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शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

2nd JUNE, 2023

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**THE PATENT OFFICE
KOLKATA, 02/06/2023**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

<p>1 Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpatm@nic.in</p>	<p>4 The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai – 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in</p> <p>❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</p>
<p>2 The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli</p>	<p>5 The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p>
<p>3 The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi – 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E-mail: delhi-patent@nic.in</p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>	<p>❖ Rest of India</p>

Website: www.ipindia.nic.in

www.patentoffice.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 02/06/2023

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in	4	पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप
2	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	5	पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स: /Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र
3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

वेबसाइट: <http://www.ipindia.nic.in>
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(PROF. (DR) UNNAT P. PANDIT)
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SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/10/2021

(21) Application No.202111048797 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTIMICROBIAL PROPERTIES OF THE BIOLOGICALLY SYNTHESIZED SILVER NANOPARTICLES FROM THE EXTRACTS OF CITRUS PSEUDOLIMON

<p>(51) International classification :A61K0009510000, A61K0009000000, A61K0008978900, C12Q0001689000, A61K0033380000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. Adesh K Saini Address of Applicant :Department of Biotechnology, MMEC, Central research Cell, MMIMSR, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, India 133207 -----</p> <p>2)Deepanjali Sharma 3)Dr. Reena V. Saini 4)Ms. Komal Shukla 5)Prof. Raju Kumar Gupta 6)Dr. Narinder Kaur 7)Mr. Shahbaz Aman 8)Mr. Hemant Joshi 9)Dr. Divya Mittal 10)Rahul Thakur 11)Prof. Vipin Saini Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. Adesh K Saini Address of Applicant :Department of Biotechnology, MMEC, Central research Cell, MMIMSR, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, India 133207 -----</p> <p>2)Deepanjali Sharma Address of Applicant :Faculty of Sciences, Shoolini University, Bajhol Solan, Himachal Pradesh 173229 -----</p> <p>3)Dr. Reena V. Saini Address of Applicant :Department of Biotechnology, MMEC, Central research Cell, MMIMSR, Maharishi Markandeshwar (Deemed to be University),Mullana, Ambala, India 133207 -----</p> <p>4)Ms. Komal Shukla Address of Applicant :Department of Chemical Engineering Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India -----</p> <p>5)Prof. Raju Kumar Gupta Address of Applicant :Department of Chemical Engineering, Department of Sustainable Energy Engineering,Center for Environmental Science and Engineering Indian Institute of Technology Kanpur, Kanpur 208016, Uttar Pradesh, India. -----</p> <p>6)Dr. Narinder Kaur Address of Applicant :Department of Microbiology, MMIMSR, Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, India 133207 -----</p> <p>7)Mr. Shahbaz Aman Address of Applicant :Department of Microbiology, MMIMSR, Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, India 133207 -----</p> <p>8)Mr. Hemant Joshi Address of Applicant :School Of Biotechnology, Jawaharlal Nehru University, New Delhi- 110 067. -----</p> <p>9)Dr. Divya Mittal Address of Applicant :Central Research Cell, MMIMSR, Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, India 133207, -----</p> <p>10)Rahul Thakur Address of Applicant :Department of Biotechnology, MMEC, Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, India 133207 -----</p> <p>11)Prof. Vipin Saini Address of Applicant :Maharishi Markandeshwar University, Sadopur, Ambala, Haryana, India. 173229 -----</p>
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(57) Abstract :

In this proposed invention we have synthesized green nanoparticles (G-NPs) by using extract of Citrus pseudolimon (UHF-Herbarium No. 13575) which act as a antibacterial agent against multiple drug resistant bacteria and Mycobacterium tuberculosis (H37Rv). Green synthesis of nanoparticles is eco-friendly, cost effective and high yielding process. Other possible solutions for the treatment of microbial infections are the use of antibiotics which have some side-effects and these are costly. Some bacterial strains show resistance to these antibiotics also. Our G-AgNPs showed antibacterial effect against multiple drug resistant bacteria and Mycobacterium tuberculosis (H37Rv).

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(22) Date of filing of Application :26/10/2021

(21) Application No.202111048798 A

(43) Publication Date : 02/06/2023

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(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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8)Mr. Hemant Joshi
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10)Rahul Thakur
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11)Prof. Vipin Saini
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(57) Abstract :
Other possible solutions for the treatment of microbial infections are the use of antibiotics which have some side-effects and these are costly. Some bacterial strains show resistance to these antibiotics also. Our G-AgNPs showed antibacterial effect against multiple drug resistant bacteria and Mycobacterium tuberculosis (H37Rv).

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/10/2021

(21) Application No.202111048799 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTIMICROBIAL PROPERTIES OF THE BIOLOGICALLY SYNTHESIZED COPPER NANOPARTICLES FROM THE EXTRACTS OF CITRUS PSEUDOLIMON

(51) International classification :A61K0009510000, B82Y0030000000, A61K0009000000, A61K0008978900, B82Y0040000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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2)Deepanjali Sharma
3)Dr. Reena V. Saini
4)Ms. Komal Shukla
5)Prof. Raju Kumar Gupta
6)Dr. Narinder Kaur
7)Mr. Shahbaz Aman
8)Mr. Hemant Joshi
9)Dr. Divya Mittal
10)Rahul Thakur
11)Prof. Vipin Saini
Name of Applicant : NA
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(72)Name of Inventor :
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Address of Applicant :Department of Biotechnology, MMEC, Central research Cell, MMIMSR, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, India 133207 -----
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11)Prof. Vipin Saini
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(57) Abstract :

In this proposed invention we have synthesized green nanoparticles (G-NPs) by using extract of Citrus pseudolimon (UHF-Herbarium No. 13575) which act as a antibacterial agent against multiple drug resistant bacteria and Mycobacterium tuberculosis (H37Rv). Green synthesis of nanoparticles is eco-friendly, cost effective and high yielding process. Other possible solutions for the treatment of microbial infections are the use of antibiotics which have some side-effects and these are costly. Some bacterial strains show resistance to these antibiotics also. Our G-AgNPs showed antibacterial effect against multiple drug resistant bacteria and Mycobacterium tuberculosis (H37Rv).

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211007497 A

(19) INDIA

(22) Date of filing of Application :12/02/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD OF PREPARATION OF MULTIPURPOSE WIRE OR SHEET USING THREE METAL COMBINATION AND PRODUCT THEREOF

(51) International classification :B22F0001000000, H01L0023000000, H01L0021020000, B21B0003000000, C22C0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Pushkar Agarwal

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Name of Applicant : NA

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(72)Name of Inventor :

1)Pushkar Agarwal

Address of Applicant :S/o Puneet Agarwal, 227, New Shivpuri, Near Gatta Factory, Hapur, Uttar Pradesh 245101 -----

(57) Abstract :

A method of preparation of a wire or a sheet by a combination of copper, gold and silver is disclosed. The method comprising covering a copper rod having a solid cylindrical section with specific weight ratio by a layer of silver and heating said copper rod covered with said silver sheet at a specific temperature in order to completely cover said silver sheet over said copper rod. The method further including applying pressure using a tool, preparing a shell of gold by melting a specific amount of gold, covering , said shell of gold melted, over said copper rod covered with said silver, heating said rod prepared to form bonds of copper, silver and gold with each other. The method also include rolling said heated rod in a rolling machine in order to form a wire or sheet of specific dimensions less than 36 units.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111042348 A

(19) INDIA

(22) Date of filing of Application :18/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : EQUI-MOVEMENT RESTRICTIVE FUNCTIONAL (ERF) DEVICE SUSPENSION FOR RAILWAY ROLLING STOCK (RRS)

(51) International classification :C07K0014415000, B61L0003000000, G06Q0040060000, C12N0015820000, B61F0005300000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

EQUI-MOVEMENT RESTRICTIVE FUNCTIONAL (ERF) DEVICE SUSPENSION FOR RAILWAY ROLLING STOCK (RRS) 5 Described herein is an Equi-movement Restrictive Functional (ERF) device 100 for railway rolling stock (RRS). The Equi-movement Restrictive Functional (ERF) device 100 comprises a plurality of members comprising a bottom member 102, a top member 104 and a central stiffening member 108 positioned between the bottom member 102 and the top member 104. The plurality of 10 members are configured in a stacked manner above one another. A vibration dampener 106 is positioned between said plurality of members. A central longitudinal member 110 is attached to the top member 104 and extends up to the central stiffening member 108 to evenly distribute pressure between the components also restrict lateral as well as longitudinal forces developed in the Equi-movement Restrictive Functional (ERF) device 100.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/06/2022

(21) Application No.202211034496 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATED STUDENT MONITORING AND ASSESSMENT SYSTEM

<p>(51) International classification :G06Q0050200000, G09B0007000000, G06T0007730000, G01R0019250000, G16H0040630000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Syed Mufassir Yaseen Address of Applicant :Assistant Professor, FEDA-E, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>2)Rydhm Beri Address of Applicant :Assistant Professor, University Institute of Computing, Chandigarh University. National Highway 95, Chandigarh-Ludhiana Highway, Mohali, Punjab - 140413, India. Phagwara -----</p> <p>3)Dr. Vikrant Sharma Address of Applicant :Dean, FEDA-E, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>4)Dr. Shama Parween Address of Applicant :Post Doctoral Fellow, Natalia Vergara's Lab, University of Colorado Anschutz Medical Campus Ophthalmology department RC1-North, P18-5401D 12800 E 19th Avenue Aurora, CO, 80045 -----</p>
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(57) Abstract :

An automated student monitoring and assessment system, comprising an interactive board installed within an enclosure that enables a teacher to conduct class for students, a microcontroller linked with an artificial intelligence based imaging unit that is installed over the board for capturing real time footages of the students during conduct of the class to monitor actions of each of the students present within enclosure during ongoing lessons, a data base of students details is linked with the microcontroller that compares the captured footage with the pre saved details in order to assign tags to the students and a cloud server module linked with the microcontroller that receives data processed by the microcontroller and sends to the server that in turn predicts the performance of each of the students and sends predicted performance of the students to the data base that is fetched by parents and/or administration/teachers for assessments.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211042288 A

(19) INDIA

(22) Date of filing of Application :23/07/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : DETECTION OF PRESSURE WAVES IN A 155MM LARGE CALIBER GUN USING INSTRUMENTATION SYSTEM

(51) International classification	:A61B0005000000, A61N0005060000, A61B0005080000, H04N0021258000, C12P0019300000	(71)Name of Applicant : 1)Ordnance Factory Kanpur Address of Applicant :Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)KASTWAR, Arun Kumar Address of Applicant :Deputy Director, Ordnance Development Cell, Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
(61) Patent of Addition to Application Number	:NA	2)GUPTA, Sunny Address of Applicant :Asstt. Director, Ordnance Development Cell, Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides for a unique device that enables study and analyzing of pressure waves inside a chamber portion of an artillery gun in ascertaining the differential pressure phenomenon. The system (110) may further include a gun unit having a barrel hold a sensor unit (108) having two or more sensors at predefined locations at the barrel. The system may receive a first set of signals pertaining to the changes differential pressure, extract a first set of attributes pertaining to a stepped or spiked rise in pressure inside the chamber coupled with negative differential pressure (NDP), determine based on the first set of attributes extracted if NDP exists which means a higher pressure at the shot base end as compared to the pressure at breech end and transmit signal details determined to the computing device (104) associated with the user (102).

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211042289 A

(19) INDIA

(22) Date of filing of Application :23/07/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : DESIGNING AN ADAPTOR FOR MOUNTING THE 105MM LFG ON 130MM M-46 CARRIAGE

(51) International classification :B29C0070480000, A61F0002040000, B67D0007020000, F02K0001720000, E04C0005160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to an artillery barrel (100) having a smaller diameter, on a gun carriage with a cradle (200) having holding arrangement for larger diameter barrels. The arrangement includes a first sleeve (102) configured with an outer surface of the artillery barrel (100) through a thread arrangement. The first sleeve (102) is configured between an outer surface of the artillery barrel (100) and a first hold-down gib (202) of the cradle (200). A second sleeve (104) is configured between the outer surface of the artillery barrel (100) and a second hold-down gib (204) of the cradle (200). One or more tie rods (106) coupled between the first sleeve (102) and the second sleeve (104) to limit a first relative motion between the first sleeve (102) and the second sleeve (104) during recoiling of the artillery barrel (100).

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211017786 A

(19) INDIA

(22) Date of filing of Application :28/03/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A METHOD FOR DETECTION OF LATENT FINGERPRINTS WITH HYDROXY BENZOTHAIAZOLE DERIVATIVE

(51) International classification	:A61B0005117200, A61B0005000000, B01J0020220000, C03C0023000000, B32B0027080000	(71)Name of Applicant : 1)Guru Nanak Dev University, Amritsar Address of Applicant :Guru Nanak Dev University, Amritsar-143005, Punjab, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Prabhpreet Singh Address of Applicant :Department of Chemistry, Guru Nanak Dev University, Amritsar -----
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(87) International Publication No	: NA	3)Poonam Sharma Address of Applicant :Department of Chemistry, Guru Nanak Dev University, Amritsar -----
(61) Patent of Addition to Application Number	:NA	4)Sanjeev Kumar Address of Applicant :Department of Chemistry, Guru Nanak Dev University, Amritsar -----
Filing Date	:NA	5)Subodh Kumar Address of Applicant :Department of Chemistry, Guru Nanak Dev University, Amritsar -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a method for the detection of latent fingerprints by employing the fluorescent powder hydroxy benzothiazole derivative. The fingerprints can be visualized and analysed under 365 nm UV lamp. The invention also discloses the method for preparation of hydroxy benzothiazole derivative. The method is suitable for detecting fingerprints on all porous and non-porous surfaces and analysis includes, indexing or ridge classification and their subclassification (level 1); minutiae details such as hook, bifurcation, bridge, delta, lake, island, crossover, ridge termination, ridge dot and eye (level 2); and sweat pores, pore shape, size and ridge width (level 3).

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031299 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COOLING SYSTEM FOR ELECTRIC MOTOR OF AN ELECTRIC VEHICLE

(51) International classification :F28D0020000000, B29C0048800000, F25D0019000000, F28D0021000000, H02K0005040000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

A cooling system (100A) for an electric motor (100B) is disclosed. The cooling system (100A) may include a fluid reservoir (102) that may be positioned on a top side of a housing (104) of the electric motor (100B). The fluid reservoir (102) may define a bottom reservoir-surface (102A) in thermal contact with a housing-surface associated with the top side of the housing (104) of the electric motor (100B). A conduit (106) may be fluidically coupled with the fluid reservoir (102) and configured to circulate the coolant fluid therethrough. The conduit (106) may envelop the housing (104) of the electric motor (100B) and define a plurality of linear pathways (106A) and a plurality of bends (106B). The plurality of bends (106B) may be positioned in proximity to extreme ends of the longitudinal length of the housing (104) of the electric motor (100B). [To be published with FIG. 1]

No. of Pages : 22 No. of Claims : 12

(54) Title of the invention : VITAMIN D2 ENHANCED MILK MIX AND THE PROCESS THEREOF

(51) International classification :A23L0007100000, A23L0019000000, A23L0025000000, A23L0033000000, A23L0002380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention, Vitamin D2 enhanced milk mix comprising of a composite flour of cereals, millets, pulses and mushrooms mixed with milk powder and nuts is also a protein and calcium rich product. It has been prepared using various techniques i.e. soaking, malting, dehydrating and roasting to increase nutrient bioavailability and shelf life without the use of preservatives. The use of foods from a variety of food groups makes this product rich in proteins, micronutrients and antioxidants. The product is prepared without the use of fat and oil as the ingredients were dry roasted. Processing techniques of dehydration and roasting, increase the shelf life by decreasing the moisture content and microbial activity. A combination of cereals and pulses has a symbiotic effect and supplements the amino acid profile of each other. Pulses are deficient in one of the amino acids (methionine) but rich in another amino acid lysine, whereas, cereals have high methionine and low lysine content. Eating pulses with cereals creates a complete protein, containing amino acids that the body cannot produce itself. Millets like ragi are one of the richest sources of calcium. Along with proteins, soybeans are a reservoir of isoflavones which are highly beneficial in managing menopausal symptoms. Mushrooms are a potential but an underutilized vegetarian source of vitamin D. The present invention was found to be highly acceptable upon sensory evaluation also. This invention aims to increase the availability of functional and convenience foods in the market. The invention can be used for any age group though they are of maximum benefit for menopausal women.

No. of Pages : 29 No. of Claims : 8

(54) Title of the invention : DMSO SOLUBLE, NON-TOXIC IRON INCORPORATED LANTHANUM BASED NANOMATERIAL AND ITS APPLICATION IN BIOMEDICAL IMAGING

(51) International classification :A61K0049000000, A61B0005000000, A61K0009107000, G01B0009020000, C08B0037080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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Address of Applicant :DR. ALOK RAGHAV SCIENTIST-C MULTIDISCIPLINARY RESEARCH UNIT, GSVM MEDICAL COLLEGE KANPUR-208002, INDIA -----

(57) Abstract :

The present invention provides DMSO soluble, nontoxic, iron incorporated Lanthanum based nanomaterial compounds for use in Magnetic Resonance Imaging (MRI) and related therapeutic imaging applications. The present invention further relates to the processes for the preparation of said novel iron incorporated Lanthanum based nanomaterial compounds. In vitro study reports 99% viability at concentration of 100 mg/ml DMSO soluble nanomaterial. The said nanomaterial compounds of the present invention are usefully employed to reduce toxicities related to conventional contrast agents.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202211027664 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : NANO FUNGICIDAL COMPOSITION AND METHOD THEREOF

<p>(51) International classification :A61K0009107000, A61K0008110000, A61P0031040000, A01N0047340000, A61K0047200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K) Address of Applicant :Shalimar, Srinagar - 190025, Jammu and Kashmir, India. Srinagar ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)BATOOL, Aneesa Address of Applicant :Department of Chemistry, Baghwant University of Ajmer, Rajasthan, India. Ajmer ----- 2)BASHIR, Saika Address of Applicant :Division of Plant Biotechnology, SKUAST-K, Srinagar, Jammu and Kashmir, India Srinagar ----- ----- 3)NAZIR, Momina Address of Applicant :Department of Chemistry, Govt. College for Women, Cluster University Srinagar, India. Srinagar ----- ----- 4)KUMAR, Gajendra Address of Applicant :Department of chemistry, Baghwant University Of Ajmer, Rajasthan, India. Ajmer ----- 5)ZARGAR, Sajad Majeed Address of Applicant :Division of Plant Biotechnology, SKUAST-K, Srinagar, Jammu and Kashmir, India Srinagar ----- -----</p>
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(57) Abstract :

ABSTRACT NANO FUNGICIDAL COMPOSITION AND METHOD THEREOF The present invention is in the field nano fungicidal composition. Particularly, the invention provides nano fungicidal based on biological sources and method of its preparation. The invention provides highly stable nanoemulsion and highly effective fungicidal composition. The nano emulsion is highly efficient, cost effective and has enhanced bioavailability. The dosage is also decreased as the active ingredient will be released slowly, thus, there is no requirement to extract huge quantities. Moreover, the nano emulsion is easily diffused, deposited and permeable on plant foliage or the surface of fungus than the crude form. The active ingredients responsible for killing of fungus is not degraded by the environmental factors as it gets encapsulated in the form of nano emulsion.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211070183 A

(19) INDIA

(22) Date of filing of Application :05/12/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : LUGGAGE STORAGE SYSTEM FOR VEHICLES

(51) International classification :G06F0003010000, E05B0065520000, B64D0011000000, G06K0007100000, H01L0023485000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A luggage storage system for vehicles, comprises of a frame 1 established over a vehicle, the frame 1 having first and second portions 2, 3 connected with each other via sliding channel 4, a tray 5 installed on sliding channel 4 to translate luggage to first or second portion, a barcode scanner 6 is integrated on tray 5 for scanning user's ticket, an artificial intelligence (AI) based imaging unit 7 mounted on tray 5 for capturing user's image, a weight sensor 8 is integrated on tray 5 for monitoring luggage's weight, a panel 9 configured with multiple slots 10 arranged on first and second portion 2, 3, a sorter conveyer 11 is integrated in between panel 9 and sliding channel 4 for sorting luggage, a rain detection sensor 12 is integrated on first portion for detecting rainfall, an extendible covering unit 13 integrated on first portion for covering panel 9.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : SECURED BANKING CARD MANAGEMENT DEVICE

<p>(51) International classification :A47K0003000000, A61J0001030000, G02C0011000000, G06Q0020300000, G02C0007100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ch. Ajay Kumar Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>2)D. Sunil Kumar Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>3)Simranjot Kaur Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

A secured banking card management device, comprising a body 2 crafted with multiple compartments 1 that allow user to store banking cards, an imaging unit 3 installed on the body 2 for capturing and processing images of the body 2, an IoT (Internet of Things) based communication module embedded with the microcontroller for transmitting the images on the people computing unit, lid 4 fabricated with body 2 for covering/uncovering mouth portion of the body 2, a motorized hinge 5 coupled between the lid 4 and body 2 for providing movement to the lid 4 to cover/uncover the mouth portion, a panel 10 mapped on body 2 for entering details regarding card, pusher 6 mounted within each of the compartments 1 for pushing card from the compartment 1 and a cutter 7 for cutting magnetic strip on the card to prevent unauthorized access of the cards.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211070185 A

(19) INDIA

(22) Date of filing of Application :05/12/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : WEARABLE STUDY ASSISTIVE DEVICE

(51) International classification :G06F0003010000, G06F0003160000, G02B0007020000, G02B0005200000, G02B0027010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A wearable study assistive device, comprises of a wearable frame 1 established to be equipped by a user over eyes, a pair of chambers 2 are mounted on the frame 1 that is stored with multiple lenses 5, an artificial intelligence based image capturing module 3 installed on the frame 1 for performing facial recognition, a pair of sliding unit 4 coupled between the lenses 5 and frame 1 for providing movement to a set of the lenses 5, a microphone 6 installed on frame 1 to enable the user to provide voice commands, a holographic projector 7 installed on frame 1 in order to illuminate a series of lights on the book for highlighting the important topics, a gaze detection sensor 8 integrated on the frame 1 for detecting point of gaze of the user, a laser light 9 for illuminating a beam of light for highlighting a lines/sentences.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : CROP MANAGEMENT DEVICE

<p>(51) International classification :G06Q0050020000, C05G0003800000, H04N0005225000, G06K0009620000, A01C0023020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)G.Shankar Reddy Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>2)K.V.S.S.Santosh Kumar Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>3)Dr. Sumit Chopra Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

The present invention relates to a crop management device comprising, a body 1 arranged with multiple wheels 2 for maneuvering the body 1 on soil grown crops, an image capturing module 3 positioned on the body 1 for detecting types of disease on the crop, multiple nozzles 4 crafted with multiple chambers 5 is configured on the body 1 for dispensing different type of pesticide over the crop, a telescopically operated rod 6 fabricated with an NPK (Nitrogen Phosphorus Potassium) sensor is assembled with the body 1 for detecting nutrient concentration of the soil, an sprinkler carved over a container 7 secured on the body 1 for dispensing fertilizer over the soil, multiple members 8 assembled on the body 1 via a slider 9 for providing to and fro movement to the members 8 for mixing the fertilizer with the soil.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070187 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : MENTAL HEALTH MONITORING SYSTEM

<p>(51) International classification :A61B0005000000, G06F0003010000, A61B0005110000, G09B0019000000, A61B0005369000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)K.Aditya Karthik Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- 2)Dr. Anurag Sharma Address of Applicant :Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- 3)Y.Manikanta Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

A mental health monitoring system, comprising of a head wearable unit 1 developed to be worn by a user while performing daily activities and installed with a primary artificial intelligence (AI) based imaging unit 8 for capturing and processing images of user to monitor activities of user along with user's facial expressions, multiple EEG (Electroencephalography) electrodes 2 for receiving brainwaves of user while performing activities, a wristband 3 fabricated with a FBG (Fiber Bragg Grating) sensor 4 for monitoring vital health parameters of user while performing activities which is saved into user's record, a computing unit 9 linked for surfing through social networking sites and locks applications for restricting user to update such posts, and a holographic projector 5 for projecting inspiration videos in front of user in order to inculcate positive thoughts within user and wipe out pessimist thought from user's mindset.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070188 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : BLOOD DONATION MANAGEMENT SYSTEM

<p>(51) International classification :G10L0015220000, A61B0005150000, A61M0001020000, G06Q0050220000, G06F0003160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Raahat Varma Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>2)Sahil Sharma Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>3)Anchal Nayyar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

A blood donation management system, comprises of a body 1 established within enclosure, a touch interactive display panel 2 is installed on body 1 to enter details, an audio unit 3 installed on body 1 to provide voice commands, a voice recognition module 4 is installed on body 1 to allow user to answer the questions, a user interface installed within computing unit to select different medical tests, a sensing module 5, 6 is integrated within body 1 to detect weight and blood-pressure of user, a scanning unit 7 installed on body 1 for scanning user's prescription report, a storage rack 8 installed within body 1 on a sliding arrangement 9 for storing various blood bags, a collection chamber 10 arranged within body 1 for collecting blood bags, a counter is installed within rack for counting number of translated bag.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070189 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATIC FOOD SERVING DEVICE

<p>(51) International classification :A47J0043280000, A63B0069400000, G07F0017000000, A47G0019020000, G09B0019000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Hardeep Singh Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>2)Dr. Anurag Sharma Address of Applicant :Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>3)Rajvir Kaur Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

An automatic food serving device, comprising a platform 1 installed over a ground surface by means of plurality of legs 2 and accessed by multiple users for eating meals, multiple display panels 3 for providing input regarding selection of food items which user wants to consume, a sorter conveyer belt 4 for storing varying kind of food items and positioning a particular vessel storing user-specified food items, a L-shaped telescopically operated rod 5 integrated by means of a motorized slider 6 to translate rod 5 towards user to position a suction cup 7 for holding vessel followed by extension/retraction of rod 5 to serve vessel to user, and a spatula 8 for enabling user to use spatula 8 for serving food item.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070190 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ACTIVITY-BASED MOOD REHABILITATION DEVICE

(51) International classification :G06F0003010000, G03H0001220000, G02B0027010000, A61B0005020500, H04N0005330000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An activity-based mood rehabilitation device, comprising a seating platform 1 attached with multiple supporting legs 2 that is accessed by a user for attaining seating posture, multiple thermal imaging unit 3 mounted on platform 1 for capturing thermal images of user as means of determining mood of user in order to decode an appropriate activity that is to be performed by user, a speaker 4 mounted on platform 1 that produce a sound regarding riddle which is solved by user, a microphone 5 fabricated on platform 1 for receiving answers provided by user while solving riddle, a holographic projection unit 6 mounted on platform 1 for projecting a holographic image on a fixed surface, and a sliding rack 7 stored with multiple balls attached on platform 1 that is accessed by user for throwing balls towards the depicted game.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : SMART TRANSLATOR AND TEXT CONVERTING DEVICE

<p>(51) International classification :B29C0045660000, B25J0005000000, A47K0007020000, G06F0040580000, G06F0040470000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Komal Sharma Address of Applicant :Department of Computer Science and Engineering, Faculty Of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>2)Dr. Vikrant Sharma Address of Applicant :Professor, Department of Electronics and Communication Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p> <p>3)Rajesh Sharma Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

The present invention relates to a smart translator and text converting device, comprising a cylindrical body 1 installed with a display panel 2 for taking user input regarding operation that user want to perform, an artificial intelligence based imaging unit 3 mounted on first portion for capturing and decoding script written over paper placed underneath the body 1 along with scrutinizing handwriting pattern of the script, multiple suction cups 4 installed within second portion by means of multiple telescopically operated pins 5 to firmly hold the tools, multiple motorized wheels 6 attached on first portion by means of multiple extendible links 7 for positioning the tool over a paper to write translated text in an user-specified language, and a motorized ball and socket joint 8 attached in between each of links 7 and first portion for tilting the body 1 with respect to the paper.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : VIRTUAL REALITY BASED ARTIFICIAL ENVIRONMENT FORMATION SYSTEM

(51) International classification :G06F0003010000, A63B0022020000, A63B0071060000, E02D0029000000, A61H0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A virtual reality based artificial environment formation system, comprises of a platform 1 established to be positioned within enclosure 2 that allows user to stand, a base 3 is attached with platform 1 for providing support to platform 1, an inverted U-shaped frame 4 coupled with wearable component 5 for securing user, a sliding arrangement 6 assembled on platform 1 and coupled with frame 4 for moving frame 4, a touch interactive display panel 7 mounted on frame 4 for entering details, an audio unit 8 configured with panel 7 to provide voice commands, a VR headset 9 attached with frame 4 to wear around forehead, multiple conveyors 10 fabricated with different terrains to allow user to walk/run, multiple electronic nozzles 11 configured with water reservoir 13 arranged on plank 12 for dispensing water, multiple circular member 14 configured with multiple leaves to rotate against user's body.

No. of Pages : 19 No. of Claims : 7

(54) Title of the invention : ANTI-MICROBIAL 3, 5- DINITROSALICYLIC ACID PHYTOCONJUGATE COMPOUNDS AND PROCESS OF PREPARATION THEREOF

<p>(51) International classification :A61K0031496000, C07D0231140000, A61P0035000000, C07D0409140000, C07D0471040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. ----- 2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)RANI, Nidhi Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. ----- 2)KAUR, Rajwinder Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. ----- 3)SINGH, Thakur Gurjeet Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. ----- 4)SINGH, Varinder Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. ----- 5)AHMAD, Md Altamash Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. ----- 6)ARORA, Rashmi Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. ----- 7)KAUR, Rupinder Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p>
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(57) Abstract :

The present disclosure generally relates to organic compounds. Specifically, the present disclosure relates to anti-microbial 3, 5-dinitrosalicylic acid phytoconjugate compounds of Formula (I), their stereoisomers, tautomers, pharmaceutically acceptable solvates or pharmaceutically acceptable salts thereof and pharmaceutical compositions comprising them.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211044061 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ADJUSTABLE PADDY SEEDER AND SIMULTANEOUS FERTILIZER APPLICATOR DEVICE

(51) International classification :A01C0005060000, A01C0007200000, A01C0007040000, A01G0022000000, A01B0049060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention comprises a precision seed-sowing machine to be used in agriculture for directly sowing the seeds in the field by ploughing, furrowing and accurately placing the seeds at the predetermined distances and the method. The combined paddy seeder and fertilizer applicator device with an equidistant planting system comprises of a frame (01), tilling blades (02) seed bin (04), plates (05), seed calculating means (06), fertilizer tank (07), gearbox (08), seed pipe (09), fertilizer pipe (010), funnel or V-shaped opening (011), Manual adjusting system, (013) flaps. The same machine simultaneously adds fertilizer also at the same location of the seed, and the number of seed and fertilizer may be adjusted as per the requirement.

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : :SYSTEM AND METHOD FOR CAREER GUIDANCE

(51) International classification :G06Q0050200000, G06Q0010100000, G09B0019000000, G06N0020000000, H04N0021440000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT TITLE: SYSTEM AND METHOD FOR CAREER GUIDANCE The present invention relates to a computer implemented system (100) and a method (600) for determining a career option recommendation for a candidate based on machine learning algorithm. The system comprises a memory unit(101), an input unit(103), one or more processing module i.e. first processing module, second processing module, third processing module and fourth processing module(105, 116, 122, 128), a visual output device (110). Further, the system evaluates a few assessment performance and determines a first career category recommendation based on orientation, a second career category recommendation based on personality, and a third career category recommendation based on aptitude for a candidate. Based on evaluation of the gradings and mapping the grading to determine the career category option for the candidate. The system finally processes, evaluates, maps one or more mapping tables and determines a top two career including a summary report of the first career category, the second career category and the third career category for the candidate. FIGs. 1 to 5 and FIG. 6

No. of Pages : 46 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211077234 A

(19) INDIA

(22) Date of filing of Application :30/12/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GROOVE LAPPING TOOL FOR HELICAL RIFLING PROFILE (9°54') OF 120MM GUN BARRELS

(51) International classification :B24B0033080000, B24B0033020000, B24B0037020000, B24B0033100000, A47J0037060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present disclosure relates to a groove lapping tool adapted for groove lapping in a 120mm bore size barrel and rifled grooves in helix of 9054'. The groove lapping tool includes a groove honing grill having a plurality of serrations. A plurality of honing stones configured with the plurality of serrations such that at least one honing stone of the plurality of honing stones is carried by each of the plurality of serrations. A groove lapping head configured to have the groove honing grill thereon. The groove lapping head with the groove honing grill is configured to be inserted inside the 120mm bore size barrel for lapping grooves therein.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311001612 A

(19) INDIA

(22) Date of filing of Application :08/01/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM TO PERFORM VEHICULAR COMMUNICATION

(51) International classification :H04W0084180000, H04W0072040000, H04J0013000000, H04W0004440000, H04L0067120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Nowadays, Vehicular Communication System (VCS) is developing for the cooperative engagement of Vehicle Nodes and Vehicle Associated Nodes (like mobile, laptop and other electronic equipment) with the required intervention of Vehicle Nodes (VNs), Cluster Head Unit (CHU), Road Side Unit (RSU), and Infrastructure Domain Unit (IDU). These all units are providing excellent performance with help of Vehicular Ad-hoc Network (VANET), Machine Learning, IoT, and 5G Technologies. Out of all these units, for the intellectual performance enhancement of CHU, a Cluster Head Vehicular Algorithm (CHVA) is proposed in this work. This CHVA is responsible to control the congestion of communicating data fragments at CH Node. In this work, first of all, the communicating data fragments are filtered to reduce redundant data fragments on the basis of channel utilization level identification. Then gathered data fragments are used in CHVA for clustering. Resultantly, the parameters are determined by the CHVA algorithm and used by the CHU to increase control of data fragments in channel. Comparative study proves the performance of the CHU is enhanced by the proposed work in comparison with the existing work.

No. of Pages : 9 No. of Claims : 1

(54) Title of the invention : A SECURE AND TRUSTED AUTHORIZATION FORTIFIED MEAL DELIVERY BOX WITH ADJUSTABLE SIZE

<p>(51) International classification :G06Q0050120000, A01K0005020000, A45C0011200000, G06Q0030000000, B65D0081380000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima College of Engineering, Jaipur Address of Applicant :Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Manish Choubisa Address of Applicant :Assistant Professor, Department of Computer Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p> <p>2)Mr. Manish Dubey Address of Applicant :Assistant Professor, Department of Computer Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p> <p>3)Dr. Surendra Kumar Yadav Address of Applicant :Professor, Department of Computer Science and Engineering, JECRC University, Jaipur, Rajasthan, India, 303905 Jaipur -</p> <p>4)Dr. Kamlesh Gautam Address of Applicant :Assistant Professor, Department of Computer Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p> <p>5)Dr. Gajendra Singh Rajawat Address of Applicant :Professor, Department of Information Technology, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p>
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(57) Abstract :

Many times, during the delivery of food from restaurant to the customers place it is found that the customer has not received the quality food, the food seems to be unhygienic and quantity of the food is not up to the mark as was mentioned in the menu due to the two cases, first the delivery boy has done some cheating in middle of the way or in second case the restaurant has done some cheating. Also, one of the most prominent disadvantages associated with prior art delivery boxes is their inefficient use of space. The large food packets inefficiently occupy significantly more space in the box than is needed. In these cases, the food delivery aggregators such as Swiggy, Zomato, Uber Eats, etc has to face the customer bad feedback which somehow effect the overall image and rating of the company. Hence, the present invention has been made which is an advanced meal delivery box and characterized as to adjustable to the quantity of the food delivered and further, the smart meal box has alert security system implementing OTP authentication to open or close the box. Since the box is adjustable it has three locks for three partitions of the box. Each partition has its own lock system. In this whole system a keypad is attached through which the 4-digit OTP pin will be entered for the security. Message system is also implemented for the following scenarios, first if the delivery person attempts to open the box entering the wrong OTP, the message will be sent immediately to the customer informing him/her about the security breach. Second if any other person tries to open the box several times, then the message will be sent for all the number of times the wrong OTP is entered. The whole delivery process from the restaurant location to the client location will be monitored by the GPS system. The message (the box is locked) and location will be sent to the customer. The design of the delivery box will be such that it can be adjusted according to the quantity of the food to be delivered. This meal box is just a small step to generate trust between the customer and the delivery aggregators.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/01/2023

(21) Application No.202311001614 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MULTI-AGENT ARCHITECTURE USEFUL IN MULTIPLE MONITORING OF PATIENT'S PHYSIOLOGICAL PARAMETERS

		(71)Name of Applicant : 1)Poornima College of Engineering, Jaipur Address of Applicant :Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur ----- Name of Applicant : NA Address of Applicant : NA
		(72)Name of Inventor : 1)Mr. Devendra Somwanshi Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur ----- 2)Mr. Kalpit Jain Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur ----- 3)Mr. Ravindra Panchariya Address of Applicant :Assistant Professor Engineering College Bikaner, Pugal Rd, Karni Industrial Area, Bikaner, Rajasthan 334004 Jaipur ----- 4)Dr. Payal Bansal Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----
(51) International classification	:A61B 5/00, G16Y 10/60	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Remote health monitoring is a wide area to be research and demanding area for current COVID-19 Pandemic situations. Though a number of Architecture are proposed for health monitoring in remote conditions, but a very few architectures are available which monitor many attributes in parallel. In these kind of architectures multi agent architectures are used but again there are many drawbacks or not feasible to monitor many attributes in parallel. This invention is an attempt to monitor the several attributes of patients in parallel which are situated remotely based on multi agent architecture. To validate the proposed architecture, different attributes were collected through sensors with continuously monitored by several software agents and tested with multiple combinations or parameters, patients and software agents. The result of this attempt proved that further more can be developed on the basis of this architecture and it may be useful for efficient and rapid surveillance of patients even in current pandemic situations.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/01/2023

(21) Application No.202311001615 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PROCESS FOR REDUCTION IN THE SHRINKAGE OF THE PRODUCT

(51) International classification :B29C0045000000, B29C0045760000, B29C0045780000, B29C0045770000, B29C0045270000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Plastic injection molding is an important process which is useful for developing plastic parts. Many defects are found in plastic parts which may affect the quality of plastic products. Input parameters always play dominate role in improvement of quality of plastic parts. In this study mold temperature, melt temperature, injection speed, injection pressure & packing pressure are considered as input parameters to control volumetric shrinkage & fill time as response of injection molded parts to improve the quality of plastic parts. In this study, Mold Flow Adviser (MFA) is used to study & verify the effect of process parameters and optimize the volumetric shrinkage and fill time. Optimization of process parameters is done using design of experiments (DOE) and analysis of variance (ANOVA). Optimum combination of process parameters is governed by signal to noise (S/N) ratio and analysis of variance (ANOVA). Two different combinations of sprue and runner system are used for simulation. Signal to noise ratio and analysis of variance shows that packing pressure is most significant variable for volumetric shrinkage in both of the cases. Regression model equations for volumetric shrinkage & fill time are also generated in this study. It will help small scale industries (SSI's) in improving quality of an injection molded plastic parts.

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : SECURITY SYSTEM USING ESP32 CAM AND LASER

<p>(51) International classification :H04W0004700000, H04L0067125000, H04W0084120000, H04W0088080000, H04W0088040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to :NA Application Number :NA Filing Date :NA</p> <p>(62) Divisional to :NA Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima College of Engineering, Jaipur Address of Applicant :Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Payal Bansal Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p> <p>2)Mr. Devendra Kumar Somwanshi Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, 302022 Jaipur -----</p> <p>3)Mr. Ravindra Panchariya Address of Applicant :Assistant Professor Engineering College Bikaner, Pugal Rd, Karni Industrial Area, Bikaner, Rajasthan 334004 Jaipur -----</p>
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(57) Abstract :

A relay panel as well as ESP32cam controllers both are essential devices. Since every component has a WiFi connection to the internet, the system can be considered IOT. The ESP32CAM Node MCU module will be used in the IOT project's wireless earth care system, which will inform owners when individuals stand at the door and take photographs. If someone is recognized, a notification will be sent to the owner and the door will automatically unlock. The ESP32 camera and Blynk application are used as its main components, together with a relay board with 4 or 8 relays. Since every component is connected to the internet via WiFi, this method falls under the IOT. Furthermore, the ESP32 cam's input and output pins are extended using the 74HC595 register IC. The Internet of Things (IOT) is an environment where actual objects are linked into the internet.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : NEURAL NETWORK-BASED ESTIMATION FOR GAIT PHASES OF ABOVE KNEE PROSTHESIS

(51) International classification :A61B 5/11, A61F 2/60, A61F 2/64, A61F 2/70, G06N 20/00, G06N 3/08, G06N 3/084

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

The motions of the knee joints in above-knee prosthesis, which are passive devices with unchanging mechanical properties, are not the same as those of normal people. Active-type prostheses, however, can enhance swing phase. The inertial measurement system, which includes accelerometers and gyroscope-like gadgets, is used to perform direct motion measurement through the microcontroller, and real-time analysis states that embedded ANN based approach performs marginally better in comparison with the rule based algorithm and has the advantage of being easily-scalable, thus able to accommodate additional input parameters taking the microcontroller into consideration. A detailed literature survey is carried out regarding above knee prosthesis in addition to neural network method. It is observed that many researcher focus on using microcontroller based Neuromuscular approach for control of gait phase and its analysis. In this project work the idea about to control the gait phases using ARM7 microcontroller is used. Power HD AR1201 Metal Gear Servo motor is interfaced with LM317T which is adjustable voltage regulator. This servo motor can produce 13.5 kg/cm torque by using 6V DC power supply and rotate through 180 degree. A mechanical leg system or an assembly is properly designed in such a way that patient will feel comfort movement using this assembly. An error may be considered depending on patient's comfort level which will be corrected by proper training of neural network based motor control system. In Proposed method, for regulating different factors, such as motion and torque needed when using a prosthetic limb, a rule base quantization and an ANN based system are preferred. Semiactive knee prosthesis powered by a microcontroller can adapt to patient needs and external factors like whether they are taken into account. A plan is put forth to measure the experimental setting in which gait data is gathered in order to modify the gait phase. The inertial measurement system consist of simple switches which gives information of patient satisfaction and road condition. Simple switches may be replaced by gyroscope and other sensors which may read mind data. Collected information is processed through microcontroller using artificial neural network.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : A SMART LADY E-WEARABLE SECURITY SYSTEM

(51) International classification :G06Q 50/26, G08B 21/02, G08B 25/10, G08B 25/12, G16Y 20/10, H04W 4/02, H04W 4/90

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

The Women's Guard is a wearable active device used to save the lives of ladies. One of the most important applications of these devices is to help working women and college-going girls. So, for the safety of women, we are thinking about designing such a device so that the woman can get help from the police department and her family too. Women's security is still a big issue in our society. Women in rural Rajasthan are very hard-working; they spend their days on farms and also manage household stuff. To provide safety for women, wearing the ornament worn by them could be modified with our suggested design named Borla. This has an E-wearable security system so women on fields would not be afraid of any emergency as the location is traceable. The device will contain e-components like GSM, GPS, Camera module, etc. The whole design will be coded in the IC ATmega328p. The main scope of this research is to design a prototype of a light, wearable women's safety device to wear at work and also to look like Jewellery. For this, we have proposed e-components to work simultaneously and to perform not only to save a life but also to arrest the culprit. This idea proposes to provide an efficient, lightweight, and cost-effective device which is available for all females. The design will be in a shape of a BORLA, a Rajasthani traditional wearing and the components will be fitted in that Borla. Now we can trace the face of the culprit, and the location of the girl, and the location will be shared with the known ones and the nearest police station.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211070198 A

(19) INDIA

(22) Date of filing of Application :05/12/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : POPULATION CENSUS DATA UPDATION SYSTEM

<p>(51) International classification :G06K0019077000, G10L0015300000, G07C0009000000, H04W0076100000, G08C0017020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Syed Mufassir Yaseen Address of Applicant :Assistant Professor, Faculty of Engineering, Design & Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- 2)Dr. Mohsina Mushtaq Address of Applicant :Assistant Professor, Faculty of Veterinary Sciences and Animal Husbandry, Shuhama Alusteng, Srinagar-190006, India. Srinagar ----- 3)Dr. Syed Irfan Yaqoob Address of Applicant :Assistant Professor, School of Computer Science under Faculty of Engineering and Technology, MIT (World Peace University), Pune, India. Pune ----- 4)Dr. Anil Pandit Address of Applicant :Assistant Professor, Faculty of Computational Science, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----</p>
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(57) Abstract :

A population census data updation system, comprising a body attached with a keypad that is accessed by a user to enter a unique identification code assigned by a concerned authorities, a control unit installed within the body receives and process the entered code in order to activates a long range module associated with the body to transmit fetched data, a communication module associated with the system that establishes wireless connection between control unit and a secured gateway for receiving fetched data in order to retrieve information regarding user's family details from cloud sever via light weight blockchain protocol, a touch enabled screen installed on body displays retrieve information regarding user's family details.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : A METHOD FOR SIMULTANEOUS ISOLATION AND IDENTIFICATION OF BENZOCARBAZOLES AND BENZO[B]NAPHTHOTHIOPHENES

(51) International classification :C02F 1/40, C10G 25/00,
G01N 33/28
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

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(57) Abstract :

A method for simultaneous isolation and identification of benzocarbazoles and benzo[b]naphthothiophenes is provided. The method comprises the steps of introducing an analyte to a chromatographic column having a stationary phase comprising alumina and silica. The analyte is eluted with a first mobile phase, a second mobile phase and a third mobile phase successively. One or more compounds eluted from the analyte through the chromatographic column is collected. Eluted NSO compounds are enriched with benzocarbazoles and benzo[b]naphthothiophenes. The first mobile phase is petroleum ether with a boiling point of 40-60°C, the second mobile phase is benzene, and the third mobile phase is a mixture of dichloromethane and methanol in a ratio of 20:80 % v/v.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311010010 A

(19) INDIA

(22) Date of filing of Application :15/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SOLAR PHOTOVOLTAIC THERMAL (PV/T) HYBRID WATER COLLECTOR SYSTEM

(51) International classification	:F24J 2/00, H01L 31/058, H02S 10/30, H02S 40/30, H02S 40/40, H02S 40/44	(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -----
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Filing Date	:NA	3)Dr Yashpal
(87) International Publication No	: NA	4)Dr JK Purohit
(61) Patent of Addition to Application Number	:NA	Name of Applicant : NA
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(57) Abstract :

The electrical conversion efficiency of solar cell is in the range of 6–15%, depending on type solar-cell at standard temperature and pressure. We are getting two form of energy from sun i.e. light and heat. When a solar radiation incident on the panel it generate electricity and 75-80% of the absorbed radiation is dissipated in the form of heat to the surrounding after photovoltaic conversion. High solar irradiation increases the electrical conversion efficiency but also increases the temperature of panel. With increase of 1 OC in temperature there is reduction of the photoelectric conversion efficiency by 0.5%. A photovoltaic/thermal (PV/T) hybrid system is a combination of photovoltaic and solar thermal system. The solar PV/T system is an integrated system which can produce both electricity and heat simultaneously. A PV/T collector consists of a PV module on the back of which an absorber plate and tubes are attached. The purpose of the absorber is to absorbs the heat the PV module and cool it. Thus improving its electrical performance and secondly to collect the thermal energy produced. In this work, performance evaluation of PV/T hybrid water collector is evaluated and compared with the solar PV system. An attempt has been made for evaluating electrical and photovoltaic conversion efficiency. The experiments were carried out in the environment conditions at Poornima University, Jaipur for varying mass flow rate between 0.002 to 0.004 kg/sec. It was found that the average electrical efficiency was in the range of 5% to 8 %, the average thermal efficiency was in the range of 50% to 62%, the average overall efficiency was found to be in the range of 56% to 68%. The collected thermal energy may be used for low temperature applications.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311001619 A

(19) INDIA

(22) Date of filing of Application :08/01/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM OF DESIGNING A MONITORING AND CONTROL EARTH PIT UNIT

(51) International classification :G01N 33/24, G01R 27/20, G05B 11/06, G05B 13/02, H01R 4/66
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A prototype model developed is novel unit to monitor and control of earth resistance which require to protect human being in addition to the most precise testing equipment at government and public sector. The prototype model consists of controller unit which monitor various earth/physical parameter such as soil moisture and humidity, the parameter which are responsible for earth resistance. Research study indicates that many of organization in government sector and public sector are interested to remotely monitor the earth resistance and in some extent the researcher also tries up to monitoring level. This invention is extended version of this to add the features of monitoring and control of earth resistance by introducing various communicating signal through microcontroller. All physical parameters are controlled to achieve the appropriate earth resistance. This invention useful for all kinds of industries, organizations who are in need of appropriate earth resistance for their human safety in addition to equipment functioning in proper way during testing operations.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311004404 A

(19) INDIA

(22) Date of filing of Application :23/01/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL SYSTEM FOR EARLY DETECTION OF SNOW SLIDING USING DEEP LEARNING AND IOT PLATFORMS

<p>(51) International classification :G06N0003080000, G06N0003040000, G06N0020000000, G06F0003034600, G08B0027000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Lovely Professional University Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SINGH, Arunoday Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>2)KUAMR, Amarjeet Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>3)AFAQ, Yasir Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p>
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(57) Abstract :

The present invention provides a solution using modern technology based on deep learning and IoT-platform for detecting snow sliding in hilly areas by using motion sensors, LoRa radio for communication, a vision-based module, and a sensor module. The system uses a deep learning algorithm for determining and predicting the snow slide based on the local module with a vision module and upon detection, the system sends alerts to the competent authority for notifying the imminent threat of the snow slide. The sensor module comprises the infrasound sensor array, which is arranged in different positions on the hill to detect snow slide movement based on the motion and sound of the snow motion and sends alerts to the locally based edge device via LoRa communication. The LoRa communication ensures that alerts are transmitted quickly and efficiently. The sensor module is designed to detect potential snow slides and provide alerts to the authorities.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311005989 A

(19) INDIA

(22) Date of filing of Application :30/01/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A POVIDONE IODINE NASAL SOLUTION COMPOSITION, PREPARATION, AND STABILIZATION THEREOF

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(51) International classification	:A61K 31/79, A61K 33/18, A61K 9/00	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A formulation of a nasal solution for topical use in nasal cavity having a Povidone Iodine composition, preparation and stabilization of aqueous, isotonic, nasal solution. Also a unique manufacturing process for the preparation of stable, standardized, aqueous, isotonic, nasal solution for topical use in the nasal cavity in the form of drops or spray.

No. of Pages : 29 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/02/2023

(21) Application No.202311009950 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANALYSIS OF FLEXIBLE PEROVSKITE SOLAR CELLS WITH EVALUATING THEIR EFFICIENCY, OPERATIONAL STABILITY AND MECHANICAL RELIABILITY

(51) International classification :A61K0045060000, G06Q0050200000, A61P0025280000, A61B0005160000, A61P0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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10)Dr. Ankur Kukreti
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(57) Abstract :
Analysis of flexible perovskite solar cell with evaluating their efficiency, operational stability and mechanical reliability is the proposed invention. The proposed invention aims at understanding the pros and cons of perovskite solar cells using algorithms of Deep Learning. The invention aims at studying and evaluating their efficiency in terms of efficiency, operational stability and mechanical properties.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2023

(21) Application No.202311010011 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN INVENTION IN E-COMMERCE INDUSTRY BY BRINGING FOOD, TEXTILE AND REAL ESTATE UNDER ONE PLATFORM BY RKM

<p>(51) International classification :G06Q0030060000, G06Q0050160000, E04H0001000000, G06N0005000000, E04H0001020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -----</p> <p>2)Mr. Milan Vats 3)Dr. Indrajit Ghosal 4)Nikita Sharma Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Milan Vats Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p> <p>2)Dr. Indrajit Ghosal Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p> <p>3)Nikita Sharma Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p>
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(57) Abstract :

This invention focuses on the growth of E-Commerce Industry to uniquely identify by RKM under one channel to accommodate a person's everyday demands. It is an online store operated by RKM that offers food items, clothing and related accessories, and real estate or properties all in one place. RKM is designed and developed over the technology of website development using the technologies like HTML, CSS, JavaScript, Bootstrap to provide an effective user interface to the candidates. Secondly, the website or the idea is to provide the facility of the basic amenities of living of an individual under the one roof in and affordable price. One can easily book or buy the services i.e one can buy food (basic meal necessary for the living of an individual), Textile (clothes and related accessories), Real Estate industry (to have property, plots, rental rooms for living). In today's era, everyone wants to have a simplified platform that can provide the daily living amenities of individual to fulfill them. By means of RKM we are providing all the basic needs that is Food (food), Textile (Clothes and Accessories), Real Estate (Real estate or houses) to them by just an single click. RKM is going to be one of the leader in the e-commerce industry which is providing all the things at one place, thus becoming one of the best and quality leader in the industry. A primary object of embodiments of the present invention is to help the individual to have the best quality living amenities for living at best price. Another object of the present invention is create a user effective interface for the e-commerce platform having capacity to provide or capture the 3 larges sectors of the industry i.e FMCG , Real Estate and Textile under the one roof .

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2023

(21) Application No.202311010012 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : IMPROVED PERFORMANCE OF HUMAN EMOTION DETECTION USING ECG SIGNAL PROCESSING

(51) International classification	:A61B0005000000, A61B0005160000, A61B0005020500, A61B0005180000, A61B0005318000	(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- 2)Dr. Vivek Upadhyaya 3)Dr. Nand Kishor Gupta 4)Mr. Surendra Sharma 5)Dr. Sunil Kumar Gupta Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Large amounts of attention have been paid to the modelling and recognition of emotions, particularly in the fields of psychology, cognitive science, and, increasingly, engineering. Physiological signals have been studied much less than behavioural modalities. Here, the ECG signal is introduced, and its psychological implications are thoroughly explored. Due to its recognition as a biometric feature, this signal necessitates the development of subject-dependent emotion recognizers capable of detecting even the slightest deviation from the signal's homeostatic baseline. The purpose of this study is to improve the accuracy of emotion detection by employing ECG signals. In order to speed up processing and improve classification accuracy, we provide the EMPD (Ensemble Pragmatic Mode Decomposition) method.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311010013 A

(19) INDIA

(22) Date of filing of Application :15/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : STUDY OF TEMPERATURE DEPENDENT DIELECTRIC RELAXATION STUDIES OF 4-BROMOACETANILIDE IN DILUTE SOLUTION OF CARBON TETRACHLORIDE

(51) International classification :G01R0033500000, G06T0007000000, G01N0022000000, G01N0021410000, B29C0055140000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

The aim of this investigation is to find the changes in dielectric parameters of 4-Bromoacetanilide in dilute solution of carbon tetrachloride with temperature variation at a fixed frequency of 9.27 GHz. The investigation are being done for five different mole fractions of 4-Bromoacetanilide in the microwave region. The values of dielectric constant (e') and dielectric loss (e'') are determined by using Heston et al. method. Permittivity at a static frequency (e0) and at an optical frequency (e8) is calculated with the help of dipole meter and Abbe's refractometer, respectively. Higasi's method is used to calculate the values of relaxation times (t0, t1 and t2). From these values, it is found that the relaxation time decreases systematically with the increase in temperature. The fall of t2 with the increase in temperature has been observed to be more remarkable in comparison to the value of t1. It indicates that the rate of falls of the relaxation time related to intramolecular rotation with temperature is faster as compared to the internal group rotation.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311010000 A

(19) INDIA

(22) Date of filing of Application :15/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : COUNTRY STYLE BASIL INFUSED FOX NUT SOUP

(51) International classification :G06Q0050120000, A23L0023000000, A23L0027100000, A23L0027400000, A23L0027300000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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2)Chef Hemant Kumar
Name of Applicant : NA
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Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --

(57) Abstract :

The key goal of the current development is to add on a new nutritionally rich dish to the FOOD INDUSTRY. India being traditionally a vegetarian country. In India, these Lotus seeds are commonly referred to as Makhana. Usually, people consume it during their fasts or even use it as an ingredient in Indian cuisines or sweet dishes. However, not many people are aware of its health benefits and nutritional value. It is a recommended dietary supplement and is easily available in the market. Fox nut is the best vegetarian substitute not just in terms of TASTE & TEXTURE but also in terms of NUTRITIONAL VALUE. This will be helpful for the Industry Chefs learning & enhancement of skills. Fox Nut (MAKHANA) appetizer COUNTRY STYLE BASIL INFUSED FOX NUT SOUP which is- Healthy Basil flavour creamy fox nut soup And introduction of this dish in worldwide hotels will add glow to the Menu, and Food lovers will get a new creative dish to analyze. This is a new version of fox nut (Makhana) use as a appetizer soup a mouthwatering appetizer, This dish will be a brilliant in texture and subtle in flavor which just floods your mouth with its freshness, and the creamy and velvety texture of fox nut and milk adds value to the overall experience.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : ENHANCED SAFETY SYSTEM FOR PEOPLE USING RASPBERRY PIE

<p>(51) International classification :G08B0025010000, G06F0009448000, G06Q0090000000, H04L0067520000, A45B0003000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- ----- 2)Anuj Kumar Vishwakarma 3)Saurabh Verma 4)Dr. Deepika Saxena 5)Mohit Kumar Vishwakarma Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Anuj Kumar Vishwakarma Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 2)Saurabh Verma Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 3)Dr. Deepika Saxena Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 4)Mohit Kumar Vishwakarma Address of Applicant :Oriental college of technology ----- -----</p>
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(57) Abstract :

Nowadays, non-public protection has emerged as a prime difficulty for anybody, however crucial for each guy & woman. Girls have endured carnal harassment nowadays that's surprising each day. The conditions are much worse in developing countries. People's safety is an hour-length necessity in recent times. In these developing countries, there are numerous instances of violence against women & girls. Important safety for girls & women needs to no longer be domestic, outdoor, or of their place of business. In this research document, a trial is performed to make a smart gadget that can assist ladies if they experience danger. Girls can get quick aid and better protection by using pressing the emergency button on the gadget. In the occurrence of an incident place, this gadget can hint at the area of the person in real time and ship it to the closest police container & volunteers. The person can discover a cozy nearby using this gadget as nicely. In addition, this gadget works in offline and online modes. Whether the internet is available or not available, the person can nonetheless use the gadget to access the closest police containers and volunteers for assistance. The gadget includes Bluetooth, GPS, GSM, Raspberry pie, and so forth. The sum of a majority of these functions collectively makes this gadget low-cost and clean to navigate.

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : AN INVENTION IN EDUCATION TECHNOLOGY TO GIVE INDUSTRIAL TRAININGS VIA EDTECH WEBSITE- CODETEC/IVISIONLEARNING

<p>(51) International classification :G06Q0050200000, G06F0008380000, G06Q0010100000, G06F0008340000, G09B0019000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -----</p> <p>2)Mr. Milan Vats 3)Dr. Indrajit Ghosal 4)Ms. Neha Jain 5)Ms. Suchita Arora Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Milan Vats Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p> <p>2)Dr. Indrajit Ghosal Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p> <p>3)Ms. Neha Jain Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p> <p>4)Ms. Suchita Arora Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura --</p>
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(57) Abstract :

This invention is about the development of the edtech technology used to provide the industrial training including technical or non-technical courses to the college as well as other scholars. The technology is available in the form of website with the domain ivisionlearning.com so as to give an interface to interact with to start the training with . Ivision Learning is designed and developed over the technology of website development using the technologies like HTML, CSS, JavaScript , Bootstrap to provide an effective user interface to the candidates. Secondly, the website or the idea is to provide the training with the help of industrial trainers to train the students in the various fields of technical or non-technical courses. The Training criteria was meant on the method that there will be the evaluation test for the training to provide the certificates to the candidates so as to be a best fit candidates for the industry. The training modules will be designed with the latest pattern or requirement in the industry. A primary object of embodiments of the present invention is to help the individual candidate to have the best quality industrial training to them to be the best fit candidate for the industry. Another object of the present invention is to create a user effective interface for the industrial training to give industrial training in an cost effective manner as compared to other platform.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : MODEL FOR DRIVERS TO ENERGY EFFICIENCY IN RECYCLED PAPER INDUSTRY IN INDIA

<p>(51) International classification :G06F0017160000, G09B0019000000, C10G0045580000, D21C0011120000, G06Q0010060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- ----- 2)Dr Anand Narhari Sonsale 3)Dr Yashpal 4)Dr S D Pohekar 5)Dr JK Purohit Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Anand Narhari Sonsale Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 2)Dr Yashpal Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 3)Dr S D Pohekar Address of Applicant :Symbiosis International University ----- ----- 4)Dr JK Purohit Address of Applicant :Banasthali Vidyapith -----</p>
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(57) Abstract :

Paper and pulp industry is one of the top six energy intensive industries in India. Various studies have alluded to certain factors that act as drivers that support the implementation of energy efficiency measures. The present study has examined such drivers to energy efficiency as applicable to recycled paper and pulp industry in India. The study has developed a conceptual model to pinpoint the drivers that are significantly important using interpretive structural modelling and develop a hierarchy to investigate the contextual relationship among these rivers. Results of this study show that the presence of a dedicated energy manager, education, skill levels and motivation of employees and investment costs and payback times are the most important drivers that would drive all other drivers. The study has also performed cross impact matrix multiplication applied to a classification (MICMAC) analysis of the drivers to classify them based on the dispersal of their driving power and dependence power. It brings out top management commitment, ambition and involvement; investment and payback time as independent drivers having strong driving power but weak dependence power. Making use of these drivers would be the key to success for implementation of energy efficiency measures by any organization.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : MODEL FOR BARRIERS TO ENERGY EFFICIENCY IN RECYCLED PAPER INDUSTRY IN INDIA

<p>(51) International classification :G06Q0010060000, G06F0017160000, D21D0005160000, H04L0051226000, E01F0015080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- ----- 2)Dr Anand Narhari Sonsale 3)Dr Yashpal 4)Dr SD Pohekar 5)Dr JK Purohit Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Anand Narhari Sonsale Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 2)Dr Yashpal Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 3)Dr SD Pohekar Address of Applicant :Symbiosis International University ----- ----- 4)Dr JK Purohit Address of Applicant :Banasthali Vidyapith -----</p>
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(57) Abstract :

Paper industry is an important industry spread across the country. It is also one of the top six energy consuming industries. Even then, available energy efficiency measures face certain barriers to their implementation. This study examines such barriers to energy efficiency in the context of recycled Paper and Pulp industry in India. 15 Barriers have been shortlisted as important and relevant for Indian paper industry and prioritized into a conceptual model that classifies them into a structured hierarchy in the order of their importance and priority. The study has pinpointed the barriers that are relevant and important by application of the interpretive structural modelling approach. The identified hierarchy brings out the contextual relationship among these barriers. As a result of this study, it is seen that Poor Information Quality regarding Energy Conservation Measures and Technical Risks are the most important barriers that would drive all other barriers. The researchers have also applied cross impact matrix multiplication applied to a classification (MICMAC) analysis to the identified barriers. This analysis classifies the identified barriers according to the dispersal of their individual driving power and dependence power. It brings out Poor Information Quality regarding Energy Conservation Measures, Uncertainty about future energy prices and fiscal policies, Uncertainties regarding hidden costs and technical risks as independent barriers having strong driving power but weak dependence power. The resultant Interpretive structural model classifies the barriers to energy efficiency in their order of importance. Addressing these barriers would enable the concerned organization for implementing energy efficiency measures by any organization.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311010014 A

(19) INDIA

(22) Date of filing of Application :15/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DIFFERENT TYPES OF FUNCTIONAL RESPONSES CONTRIBUTE TO CHANGE IN DYNAMICAL BEHAVIOUR OF THE TEMPORAL AND SPATIAL PHYTOPLANKTON SYSTEM

(51) International classification :G16B0020000000, G06N0007000000, G06Q0050260000, H04N0021450000, A61K0047590000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

The dynamics are investigated in terms of local stability using both the response function for the systems and the definition of the Hopf -bifurcation, which has been demonstrated to occur in the Holling type-II functional response using the half-saturation time (i.e. a) as the bifurcation parameter. We observed that the system's dynamical behavior is affected by the response functions and the system is more stable in the case of the ratio-dependent functional response. The system behaviors to both types of response functions are studied numerically in the temporal and spatiotemporal domain (i.e., pattern formation in the diffusive population). Numerical simulation is used to examine the results.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311010015 A

(19) INDIA

(22) Date of filing of Application :15/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PLANKTON DYNAMICS IN THE SPATIOTEMPORAL DOMAIN AND THE INFLUENCE OF DISSOLVED OXYGEN

(51) International classification :G01N0021640000, G06F0111100000, G16H0050500000, A01K0061200000, G06N0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A mathematical model is proposed to study the role of dissolved oxygen in the plankton ecosystem in the spatiotemporal domain, considering one non-living compartment, i.e., dissolved oxygen, and two living compartments, i.e., phytoplankton and zooplankton populations with Holling type II response function for the harvesting rate of phytoplankton by zooplankton population. In the temporal system, the local stability analysis of all the feasible equilibria is studied, and also explored the existence of Hopf-bifurcation for the interior equilibrium is, taking the growth rate of phytoplankton as the bifurcation parameter. Further, the direction of Hopf-bifurcation and stability of the bifurcating periodic solutions are presented using normal form theory. In spatial system, we have obtained the condition for diffusion-driven instability and obtained different types of spatial patterns with different step sizes in time. Furthermore, conducted a higher-order stability analysis of the spatiotemporal dynamics. Finally, numerical simulation is given in support of the analytic results for both temporal and spatiotemporal domains.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : SYSTEMATIC APPROACH TO PREDICT THE ROLES AND RESEARCH OF ARTIFICIAL INTELLIGENCE IN MATHEMATICS

(51) International classification :G06N0020000000, G06F0016332000, G06N0007000000, G06N0005040000, A63F0013670000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An artificial intelligence adversary red team simulator configured to pentest one or more defenses implemented by a cyber threat defense system. Based on the interactions between the student and the online lesson plan, determining, by the ai engine, whether to dynamically modify the online lesson plan. Applying the input state data to the ai model to determine a predicted degree of success for the gameplay. Extracting each mathematical exercise representation to identify one or more mathematical concepts. Training the ai model to play a scenario of the video game using the training state data. Reading voice data, preprocessing the voice data, and performing signal enhancement on all voices. Data management, to be recombined by one or more in the described first information, described second information, described natural language, and described mathematical formulae, and the information stored after the restructuring is as recombination data. Information input, to receive the data splitting of input, described data splitting is combined by natural language and mathematical formulae and forms.

No. of Pages : 17 No. of Claims : 1

(54) Title of the invention : RAJASTHANI DISH KUDAT DAL DOKHLI (FOOD) FOR WINTERS PROVIDING WARMTH TO THE BODY

<p>(51) International classification :A61K0036185000, A61K0049000000, A61P0009000000, A23L0033105000, A61K0047440000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- ----- 2)Mr. Krishan Kant Parihar 3)Chef Gajraj Singh 4)Mr. Sunil Bhargava Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Krishan Kant Parihar Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 2)Chef Gajraj Singh Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 3)Mr. Sunil Bhargava Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- -----</p>
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(57) Abstract :

Any type of Dal (LENTIL) added to it dhokli is healthy because they are rich in protein. Horse gram is a great source of many key nutrients like other legumes, it's especially high in protein and fiber, both of which may support healthy blood sugar levels and decrease appetite While B- Complex perfects this flaw, horse grams the best carrier of it is perfect to sharpen those senses and improve thinking process for the Brain functioning Above all garnish of Sesame oil (Til ka Tel) is used which is best for cardiovascular health due to its antioxidant & anti-inflammatory properties which fights in formation and hardening of blood vessels.

No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : SAARTHI: A WOMAN SAFETY MOBILE APPLICATION

<p>(51) International classification :G08B0021020000, G08B0025010000, G06Q0050260000, H04M0001724240, H04W0004900000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- 2)Mr. Pratish Rawat 3)Mr. Akhil Sharma 4)Mr. Ajay Shekhawat 5)Mr. Bhavya Saini Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Pratish Rawat Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- 2)Mr. Akhil Sharma Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- 3)Mr. Ajay Shekhawat Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura ----- 4)Mr. Bhavya Saini Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -----</p>
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(57) Abstract :

In the modern's world, it will be unsafe to travel alone for a person at night especially for women. To provide safety for women a good way to reduce the chances of becoming a victim of violent crime is to identify and call on resources to help you out unsafe situations. Having a safety app on your phone can reduce the reason for the risk situation and add assistance when we need to use it. Unlike the other applications available, which work only at the time of Emergency or Danger, this app can be used as a safety or precaution measure. So that, Protection is better than cure. The main purpose of this app is to provide a safe platform through Android phone as today all person is taking smartphones to travel here and there. The user also gets to know the current user address using GPS location tracker. The fetched information is sent to the emergency contact of the user. Women's safety is a big concern which has been the most important topic till date. Women safety matters a lot whether at home, outside the home or working place. Few crimes against ladies particularly rape cases were terribly dread and fearful. Most of the women of various ages, till this day are being subjected to violence, domestic abuse, and rape. As ladies ought to travel late night generally, it's necessary to remain alert and safe. Although the government is taking necessary measures for their safety, still, there are free safety apps for women that can help them to stay safe. Most of the females these days carry their Smartphone with them, so it is necessary to have at least one the personal safety apps installed. Such a security app for ladies will definitely facilitate in a way or the opposite. When you need some personal assistance, you can actually turn on your phone and can call or message someone for help. But in a life-threatening emergency like attack, sexual assault, robbery, harassment, accident, fire, birth assistance, we don't have time to open our phone; instead, we need some accessibility methods by which we can reach out for help without actually operating the phone. And for these types of cases, we provide life protecting assistance to all women, children and men. We also provide user a panic button option in case of an instant attack on the user in the form of kidnapping.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : ADAPTATION OF INDIAN FOLK MANDANA PAINTINGS INTO BLOCKS FOR DESIGNING THROUGH DISCHARGE PRINTING TO BRING NEW STYLE OF PROSPERITY AND GOOD FORTUNE

<p>(51) International classification :D06P0005150000, B44C0005000000, H05B0045200000, A61K0036740000, B44D0002000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Poornima University, Jaipur Address of Applicant :Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura, Jaipur ----- ----- 2)Ranu Burad 3)Dr. Sanjeev Kumar Mathur 4)Dr. Sunil Kumar Gupta Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ranu Burad Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 2)Dr. Sanjeev Kumar Mathur Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura -- ----- 3)Dr. Sunil Kumar Gupta Address of Applicant :Poornima University, Jaipur Plot No. IS-2027-2031, Ramchandrapura P.O. Vidhani, Vatika Rd, Sitapura, Jaipur -----</p>
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(57) Abstract :

India has long been recognized as the country whose traditional arts and crafts best reflect its vibrant cultural heritage. Every region of India has its own distinctive style and folk art, which are incredibly ethnic and straightforward, but vivid and lively enough to convey a great deal about the country's rich heritage. Due to its inherent aesthetic sensibility and authenticity, Indian folk art appears to have significant market potential outside. Traditionally, these paintings were hand painted, and that was a time consuming and laborious process, but with technological advancements over a period of time, these designs can be created and applied on textiles through Discharge Printing.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2023

(21) Application No.202311010035 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : NEW ALZHEIMER AND PARKINSON DISEASE TREATMENT STRATEGY BASED ON INTRACELLULAR SIGNALING INTERACTION

(51) International classification :A61P0025280000, A61P0043000000, A61K0045060000, A61P0025160000, A61K0031137000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
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(57) Abstract :

New Alzheimer and parkinson disease treatment strategy based on intracellular signaling interaction. The compositions and methods for the treatment of Alzheimer's disease and related disorders relates to novel combinatorial therapies of Alzheimer's disease and related disorders. The compounds which, alone or in combination, can effectively modulate synapse function and/or angiogenesis and/or cell stress response. The methods of producing a drug or a drug combination for treating Alzheimer's disease includes molecular communications in the gut-brain axis, between the central nervous system and the gastrointestinal tract, are critical for maintaining healthy brain function, particularly in aging. The neurotrophic and neuroprotective effects of GLP-1 receptor stimulation have been characterized in numerous in vitro and in vivo preclinical.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2023

(21) Application No.202311010103 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ERGONOMIC LAPTOP KEYBOARD ASSEMBLY FOR PROMOTING HAND COMFORT AND HEALTH

(51) International classification :G06F0003020000, A47B0021030000, G06F0003023000, G06F0003035400, A61H0015000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A tilted keyboard is an ergonomic design that aims to reduce the risk of repetitive strain injuries and make typing more comfortable for the user. The keyboard is positioned at an angle, which places the keys in a more natural position for the hands and wrists. This can help decrease the strain and discomfort associated with prolonged typing and may decrease the risk of developing conditions such as carpal tunnel syndrome and tendinitis. Additionally, using a tilted keyboard can also improve typing speed and accuracy. This design can be found in standalone keyboards or integrated in laptops, and can also be purchased as an accessory for other keyboards. It is important to adjust the angle of the keyboard to a position that feels comfortable and natural for you, and to take frequent breaks to stretch your hands and wrists while working on a keyboard.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2023

(21) Application No.202311010171 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATED SECURITY MANAGEMENT IN EDGE COMPUTING UNDERLYING STRUCTURE

(51) International classification :G06N0020000000, G06F0021550000, G06N0003040000, G06F0021560000, G06F0021620000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Automated security management in edge computing is a crucial area of research that aims to improve the security of distributed computing systems by leveraging automation and machine learning techniques. Edge computing refers to a computing architecture that processes and stores data closer to the source, reducing latency and increasing efficiency. However, edge computing also introduces new security challenges due to its distributed nature and the increasing number of connected devices. The underlying structure of automated security management in edge computing involves several key components, including data collection, threat detection, and response. Data collection involves gathering data from various sources, such as sensors, devices, and networks, to build a comprehensive view of the computing environment. Threat detection uses machine learning algorithms and other techniques to identify potential security threats, such as malware, unauthorized access, and data breaches. Finally, response involves taking action to mitigate or prevent security incidents, such as blocking malicious traffic, quarantining infected devices, or notifying security personnel. Automated security management in edge computing is a critical component of modern computing systems and is essential for ensuring the security and privacy of users' data. It can improve the overall efficiency and effectiveness of security operations, reducing the need for manual intervention and allowing security personnel to focus on more critical tasks. Additionally, automated security management can help organizations comply with increasingly complex regulatory requirements and protect against evolving cyber threats. In conclusion, automated security management in edge computing is a complex and dynamic area of research that is essential for ensuring the security and privacy of distributed computing systems. Its underlying structure involves data collection, threat detection, and response, and relies on advanced machine learning techniques to provide effective security management. As edge computing continues to grow in importance, automated security management will become an increasingly critical component of modern computing systems.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311020201 A

(19) INDIA

(22) Date of filing of Application :23/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM FOR SOIL STERILIZATION

(51) International classification :A61L 021000, A61L 022400, A61L 022600, B09C 010800, G01N 332400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

SYSTEM FOR SOIL STERILIZATION ABSTRACT A system (100) for soil sterilization is disclosed. The system (100) comprises an inlet (102) for receiving non-sterilized soil. The system (100) provides moisturized heat at a predefined temperature to the soil using a heat pad (104). The system (100) sterilizes the soil by providing gamma rays irradiation of predefined capacity on the soil. The sterilized soil is further dispensed using the outlet (108). The system (100) provides a safe and easy way of sterilization of impure soil. Claims: 5, Figures: 1 Figure 1 is selected.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311020202 A

(19) INDIA

(22) Date of filing of Application :23/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR PREPARATION OF A PAPER WRAPPING FOR FRUITS AND VEGETABLES

(51) International classification :A23B 071540, B65B 111000, C08L 031000, D21H 176700, D21H 191000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

METHOD FOR PREPARATION OF A PAPER WRAPPING FOR FRUITS AND VEGETABLES ABSTRACT A method (200) for preparation of a paper (100) wrapping for fruits (102) and vegetables (104) is disclosed. The method (200) comprising steps of: preparing a solution of sodium benzoate, potassium metabisulfite, and potassium permanganate; and spraying the solution with fine mist on the paper (100) on a predefined surface area. The paper (100) is further dried by a predefined arrangement; and the fruits (102) and the vegetables (104) are wrapped in the dried paper (100). The paper (100) increases shelf life and flavor of the fruits (102) and the vegetables (104). Claims: 7, Figures: 2 Figure 2 is selected.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : SELF-HEATING JACKET

(51) International classification :A47J 362800, A61Q 090200, B65D 813400, F24F 012400, F24V 300000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

SELF-HEATING JACKET ABSTRACT A self-heating jacket (100) is disclosed. The self-heating jacket (100) comprises a battery (102) that powers a pad of electric heating coil (104) embedded in a jacket fabric. The jacket (100) is designed to radiate heat toward the wearer's body, providing warmth in cold environments. The battery (102) is specified as being 12 Volts and delivering 13 Ampere hours, with a weight range of 1 to 1.5 kilograms and dimensions of 175mm x 80mm x 135mm. The pad of electric heating coil (104) generates temperatures ranging from 18 degrees Celsius to 100 degrees Celsius. The fabric of the jacket (100) is composed of a nylon material, a polymer material, or a combination thereof. Claims: 7, Figures: 4 Figure 1A is selected.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311020204 A

(19) INDIA

(22) Date of filing of Application :23/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM FOR SECURING A PREMISE

(51) International classification :G06F 215100, G06Q 200200, G06Q 200400, H01L 216870, H04L 093200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

SYSTEM FOR SECURING A PREMISE ABSTRACT A system for securing a premise is disclosed. The system (100) is configured to protect the periphery of the premise from an animal. The system (100) may actuate a buzzer (110) to make an unpleasant sound to scare the animal. The system (100) is further configured to provide a shock to the animal. The system (100) further informs a user by transmitting an alert and a notification to a user device (112). Claims: 6, Figures: 1 Figure 1 is selected.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311020205 A

(19) INDIA

(22) Date of filing of Application :23/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SMART CANOPY FOR A TREE

(51) International classification :A45B 230000, E04F 100000, E04H 150400, H04L 454800, H04N 199600
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A SMART CANOPY FOR A TREE ABSTRACT A smart canopy (100) for a tree is disclosed. The smart canopy (100) comprising: an umbrella (102) arranged at a top side to provide shade to the tree; shade net curtains (104a-104p) arranged at a periphery of the umbrella (102) and made of a material having a predefined porosity level; a holding arrangement (106) to hold the umbrella (102) on the tree; nozzles (122a-122n) and light emitting diodes (118a-118m) arranged at first and second predefined location respectively; a controller (116) connected to the light emitting diodes (118a-118m). The controller (116) is configured to: activate the light emitting diodes (118a-118m) when the detected sunlight level falls below a prestored threshold value of the sunlight; actuate the nozzles (122a-122n) to sprinkle the water when the detected moisture level falls below a prestored threshold value of moisture. The smart canopy (100) protects and maintain health of the tree. Claims: 10, Figures: 4 Figure 1A is selected.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : MICROGREENS CULTIVATION CHAMBER

(51) International classification :A01G 070400, A01G 090200, A01G 090290, A01G 092400, A01G 310000

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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(57) Abstract :

MICROGREENS CULTIVATION CHAMBER ABSTRACT A microgreens cultivation chamber (100) is disclosed. The chamber (100) comprises vertical racks (102a-102n) arranged to cultivate microgreens crops, the microgreens crops are cultivated in trays (104a-104m) provided on the vertical racks (102a-102n). A sensor unit (106) is adapted to detect environmental parameters inside the chamber (100). Light emitting diode (LED) lights (108) with adjustable wavelength are arranged in the chamber (100) and adapted to enhance a bioactive compounds profile of the cultivated microgreens. The chamber (100) enhances a growth of microgreens without a utilization of any preservatives and foreign elements. Claims: 10, Figures: 2 Figure 1 is selected.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : AN ARTIFICIAL FEED FOR SPODOPTERA FRUGIPERDA LARVAE

<p>(51) International classification :A01K 670330, A23K 103000, A23K 201630, A23K 201740, A23K 509000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Lovely Professional University Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab – 144411, India (IN) Jalandhar -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Delvadiya Indrajay Ratilal Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara, Punjab – 144411, India Jlandhar -----</p> <p>2)Dr. Bavisa Rupa Vinubhai Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara, Punjab – 144411, India Jalandhar ----</p> <p>3)Dr. Ginoya Aarti Vrajlal Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara, Punjab – 144411, India Jalandhar ----</p>
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(57) Abstract :

AN ARTIFICIAL FEED FOR SPODOPTERA FRUGIPERDA LARVAE ABSTRACT An artificial feed (100) for Spodoptera frugiperda larvae is disclosed. The artificial feed (100) comprising a composition of: a homogeneous mixture comprising a first predefined amount of green gram powder mixed with a second predefined amount of distilled water; a compound vitamin liquid comprising a third predefined amount of yeast powder, a fourth predefined amount of methyl-p- hydroxybenzoate, a fifth predefined amount of sorbic acid, a sixth predefined amount of antibiotic, a seventh fifth predefined amount of protein powder, and an eight predefined amount of formaldehyde; and a ninth predefined amount of agar with a tenth predefined amount of distilled water, wherein the artificial feed (100) is prepared by adding the ascorbic acid to a mixture of the compound vitamin liquid and the homogeneous mixture by, optionally, adding a small amount of water. Claims: 7, Figures: 2 Figure 1 is selected.

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : BOUQUET MAKING DEVICE

(51) International classification :A01G 050400, A47J 313600, B41C 011400, B65D 855000, G02F 011333

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

BOUQUET MAKING DEVICE ABSTRACT A bouquet making device (100) is disclosed. The device (100) receives a design pattern of a bouquet selected by a user from a computing device (114) through a communication network (118). The device (100) prepares the selected bouquet. The device (100) comprises a sealing mechanism to wrap the bouquet with a wrapping sheet. The device (100) is adapted to store an agrochemical solution for elongating the shelf life of flowers and supporting herbs for a specified duration of time. The device (100) further improves the profit of a florist by increasing efficiency and decreasing spoilage of the flowers. Claims: 10, Figures: 4 Figure 1A is selected.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : METHOD FOR PREPARING A COMPOST

(51) International classification :C05F 110800, C05F 170000, C05F 179000, C05F 179070, C05F 179640
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

METHOD FOR PREPARING A COMPOST ABSTRACT A method (200) for preparing a compost (100) is disclosed. The method (200) comprises steps of: dehydrating first organic waste (102) and making granule powder of the sun-dried first set of the organic waste. Further, a second organic waste (104) is collected and layered with garden soil, and the first organic waste (102) in a container (106) to make a pile. The pile is further sprinkled with an inoculant. An uppermost layer of the garden soil on top of the pile to control odor is added and covered the container (106) with a mulch to retain the moisture and heat. The container (106) is further placed in sunlight to promote decomposition for maintaining a required aeration. Post preparation, the compost (100) is harvested and packed. Claims: 7, Figures: 2 Figure 1 is selected.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/08/2022

(21) Application No.202211044546 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COLD ROLLED BAINITIC STEEL WITH HIGH STRENGTH AND HIGH ELONGATION

(51) International classification	:C22C0038440000, C22C0038380000, C22C0038060000, C22C0038020000, C22C0038040000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE Address of Applicant :ROORKEE Roorkee ----- 2)INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR Name of Applicant : NA Address of Applicant : NA
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(61) Patent of Addition to Application Number	:NA	----- 4)DR. SOURAV DAS Address of Applicant :Department of Metallurgical & Materials Engineering, Indian Institute of Technology Roorkee, Roorkee-247667 Roorkee -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cold-rolled bainitic steel composition to deliver high strength and high elongation for the application in automotive industries. The steel will first be made in a steel converter having the composition in wt.%: C:- 0.20-0.50, Mn:- 1.0-2.0, Si:- 1.1-2.1, Cr:- 0.5-3.0, S: 0.008 max, p: 0.025 max, Al: 0.01-1.0, N: 0.005 max, Fe-balance along with some unavoidable impurities. Figure 1

No. of Pages : 37 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046308 A

(19) INDIA

(22) Date of filing of Application :15/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : FACILE SYNTHESIS OF HIGHLY CONDUCTIVE COST EFFECTIVE NANOSTRUCTURED SILVER PASTE FOR SCREEN PRINTING

(51) International classification :H01B0001220000, H01L0031022400, H05K0001090000, H01B0013000000, H01B0001160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present application provides a cost effective method for synthesis of the highly conductive nanoparticles based silver paste using new composition of precursor materials with a polymer based binder, which have ability to cure at room temperature. The conductivity and viscosity of the silver nanoparticle based paste can be tuned by the changing the concentration of silver metal and binding agent. The present inventors have tested and screened various combinations and found that only PMMA as binding material is suitable. The binder materials (PMMA) or Ethyl Cellulose used to make the slurry have room temperature curing point which eliminate the extra step of heating to get the desire viscosity

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211066816 A

(19) INDIA

(22) Date of filing of Application :21/11/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HELICAL GROOVE (8°56') LAPPING TOOL FOR 155MM RIFLED BORE BARRELS

(51) International classification :B24B0033080000, B24B0033020000, B24B0033000000, F42B0014000000, B24B0031140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to an apparatus (100) for honing a cylindrical surface of a barrel bore, the apparatus includes a honing tool (104) having a grill with serrations in a predefined helix angle. Each serration accommodates a set of abrasive stones (130) of predetermined grit size and chamfered on edges based on the requirement of the barrel bore (132), the barrel bore having a plurality of helical grooves. A lapping head (102) adapted to carry the honing tool (104). The movement of a conical plunger (106) upon tightening of nut (122-2) results in vertical movement of a jaw (114) and plate (112) such that the grill with the set of abrasive stones (130) comes in contact with the plurality of helical grooves of the barrel bore (132) facilitating surface finish of the barrel bore (132).

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311021577 A

(19) INDIA

(22) Date of filing of Application :25/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : NEW PRINCIPLE BASED DEVELOPMENT OF NAPHTHOQUINONE AS UNIVERSAL PREVENTIVE DRUG AGAINST SARS-COV-2 AND ITS VARIANTS

(51) International classification :A61K 391200, A61P 311400, C07C 460400, C07C 503200, G01F 017400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT The present disclosure discloses a naphthoquinone drug against SARS-CoV-2 Spike protein (S protein) and its variants wherein, forming a binding affinity of naphthoquinone to the protein of SARS-CoV-2, S protein and its variants, and human lung cell, wherein; attaching the hydroxyl (-OH) and carbonyl (-C=O) groups of the naphthoquinone to furin protease through a hydrogen bonding; bio layering, dying of furin protease by naphthoquinone thereby preventing the SARS-CoV-2 S protein from splitting up into S1 and S2 protein which activate the SARS-CoV-2 S virus; restricting the activation of SARS-CoV-2 virus by latching naphthoquinone drug onto the furin protease, thereby preventing the infection of the human lung cell. FIG. 1

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211076411 A

(19) INDIA

(22) Date of filing of Application :28/12/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ENERGIZED BALL RAMP ACTUATOR ASSEMBLY

(51) International classification :F16D0125360000, F16D0121140000, F16D0023120000, F16H0048340000, F16D0065180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to an energized ball ramp actuator assembly that facilitates braking of agricultural vehicles with a higher brake force. The energized ball ramp actuator assembly has an actuator plate (01) that forms the framework of the energized ball ramp actuator assembly. The actuator plate (01) is positioned by a pull rod (07) held in place by a clevis pin (08) and a cotter pin (09) on either side of the pull rod (07) to uphold the actuator plate (01) of the energized ball ramp actuator assembly. Further, the clevis pin (08) is configured to lock with a D-cut profile to avoid any interruption between the cotter pin (09) and the actuator plate (01) for the exertion of a high braking force. The energized ball ramp actuator assembly also has four steel balls (02) to enable higher mechanical efficiency during the application of the braking force in tractors and other agricultural vehicles.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/02/2023

(21) Application No.202311008700 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : SENTIMENT ANALYSIS OF A PSYCHOLOGY CLASS

<p>(51) International classification :G06F0040300000, G09B0007000000, G09B0007020000, G09B0005000000, G06Q0050200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mrs. Arti Sharma Address of Applicant :Assistant Professor, Computer Science, KIET Group of Institutions Ghaziabad ----- 2)Dr. Ajay Kumar Agarwal 3)Mr. Mayank Tyagi 4)Mr. Saurabh 5)Mr. Sherish Johri 6)Mr. Prince Kumar 7)Mr. Anurag Mishra Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mrs. Arti Sharma Address of Applicant :Assistant Professor, Computer Science, KIET Group of Institutions Ghaziabad ----- 2)Dr. Ajay Kumar Agarwal Address of Applicant :Professor, Information Technology, KIET Group of Institutions Ghaziabad ----- 3)Mr. Mayank Tyagi Address of Applicant :Assistant Professor, Information Technology, KIET Group of Institutions Ghaziabad ----- 4)Mr. Saurabh Address of Applicant :Assistant Professor, Information Technology, KIET Group of Institutions Ghaziabad ----- 5)Mr. Sherish Johri Address of Applicant :Assistant Professor, Information Technology, KIET Group of Institutions Ghaziabad ----- 6)Mr. Prince Kumar Address of Applicant :Assistant Professor, Computer Science & Information Technology, KIET Group of Institutions Ghaziabad ----- 7)Mr. Anurag Mishra Address of Applicant :Assistant Professor, Computer Science, KIET Group of Institutions Ghaziabad -----</p>
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(57) Abstract :

Sentiment analysis is the process of automatically identifying and extracting subjective information from text data. In the context of a psychology classroom, sentiment analysis can be used to gauge the opinions and emotions of students. This can provide valuable insights into student engagement, satisfaction, and learning outcomes. By analyzing the language used by students in written assignments or online discussions, it is possible to determine their level of positivity, negativity, or neutrality towards the course material, instructor, and classmates. This information can then be used by educators to make data-driven decisions about how to improve the classroom experience for students. Overall, sentiment analysis has the potential to revolutionize the way that educators understand and respond to the needs of their students.

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : SYSTEM AND METHOD FOR RECOMMENDATION SYSTEM

(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0050000000, G06F0016953500, H04N0021466000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention provides a system and method for Recommendations system. Recommendations system is a pillar for each web portal and application. Recommendation systems are not specific to a single domain, it is applicable in diverse domains. It is used in social networking sites for posts and recommending friends; or e-commercial websites for giving suggestions for the user about products and services; or it's a movie recommendation based on the user's interest and suggest the upcoming movies which is well suited for a respective user? At the backend, the machine learning is used to give better recommendations and suggestions. Present invention carries various algorithms and steps shown in figure 1 and figure 2.

No. of Pages : 21 No. of Claims : 4

(54) Title of the invention : SYSTEM AND METHOD OF RECONFIGURING FURNITURE FOR ENHANCED UTILIZATION OF SPACE

<p>(51) International classification :C12Q 016844, G06F 030410, H01M 046600, H01Q 012400, H04W 800400</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Vir Mahadev Singh Khosla Address of Applicant :H NO-300, JULLAKA MOHALLA, JAAMU, Jammu and Kashmir – 180001 Jammu ----- --</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Vir Mahadev Singh Khosla Address of Applicant :H NO-300, JULLAKA MOHALLA, JAAMU, Jammu and Kashmir – 180001 Jammu ----- --</p> <p>2)Sangita Khosla Address of Applicant :H NO-300, JULLAKA MOHALLA, JAAMU, Jammu and Kashmir – 180001 Jammu ----- --</p> <p>3)Geet Khosla Address of Applicant :23 MILHAVEN, APPLE B ROAD, Coonoor, The Nilgiris, Tamil Nadu - 643232 Nilgiris ----- -----</p>
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(57) Abstract :

ABSTRACT A system for reconfiguring a furniture for enhanced utilization of space is disclosed that includes a frame configured to support a furniture article. The frame may be configured to be lifted and lowered between an elevated position and a lowered position. The system further includes at least one flexible member configured to be engaged with the frame to suspend the furniture article and lift and lower the frame between the elevated position and the lowered position. A winch assembly is positioned in proximity to the ceiling associated with the space and is coupled with the frame via the at least one flexible member. The winch assembly is configured to wind and release the at least one flexible member, in response to a signal, to thereby lift and lower the frame between the elevated position and the lowered position.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : METHOD FOR PREPARATION OF MARMALADE

(51) International classification :A23L 211000, A23L 211200, A23N 041800, B65D 858080, C08G 186200

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

METHOD FOR PREPARATION OF MARMALADE ABSTRACT A method (200) for preparation of a marmalade (104) is disclosed. The method (200) comprising steps of: collecting the ripe palmyra palm fruit (100) and a tender palmyra palm fruit (102) and preparing shreds of the edible seeds. The method (200) further comprising steps of: separating the ripe palmyra palm fruit pulp from the outer covering skin and kernel; mashing, and straining the mashed extract. Later, sugar and acid are added to the extract. The extract is cooked, added in with the shreds, and 1 percent (%) of Potassium Metabisulfite (KMS) for preparation of the ripe palmyra palm fruit marmalade (104). The marmalade (104) is stored in an air-tight and sterile bottle in a temperature range from 26 degree Celsius to 30 degrees Celsius. The marmalade (104) is beneficial for dry skin and nourishes a body with a vitamin b and a vitamin c. Claims: 6, Figures: 2 Figure 2 is selected.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026279 A

(19) INDIA

(22) Date of filing of Application :07/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ELECTRO-CHEMICAL REACTION (ECR) CHAMBER FOR AN ELECTRO-CHEMICAL TREATMENT SYSTEM (ECTS) FOR ELECTROCHEMICALLY TREATING WATER THEREIN

(51) International classification :B01J 202800, C02F 010000, C02F 014610, C02F 014670, C02F 090000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Described herein is an electro-chemical reaction (ECR) chamber [102] for an electro-chemical treatment system (ECTS) [100] for electrochemically treating water therein, the ECR chamber [102] comprising: a cathode unit [104] provided in the form of a hollow cylinder structure; and an anode unit [106] rotatably housed within the cathode unit [104]. The anode unit [106] comprises a central shaft member [106a], a plurality of longitudinal scraper blades [106c] and a plurality of anode members [106c], wherein the plurality of anode plate members [106c] together forms a cylindrical surface, while each of the plurality of longitudinal scraper blades [106d] is integrally fixed to the plurality of anode plate members [106c]. Notably, the plurality of longitudinal scraper blades [106d] are in contact with an inner surface of the cathode unit [104], for enabling scrapping off of sludge thereon, upon rotation of the anode unit [106] by means of a motor. Refer figures 4 and 5.

No. of Pages : 23 No. of Claims : 13

(54) Title of the invention : DIGITAL PRESERVATION AND ACCESS TO LIBRARY COLLECTIONS USING AI AND MACHINE VISION

(51) International classification :C12N 151000, G01B 112750, G06F 165500, H01L 214400, H01L 233100
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

DIGITAL PRESERVATION AND ACCESS TO LIBRARY COLLECTIONS USING AI AND MACHINE VISION Abstract A method for the digital preservation of library collections and access to those collections utilizing AI and machine vision may be included as an embodiment of the current disclosure. This technique may comprise scanning library items in order to produce digital pictures. In certain embodiments, the process of identifying and extracting text and other pertinent elements from digital pictures may also include the use of machine vision algorithms. The use of artificial intelligence algorithms to evaluate the data that was collected and produce metadata that describes the content of the library resources is another possible embodiment. A digital repository may also be used to store the digital photographs and the information that is connected with them in certain embodiments. The provision of user access to the digital repository, including search and retrieval functionalities that allow users to locate library resources based on their content and get access to those materials, may also be included as an embodiment.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : NACHOS ENRICHED WITH STELLARIA MEDIA AND/OR URTICA DIOICA LEAVES AND METHOD OF MAKING THEREOF

(51) International classification :A61K 081900, A61K 333800, A61K 361850, A61K 363600, A61P 170200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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(57) Abstract :

NACHOS ENRICHED WITH STELLARIA MEDIA AND/OR URTICA DIOICA LEAVES AND METHOD OF MAKING

THEREOF The present invention discloses nachos enriched with Stellaria media leaves and/or Urtica dioica leaves. The composition comprises maize, multigrain, millets, beans, seeds, Stellaria media leaves and/or Urtica dioica leaves, milk, flavouring and seasoning agents. The invention also discloses a method of making nachos enriched with Stellaria media leaves and/or Urtica dioica leaves. The nachos are nutritionally rich made by baking and retain the texture, color, appearance, and flavor of fried nachos.

No. of Pages : 14 No. of Claims : 15

(54) Title of the invention : WILD ANIMAL QUIVERER WITH LOCO PILOT ALERT SYSTEM FOR RAILWAYS

(51) International classification :A01M 310000, C02F 014670, E01F 080000, F23R 033400, G08B 270000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The main design of our invention discloses a wild animal quiverer with loco pilot alert system for railways, which comprises the wild animal quiverer and alert system. The wild animal quiverer detects the presence of the wild animal on the railway track using the PIR sensor. The controller turns on the vibration motor based on the information received from the PIR sensor to generate vibration on the railway track in order to chase away the animal. If the animal is still present on the railway track even after the vibration means the controller passes the information to the alert system. The railway control room operator checks whether the train travels on the route of the presence of animals, then the control room operator will give an alert or warning to the loco pilot to stop the train to prevent an animal-train collision. [To be published with Figure.2]

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027041 A

(19) INDIA

(22) Date of filing of Application :12/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : CROISSANT ENRICHED WITH STELLARIA MEDIA AND/OR URTICA DIOICA LEAVES AND METHOD OF MAKING THEREOF

(51) International classification :A21C 030600, A21C 090800, A61K 081900, A61K 361850, A61K 363600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

CROISSANT ENRICHED WITH STELLARIA MEDIA AND/OR URTICA DIOICA LEAVES AND METHOD OF MAKING THEREOF The present invention discloses croissant enriched with at least one of Stellaria media leaves and Urtica dioica leaves. The composition comprises whole wheat flour, multigrain flour, millets flour, beans flour, edible seeds, butter, yeast, at least one of the Stellaria media leaves and Urtica dioica leaves, and milk. The invention also discloses a method of making croissant enriched with at least one of the Stellaria media leaves and Urtica dioica leaves. The croissants are nutritionally rich and retain the texture, color, appearance, and flavor while retaining the nutritional value.

No. of Pages : 21 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/04/2023

(21) Application No.202311027061 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : Automatic tablet packing machine using AI technique

(51) International classification :A61B 173400, A61K 092000, A61M 390200, B65B 570000, H01L 290400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In the twenty-first century, we need digital transformation everywhere if we wish to improve and extend human life. Without using the Internet of Things (IoTs) and artificial intelligence (AI, or analytics process), businesses and industries cannot successfully transform to the digital era. The need of many countries in the coming decade is for AI and IoT. On the other hand, some other technologies, such as edge computing and blockchain technology, enable the integration of these technologies easier and quicker. In the not-too-distant future, digital transformation will call for the integration of multiple technologies. This invention relates to Automatic tablet packing machine using AI technique. The concept of Artificial Intelligence enabled sensor and device, tool for medicine with small pocket and enclosed environment. The invention minimizes the efforts of human mankind and the bulk packing of medicines will be done within micro seconds.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027344 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : SET-UP FOR HOT WATER IMMERSION THERAPY

<p>(51) International classification :C08L 290400, C09D 751600, C21D 080200, C22C 383800, G09G 032920</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Lovely Professional University, Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RAVINDER KUMAR Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>2)ANCHAL RANI Address of Applicant :GNA University, Hoshiarpur Road Phagwara 144401 Phagwara -----</p> <p>3)TARLOCHAN SINGH Address of Applicant :Lovely Professional University, Jalandhar- Delhi G.T. Road, 144401 Phagwara -----</p> <p>4)BHAVYA TRIVEDI Address of Applicant :Maya College of Agriculture and Technology Dehradun Uttarakhand India 248011 Dehradun ----- -----</p> <p>5)SUDHIR KUMAR Address of Applicant :Central University of Haryana Mahendergarh 123031 Mahendergarh -----</p>
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(57) Abstract :

A set-up for hot water immersion therapydescribes an invention with a method that allows the use of a common household geyser (5) for the HWIT related purposes.The set-up includes a geyser (5), water pump, temperature sensor (9), temperature controller (2), pipes, valves (or relays), nozzles, etc.The heating elements in the water tank are controlled by a thermostat. The thermostats ensure that the water's temperature never goes over a set point. The tank is frequently covered with both an insulating layer and a metal casing. The standard domestic or residential electric geyser (5) has a single heating element designed to operate with a 230V AC supply. The pump that creates the water flow in the hot tub is driven by the motor (4).The current invention has worked on the existing limitation that the maximum of the households have an instant water geyser (5) (gas geyser (5) or instant electric geyser (5)) installed in their house but the same cannot be utilized for both the purposes i.e. normal use and HWIT use. HWIT requires a dedicated water geyser (5).

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027345 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL DEVICE FOR POLLINATING THE FIELDS

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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A modern method for pollination of the fields wherein a motor (103) along with rollers (104) and a rope (109) is used to pollinate the male (112) and female (111) crop of hybrid paddy crop and this crop produces the hybrid rice after the complete process of pollination. The rollers are placed at four corners of the field and the vertical rollers are connected by a rope and the front two horizontal rollers are connected by a shaft (108) because both horizontal rollers need to rotate at same time. The horizontal rope (110) needs to move from one end of the crop to the other end of the crop for nearly 8 – 10 times in a day of time gap between morning time to early afternoon.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : AN AI-BASED AUTOMATED TOLL COLLECTION SYSTEM WITH LORAWAN TECHNOLOGY

<p>(51) International classification :B23D 590000, G06N 030000, G06T 055000, G07B 150600, G16H 502000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Lovely Professional University, Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GUPTA, Sakshi Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>2)SNIGDH, Itu Address of Applicant :H/o Mr. R.S.D Keshari, House Name:Shivam,Birsa Chowk, Ranchi-834002, Jharkhand ----- -----</p> <p>3)SAHU, Nilesh Kumar Address of Applicant :Indian Institute of Science Education and Research Bhopal Madhya Pradesh bhopal ----- -----</p>
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(57) Abstract :

The present invention is related to an AI-based solution for automatic toll collection that eliminates the problems associated with manual toll control, such as long waiting queues and collection of fees. The system uses Artificial Intelligence, Machine Learning, Computer Vision, GPS, and LoRaWAN-based architecture for toll deduction. The AI model predicts the traffic on the toll road and identifies vehicles through government number plates, deducting toll tax based on the number plate color. The system consists of a display unit, HD camera module, RFID reader, LoRa gateway, and charging jack. The LoRa gateway transmits the data collected by the RFID reader wirelessly to a central server for processing, allowing for automatic toll deduction without manual intervention. The system is designed to scan the vehicle and automatically deduct the toll tax without waiting in a long queue.

No. of Pages : 20 No. of Claims : 9

(54) Title of the invention : ASmart ATTACHABLE CLUTCH MONITORING DEVICE FOR IMPROVED DRIVING AND VEHICLEHEALTH

<p>(51) International classification :A47L 114000, A61B 050000, B60W 100200, C07D 872200, C07D 910480</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Lovely Professional University, Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)SINGH, Mandeep Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>2)CHOUDHARY, Ruhul Amin Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>3)SAXENA, Dr. Kumud Address of Applicant :Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II Greater Noida Uttar Pradesh 201306 Noida ----- ---</p> <p>4)TRIPATHI, Dr. Vikas Address of Applicant :Graphic Era University, 566/6, Bell Road, Society Area, Clement TownDehradun 248002 Dehradun ----- -----</p>
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(57) Abstract :

The proposed invention is a smart attachable Alert and monitoring system designed to be easily fitted to any vehicle to improve driver skills and maintain the vehicle's health. It consists of a power unit(103), power regulator(104), displacement sensor(107), microcontroller(105), LCD(101), buzzer(106), and GPRS module(102). The displacement sensor (107) measures the clutch pedal's displacement during gear change activity, and the microcontroller (105) processes the data to determine if the clutch is fully engaged or not. The LCD display(101) and buzzer(106) alert the driver if the clutch is not fully engaged, and the microcontroller(105) records the percentage of inappropriate clutch pedal engagement. The system continuously monitors the clutch activity and reminds the driver to remove their foot from the clutch pedal after gear changes. The system also sends data to a mobile phone through the internet to notify the driver or custodian if the driver is not driving the vehicle fully.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027509 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PEER PRESSURE DETECTION THROUGH SOCIAL MEDIA

(51) International classification :G06F 030410, G06F 030440, G06Q 500000, H04L 515200, H04W 042100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

PEER PRESSURE DETECTION THROUGH SOCIAL MEDIA Abstract The existing disclosure may allow for the deployment of a chatbot system with the intention of assisting a user in reducing their feelings of social anxiety. A system like this one may include an AI engine that is pre-programmed to take in information from the user and analyse it. In certain embodiments, there is additionally a user interface that may be incorporated. This user interface has the capability of collecting input from users and showing output that is developed in a responsive manner by an artificial intelligence engine. In certain implementations, there is also a social anxiety reduction module that is designed to provide responsive output depending on the analysis of user input performed by an AI engine. This kind of module may be included. Positive affirmations, exercises in mindfulness, exposure treatment, and cognitive-behavioral therapy are some examples of what could be included in the response output.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027510 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AI AND CHATBOTS FOR LIBRARY REFERENCE SERVICES

(51) International classification :C12N 151000, G06F 403000, H04L 510200, H04L 510400, H04L 670200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

AI AND CHATBOTS FOR LIBRARY REFERENCE SERVICES Abstract The existing disclosure may allow for the deployment of a chatbot system with the intention of assisting a user in reducing their feelings of social anxiety. A system like this one may include an AI engine that is pre-programmed to take in information from the user and analyze it. In certain embodiments, there is additionally a user interface that may be incorporated. This user interface has the capability of collecting input from users and showing output that is developed in a responsive manner by an artificial intelligence engine. In certain implementations, there is also a social anxiety reduction module that is designed to provide responsive output depending on the analysis of user input performed by an AI engine. This kind of module may be included. Positive affirmations, exercises in mindfulness, exposure treatment, and cognitive-behavioral therapy are some examples of what could be included in the response output.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027511 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATED METADATA CREATION FOR LIBRARY COLLECTIONS USING DEEP LEARNING TECHNIQUES

(51) International classification :C12N 151000, G01R 335600, G06F 084100, G06N 030400, G06N 030800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

AUTOMATED METADATA CREATION FOR LIBRARY COLLECTIONS USING DEEP LEARNING TECHNIQUES Abstract
In some implementations of the current disclosure, there is the potential for there to be a system that, via the use of various forms of deep learning, is able to create metadata for library collections automatically. A processor that is able to perform deep learning algorithms in order to analyze text data obtained from library collections may be included in this system. This processor may be configured in a certain way. In certain implementations, there is also the possibility of including a memory that is able to store a metadata database, as well as a memory that is able to store the results produced by deep learning algorithms. Input modules, which are able to receive text data from library collections, may also be included in embodiments. Such modules might be included in the system. In certain implementations, there is also a metadata production module that is configured to generate metadata for the text data based on the results that are created by the deep learning algorithms. This metadata is generated in accordance with the results of the deep learning algorithms. In certain implementations, there is also the possibility of including an output module with the intention of storing the newly formed metadata into the metadata database.

No. of Pages : 24 No. of Claims : 8

(54) Title of the invention : AN AIR POLLUTION CONTROL SYSTEM WITH AIR FRESHENER DISPENSING UNIT AND WORKING METHOD THEREOF

<p>(51) International classification :F24F 110/50, F24F 110/52, F24F 110/64, F24F 110/65, G08B 21/18, G16Y 20/10, G16Y 40/30, G16Y 40/35</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Jyoti Srivastava Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, NIT Hamirpur, Himachal Pradesh Hamirpur ----- 2)Dr. Prabhat Kumar Srivastava 3)Dr. Ashish Kumar Srivastava 4)Mr. Nishant Anand 5)Dr. Ajay Kumar Gupta Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Jyoti Srivastava Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, NIT Hamirpur, Himachal Pradesh Hamirpur ----- 2)Dr. Prabhat Kumar Srivastava Address of Applicant :Professor, Department of Computer Science & Engineering, IMS Engineering College, Ghaziabad, U.P. Ghaziabad ----- 3)Dr. Ashish Kumar Srivastava Address of Applicant :Professor, Department of Computer Science & Engineering, Galgotia University, G.B. Nagar, U.P. G.B. Nagar ----- 4)Mr. Nishant Anand Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, IMS Engineering College, Ghaziabad, U.P. Ghaziabad ----- 5)Dr. Ajay Kumar Gupta Address of Applicant :Associate Professor, Department of Computer Science & Engineering(AI), IIMT College of Engineering, Gr. Noida, U.P. Gr. Noida -----</p>
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(57) Abstract :

[035] The present invention discloses an air pollution control system with air freshener dispensing unit and working method thereof. The system includes, but not limited to, an IoT device for controlling and monitoring a portable housing, which is placed at a predefined space for air pollution controlling; wherein the portable housing is having an input air module to provide a flow path for incoming pollutant-containing air upon collection until initiation of filtration of the input air module thereof; a blower unit and a pollutant sensor adapted to work in conjunction with a machine learning interface for detecting the amount / quantity of air borne microorganism and other pollutants; a plurality of nano carbon filter tubes for oxidation of the contaminant in the air stream provided with an air filtration unit for removing pollutants from the air; wherein the air filtration unit is activated through the machine learning interface. Further, the portable housing is movable while in operation within the predefined space where pollution is originating. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027149 A

(19) INDIA

(22) Date of filing of Application :12/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : HYPERSPECTRAL IMAGING METHODOLOGY FOR GEOLOGICAL SAMPLE ANALYSIS

(51) International classification :G01J 030200, G01J 032800, G01N 217100, G01N 332400, G01V 990000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

HYPERSPECTRAL IMAGING METHODOLOGY FOR GEOLOGICAL SAMPLE ANALYSIS Abstract A system for hyperspectral imaging technique for geological sample analysis may be included in certain embodiments of the present disclosure. This system may contain a hyperspectral imaging device that is able to capture a hyperspectral picture of a geological sample. In certain implementations, there is also a possibility of including an artificial intelligence module that is able to analyse the hyperspectral picture and produce a mineral map of the geological sample. A computer system that is able to receive and store the mineral map as well as create a report based on the mineral map may also be included in certain embodiments of the invention.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : GREEN SYNTHESIS OF SILVER NANOPARTICLES USING AZADIRACTA INDICA AND GARDENIA GUMMIFERA PLANT EXTRACT

(51) International classification :A61K 089789, A61K 333800, A61K 367440, B22F 092400, B82Y 400000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention relates to Nanotechnology is widely recognised as the most prevalently researched topic within the field of material science. In the fields of medicinal chemistry and atomic physics, nanotechnology focuses on nanoparticles that vary in size from 1 to 100 nanometers (nm). Along with the antibacterial properties of the Azadiracta indica and Gardenia gummifera plants that were used in this research, silver nanoparticles, also known as AgNPs, were successfully included. Scanning electron microscopy (SEM) and transmission electron microscopy were used in order to finish the representation of mixed nanoparticles (TEM). It was discovered that the combined AgNPs had a size in the region of 60–80 nm. When compared to S. aureus, E. coli, and Pseudomonas aeruginosa, the antimicrobial mobility of AgNPs was analyzed. As a consequence of these findings, it seems that the AgNPs could have some use in the field of medical research.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027348 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL WOUND HEALING FORMULATION AND PROCESS THEREOF

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(51) International classification	:A61K 091900, A61K 095000, A61K 314960, A61K 472600, A61P 170200	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention disclosed the preparation of the herbal wound healing ointment. The said invention is prepared by the medicinal plant i.e. Rheum webbiamum, B.oleracea. The said invention consists of mineral oil, lecithin and limonene apart from the herbal extracts. The said invention is prepared for the external application on wounds related with burns, pathogens, diabetes. The said invention is very cost effective and easy to prepare. The formulation can be prepared as ointment, gel, lotion, cream and antiseptic dressing. Moreover, said formulation enhances the industrial diversification of the herbal medicinal plants.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027357 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD OF PREPARING FERULIC ACID-ASSISTED NANOSILVER CONTAINING ANTIBACTERIAL COTTON FABRIC

(51) International classification :A61L 154600, A61P 250400, A61P 310000, D06M 010600, D06M 160000
(86) International Application No.:NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

METHOD OF PREPARING FERULIC ACID-ASSISTED NANOSILVER CONTAINING ANTIBACTERIAL COTTON FABRIC The invention relates to a method for preparing a nano silver-containing anti-bacterial fabric. The method comprises the following steps: generating AgNO₃ solutions by dissolving the exactly evaluated quantity of aqueous AgNO₃ solution in a Erlenmeyer flask and placing it in a dyeing machine, submerging the AgNO₃ solution with cotton fabric in the flask, heating the medium followed by adding alcoholic ferulic acid solution (EtOH) drop by drop to it, covering the flask with an aluminium foil for 30 min with continuous agitation, cleansing the cloth numerous times with distilled water after the procedure to eliminate any unsettled element and drying the resultant cotton fabric. The preparation method has the characteristics of simple process, no pollution to the environment, low cost and large-scale production. Dated this 8th day of April, 2023
POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027358 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SMART MONITORING DEVICE FOR LPG GAS LEVEL DETECTION USING IOT MODEL

<p>(51) International classification :F17C 130200, G01F 233800, G01G 170400, G08B 211800, G16Y 401000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg (State Highway 57), Mirzapur Pole, Dist - Saharanpur, Uttar Pradesh, India-247121 Saharanpur -----</p> <p>2)Dr. Pramod Kumar 3)Dr P.K.Bharti 4)Mr Mohit Kumar 5)Prof(Dr) David Asirvatham Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pramod Kumar Address of Applicant :Glocal University, Saharanpur Uttar Pradesh -247121, India Saharanpur -----</p> <p>2)Dr P.K.Bharti Address of Applicant :Glocal University, Saharanpur Uttar Pradesh -247121, India Saharanpur -----</p> <p>3)Mr Mohit Kumar Address of Applicant :Glocal University, Saharanpur Uttar Pradesh -247121, India Saharanpur -----</p> <p>4)Prof(Dr) David Asirvatham Address of Applicant :Taylor University, Subang Jaya, Selangor, Malaysia -----</p>
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(57) Abstract :

SMART MONITORING DEVICE FOR LPG GAS LEVEL DETECTION USING IOT MODEL Accordingly, embodiments herein disclose a smart monitoring device for LPG gas level detection using IoT model, comprising of: a microcontroller; and a plurality of LPG gas sensors which is configured to continuously measure the gas level and send monitored data to the microcontroller. Further, the proposed device may include an IoT module which is configured to connect with the plurality of LPG gas sensors. The plurality of LPG gas sensors is to transmit the data to a cloud platform for monitoring a level of LPG gas, thereby preventing the LPG gas-related accidents and providing a safe environment for household and commercial buildings. Furthermore, the proposed device may include an alert system which is configured to send notifications to a user's smartphone when the LPG gas level reaches a critical level. Dated this 6th day of April, 2023 Pooja IN/PA/1838 Agent for the Applicant

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027359 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : PYROLYSIS OF BIOMASS

(51) International classification :B01J 294000, B01J 294400, C10B 530200, C10B 570600, C10G 030000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

PYROLYSIS OF BIOMASS The present invention relates to a method of generating syngas, energy, organics and charcoal from biomass using the process of pyrolysis. The production of valuable products from biomass wastes from littering, wood or agricultural wastes, is highly recommended in the current scenario. Dated this 8th day of April, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027512 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : 3D PRINTING AND DIGITAL RECONSTRUCTION IN ARCHAEOLOGICAL CONSERVATION

(51) International classification :B32B 071200, B32B 330000, B32B 380000, B41J 032800, H04N 010000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

3D PRINTING AND DIGITAL RECONSTRUCTION IN ARCHAEOLOGICAL CONSERVATION Abstract The present disclosure relates to a system that uses 3D printing and digital reconstruction as a means of preserving archaeological artefacts. This would be accomplished using the system. A three-dimensional scanning component may be included in this system for the purpose of documenting the shape and texture of archaeological artefacts. The artefacts have the potential to be fixed and rebuilt in a digital environment with the assistance of a digital reconstruction module, which may be included into certain embodiments of the invention. In certain implementations, there is also the possibility of including a 3D printing module. This module is used to physically produce the digitally reconstructed artefacts.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027513 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : CIVIL DATA COMPILATION FOR IMPROVED DATA ADMINISTRATION

(51) International classification :G02B 270000, G06F 084100, G06Q 101000, G06T 030000, H04N 053570
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

CIVIL DATA COMPILATION FOR IMPROVED DATA ADMINISTRATION Abstract A system for compiling and managing civil data may be included in certain embodiments of the present disclosure. This system may comprise a data collection module that is designed to gather civil data from a variety of sources. A data processing module that is set up to analyse and arrange the gathered civil data is another component that may be included in embodiments. Embodiments may further contain a data storage module designed to store the processed civil data. A data analysis module that is set up to analyse the stored civil data in order to find patterns and trends is another component that may be included in embodiments. A user interface module that is set up to provide users access to the processed and analysed civil data may also be included in embodiments.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027514 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DIGITAL PRESERVATION OF ANCIENT ARTIFACTS

(51) International classification :A61K 364600, D21H 251800, E04G 230200, G01R 335650, H04N 198600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

DIGITAL PRESERVATION OF ANCIENT ARTIFACTS Abstract The present disclosure relates to a system for the computational analysis of ancient writings may be included in certain embodiments of the current disclosure. This system may comprise an optical character recognition (OCR) module for the purpose of transforming photographs of ancient texts into a format that can be read by a computer. A natural language processing (NLP) module that is set up to analyse the text that may be read by a computer and extract linguistic characteristics may also be included in certain embodiments. In certain embodiments, there is also a potential for there to be an output module that generates insights and visual representations of the analysis. It's possible that certain implementations of the system are tailored to old scripts and writing systems particularly.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027515 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : GIS AND REMOTE SENSING IN ARCHAEOLOGICAL SURVEYS

(51) International classification :G01N 213100, G05D 270200, G06F 162900, G06Q 300200, H05B 471100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

GIS AND REMOTE SENSING IN ARCHAEOLOGICAL SURVEYS Abstract The present disclosure relates to a system that conducts archaeological surveys by using geographic information system (GIS) and remote sensing methodologies. A data collection module that may be used to collect geographical information and data gathered through remote sensing might also be included in this system. In certain implementations, there is also a data processing module that may be used to integrate, analyse, and process the data that has been acquired. This module is included in some implementations. It's feasible that some embodiments may contain a visualisation module that will exhibit the processed data in a GIS context. This is something that's possible but not guaranteed. Archaeological surveys will be less difficult to carry out as a result of this.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027173 A

(19) INDIA

(22) Date of filing of Application :12/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : BIOMIMETIC METHOD TO ENHANCE QUANTUM PHOTOVOLTAIC CELL EFFICIENCY

(51) International classification :B82Y 200000, G06N 100000, H01L 310352, H01L 310540, H02S 501000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a device (100) comprising a p-doped semiconductor (102) having positive charge carriers, an n-doped semiconductor (104) having negative charge carriers and a stack of quantum dots (106) sandwiched between the p-doped semiconductor and n- doped semiconductor. Each quantum dot have an electric dipole moment, wherein the stack of quantum dots allows coherent coupling of excitations between neighbouring quantum dots and tunnelling to the adjacent semiconductors which reduces radiative recombination by breaking detailed balance, resulting in increased efficiency.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027226 A

(19) INDIA

(22) Date of filing of Application :12/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : Composition of metformin and pravastatin

<p>(51) International classification :A61K 31/155, A61K 45/06, A61P 3/10</p> <p>(86) International Application No :PCT// /</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Surabhi Tripathi Address of Applicant :Ram Gopal College of Pharmacy College, Sultanpur, Gurugram, Haryana 122506 -----</p> <p>-</p> <p>2)Amit Dubey 3)Priyanka 4)Monika Saini 5)Preeti Sharma 6)Babita 7)Kapil Yadav Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Surabhi Tripathi Address of Applicant :Ram Gopal College of Pharmacy College, Sultanpur, Gurugram, Haryana 122506 -----</p> <p>2)Amit Dubey Address of Applicant :Bhabha University, Bhopal, Madhya Pradesh, India, 462026 -----</p> <p>3)Priyanka Address of Applicant :Ram Gopal College of Pharmacy College, Sultanpur, Gurugram, Haryana 122506 -----</p> <p>4)Monika Saini Address of Applicant :Ram Gopal College of Pharmacy College, Sultanpur, Gurugram, Haryana 122506 -----</p> <p>5)Preeti Sharma Address of Applicant :Ram Gopal College of Pharmacy College, Sultanpur, Gurugram, Haryana 122506 -----</p> <p>6)Babita Address of Applicant :Starex University, NH-48, Gurugram, Haryana 122506 -----</p> <p>7)Kapil Yadav Address of Applicant :Ram Gopal College of Pharmacy College, Sultanpur, Gurugram, Haryana 122506 -----</p>
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(57) Abstract :

Abstract The present invention relates to solid oral fixed dose compositions of metformin, pravastatin or pharmaceutically acceptable salts thereof, processes for their preparation and the use of such compositions in the treatment of type 2 disease. The present invention provides compound formulations and the method for preparing the compound formulation, wherein described compound formulation includes metformin and pravastatin, and the bilayer tablet have different release profile.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/04/2023

(21) Application No.202311027229 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPOSITION AND PROCESS FOR TOPICAL FORMULATION OF PSORALEN-DERIVATIVE FOR TREATMENT OF VITILIGO AND PSORIASIS

<p>(51) International classification :A61K 090000, A61K 091070, A61P 170000, A61P 170600, A61P 330000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Pramod Kumar Address of Applicant :Pocket E- 126 A, LIG FLATS, NEAR HANSRAJ SCHOOL, DILSHAD GARDEN, DELHI – 110095, India DELHI -----</p> <p>2)Sarita Dharmshaktu 3)Mayur Chaurey 4)Wasim Raza Ali 5)Mahaveer Singh 6)Divya Negi 7)Karuna Dhaundhiyal 8)Shikha kandpal 9)Arpita Upreti 10)Pawan Bagiyal Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Pramod Kumar Address of Applicant :Pocket E- 126 A, LIG FLATS, NEAR HANSRAJ SCHOOL, DILSHAD GARDEN, DELHI – 110095, India DELHI -----</p> <p>2)Sarita Dharmshaktu Address of Applicant :Assistant Professor, Amrapali institute of pharmacy & Sciences, Amrapali Group of Institutions, Haldwani, Nanital, Uttarakhand- 263139, India Nanital -----</p> <p>3)Mayur Chaurey Address of Applicant :Associate professor, Corporate institute of pharmacy, Bhopal, Madhya Pradesh-462022, India Bhopal -----</p> <p>4)Wasim Raza Ali Address of Applicant :Associate professor, School of pharmacy, ITM SLS BARODA UNIVERSITY, VADODARA, GUJRAT- 391510, India VADODARA -----</p> <p>5)Mahaveer Singh Address of Applicant :Professor, Swami Keshvanand Institute of Pharmacy (SKIP), Raisal, Bikaner, Rajasthan- 334022, India Bikaner -----</p> <p>6)Divya Negi Address of Applicant :Assistant Professor, Amrapali institute of pharmacy & Sciences, Amrapali Group of Institutions, Haldwani, Nanital, Uttarakhand-263139, India Nanital -----</p> <p>7)Karuna Dhaundhiyal Address of Applicant :Assistant Professor, Amrapali institute of pharmacy & Sciences, Amrapali Group of Institutions, Haldwani, Nanital, Uttarakhand-263139, India Nanital -----</p> <p>8)Shikha kandpal Address of Applicant :Amrapali Institute of Pharmacy & Sciences, Shikshanagar, Lamachaur, Haldwani, Nainital, Uttarakhand-263139, India Nainital -----</p> <p>9)Arpita Upreti Address of Applicant :Assistant professor, Amrapali institutes of pharmacy and sciences, sikshanagar, lamachaur, haldwani, nanital, uttrakhand- 263139,India nanital -----</p> <p>10)Pawan Bagiyal Address of Applicant :HLL LIFECARE LIMITED, AMRIT Pharmacy, AIIMS Rishikesh, Uttarakhand- 249202,India Rishikesh -----</p>
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(57) Abstract :

The present invention generally relates to a process for topical formulation of psoralen derivative for effective treatment of vitiligo and psoriasis comprises mixing 10-40wt% of Dimethyl formamide and 2-10wt% of Propylene glycol under stirring and adding 1-3wt% of Psoralens solution under stirring for preparing a first solution; dissolving 50% of water poloxamer 188 in it under stirring and adding 0.02-1wt% of Methyl parabens and 0.15-2wt% of Propyl parabens under stirring till gets dissolved thereby adding 0.2-0.5wt% of Butylated hydroxyl toluene under stirring till get clear solution for preparing a second solution; adding the first solution into the second solution slowly under rapid stirring and adding 0.2-5wt% of Transcutol-P under stirring until get properly mixed thereby making up the volume to 100% with purified water and stir for 30 min; and maintaining pH of solution from pH 5-7 and filtering the obtained solution with mesh muslin cloth for preparing Nano-emulsion.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : AN ORAL LIQUID PHARMACEUTICAL COMPOSITION OF FEXOFENADINE AND ITS MANUFACTURING PROCESS THEREOF

(51) International classification :A61K 090000, A61K 090800, A61K 314450, A61P 370800, C07D 112200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention generally relates to a process for formulation of liquid oral solution of Fexofenadine comprises taking 25% of purified water in a vessel and adding 2-30wt% of HPBCD slowly under strong stirring till all HPBCD is completely dissolved; adding 0-1wt% of Fexofenadine hydrochloride under stirring till all drug gets dissolved to prepare a first clear solution; taking 25% purified water and dissolving 0.02-0.2wt% Disodium EDTA, 0.002-0.02wt% SMP, 0.012-0.2wt% SPP to prepare a second clear solution; mixing the first clear solution with the second clear solution under stirring; dissolving 1-5wt% sodium saccharin and 0.01-2wt% Neotame in 0-10% of purified water and adding to the first clear solution under stirring; checking the pH of solution and adding sodium hydroxide and hydrochloric acid to adjust the pH 4-6, if required; and filtering the solution through a 100 mesh muslin cloth.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/04/2023

(21) Application No.202311027231 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : SMART REMOTE MONITORING OF HIGH-RISK PATIENTS THROUGH AI-POWERED SOLUTIONS

(51) International classification :A61B 051100, A61B 053180, H01Q 013200, H04B 100770, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a smart remote monitoring system for monitoring high-risk patients through AI-powered solutions. The system comprises a remote monitoring device, a central monitoring station, and an AI-powered analysis module. The remote monitoring device is equipped with sensors that monitor the patient's vital signs and transmit the data to the central monitoring station via a secure network connection. The AI-powered analysis module analyzes the data and generates alerts in case of any abnormalities, providing accurate and timely diagnosis. The system is non-invasive, cost-effective, and convenient, allowing for timely intervention in case of any abnormalities. The use of advanced technologies, such as AI, ensures that the data is analyzed accurately and in a timely manner. The smart remote monitoring system has numerous applications in the field of healthcare and has the potential to revolutionize the way high-risk patients are monitored and treated.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : : SYSTEM FOR FRACTURE NECK FEMUR WITH CONTROLLABLE POST OPERATION COLLAPSE (FEMUR NECK FIXATOR IMPLANT).

<p>(51) International classification :A41D 130500, A61B 176400, A61B 177400, A61B 177600, A61F 023600</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Gaurav Luthra Address of Applicant :1/7 A Pradhan Market Road, Nirankari Colony, Mukherjee Nagar, Delhi 110009 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Samarth Mittal Address of Applicant :House No 212,Sector 6, Panchukla , Haryana , India ,Pin Coda 134109 ----- 2)Dr. Vivek Trikha Address of Applicant :Room 318 , IIIrd floor , Department of Orthopaedics , JPNATC , AIIMS , New Delhi , India ----- 3)Mr Gaurav Luthra Address of Applicant :House No. 1/7A, Nirankari Colony , Mukherjee Nagar , Delhi Pin Code 110009 Panchukla ----- 4)Navneet Singh Address of Applicant :340 B Rajnagar Colony, Arogya Mandir, Gorakhpur Uttat Pradesh 273003 ----- 5)Mohit Kumar Address of Applicant :P 6 101, Ushay Tower, Sonipat, Haryana 131028 ----- 6)Pardeep Singh Address of Applicant :A402 ,max hieght dream home , sector 61,sonipat -----</p>
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(57) Abstract :

We develop a useful metal product (femur neck fixator implant) for Femur bone-8, Neck Fracture to retain the femoral neck-9 as much as possible, avoid necrosis of the femoral head-10, and achieve bone healing. This metal implant is used for fixation of femur neck-9, fracture-11 by the help of hollow cylindrical metal component as bolt-1 and a metal plate having cylindrical component attached on it (barrel plate-3.) which is fix in the bone where the fracture is located ,a hollow cylindrical metal component with cut out -17 on it (bolt -1) is fix in cylindrical component-13 of metal plate-14 (barrel plate-3) to make a support in neck of femur bone ,a metal screw (anti rotational screw-2) is guided in barrel plate-3 through cylindrical component-13, and hollow cylindrical metal component(bolt-1) to fix the femur neck fracture ,this anti rotational screw -2 block the rotation of femur head-10 and provide anti rotation this system is capable to make controllable post operation collapse in bone so that the fracture will reduce, collapse in this system is controlled by metal bolt end caps -4 having cylindrical shape ,a metal screws -5 having thread on extended head (locking screw-5) is used to fix plate in bone and provide stability in bone .The assembly of these component is relates to a system for the treatment of femoral neck-9, fractures-11, designed to address clinical challenges associated with fixation of such fractures. The system comprises of implants that form a fixed-angle gliding fixation device that allows for controlled collapse of the femoral neck-9, similar to existing dynamic hip screw systems and FNS. The described system is effective for treating femoral neck fractures in younger patients and offers numerous benefits such as earlier union, and lower fluoroscopy exposure. Therefore, the described system represents a novel approach to the treatment of femoral neck fractures and offers a number of advantages over existing systems. The system has potential for significant impact in the field of orthopaedic surgery and can lead to improved clinical outcomes for patients.

No. of Pages : 27 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027360 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR FILTERING CARBON FROM EXHAUST AND SMOKESTACK OF CAR

<p>(51) International classification :C02F 010000, F02D 411400, G06Q 101000, H04L 510000, H04L 656110</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shri Ramswaroop Memorial College of Engineering and Management, Lucknow Address of Applicant :Lucknow, Uttar Pradesh 226028, India Lucknow -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Ayushi Dubey Address of Applicant :Shri Ramswaroop Memorial College of Engineering and Management, Lucknow, Uttar Pradesh, India Lucknow -----</p> <p>2)Mr. Jatin Verma Address of Applicant :Shri Ramswaroop Memorial College of Engineering and Management, Lucknow, Uttar Pradesh, India Lucknow -----</p> <p>3)Mr. Himanshu Verma Address of Applicant :Shri Ramswaroop Memorial College of Engineering and Management, Lucknow, Uttar Pradesh, India Lucknow -----</p> <p>4)Dr. Atul Kumar Address of Applicant :Shri Ramswaroop Memorial College of Engineering and Management, Lucknow Uttar Pradesh, India Lucknow -----</p>
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(57) Abstract :

A SYSTEM FOR FILTERING CARBON FROM EXHAUST AND SMOKESTACK OF CAR Accordingly, embodiments herein disclose a system for filtering carbon which is released from exhaust and smokestack of cars, comprising of: a dual absorbent filtering system for reducing pollutants such as CO₂, CO, NO_x, CMCN, etc.,) emission from an exhaust system using adsorption techniques through an exhaust pipe. The 60-80% pollutants are reduced in the emission using the dual absorbent filtering system. The collected pollutants, from the exhaust and the smokestack of car, are going to various processes for trapping, filtration and purification which can interact with the natural dispersants which result in ink for our printers and pens. Dated this 24th day of March, 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027361 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : SMART HIVE MONITORING DEVICE

(51) International classification :A01K 470000, A01K 470200, A01K 470600, A61B 050000, H04N 071800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

SMART HIVE MONITORING DEVICE Accordingly, embodiments herein disclose a smart hive monitoring device (100) for enhancing efficiency and productivity in beekeeping, comprising of: a plurality of bio-sensors (110) which is configured to monitor the conditions within the hive and sending reports to a beekeeper's mobile phone (120). The smart hive monitoring device (100) provides the real-time information on the health and productivity of the hive; therefore the beekeepers identify the problems early and take appropriate action to prevent the spread of disease or other issues. The smart hive monitoring device (100) saves the beekeepers time and effort, allowing them to focus on other aspects of beekeeping, such as honey production and pollination services. Figure to be published with Abstract: Figure 1 Dated this 6th day of April, 2023 Pooja IN/PA/1838 Agent for the Applicant

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : ACOUSTIC MONITORING SYSTEM FOR TRACKING MILITANT/INFILTRATED UNMANNED AERIAL VEHICLES

<p>(51) International classification :B64C 390200, B64D 450000, E21B 432600, G06Q 100800, G08G 050000</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)The NorthCap University Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Roshan Raman Address of Applicant :Assistant Professor, The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----</p> <p>2)Mohit Sharma Address of Applicant :Student, The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram ----- -----</p>
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(57) Abstract :

ACOUSTIC MONITORING SYSTEM FOR TRACKING MILITANT/INFILTRATED UNMANNED AERIAL VEHICLES

Accordingly, embodiments herein disclose an acoustic monitoring system for tracking militant/infiltrated unmanned aerial vehicles (UAVs), comprising of: a plurality of acoustic sensors for receiving acoustic signals emitted by militant unmanned aerial vehicles (UAVs). Further, the proposed system may include a computing platform which is connected to the plurality of acoustic sensors. The computing platform is configured to receive and process the acoustic signals and to calculate the location of the unmanned aerial vehicles (UAVs) based on the received data and analysis. Furthermore, the proposed system may include a display which is connected to the computing platform. The computing platform is configured to display the unmanned aerial vehicle (UAV) location in real-time. When the location is determined, the display and an alarm system are triggered, and the users can be alerted of the UAV presence and location. Dated this 29th day of March, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027256 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : PREPARATION AND EVALUATION OF HERBAL ANTI-ACNE GEL

(51) International classification :A61J 030700, A61K 083800, A61K 365340, A61P 171000, A61Q 190000

(86) International Application No.:NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to

Application Number :NA

Filing Date :NA

(62) Divisional to Application

Number :NA

Filing Date :NA

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(57) Abstract :

Many side effects can arise due to the use or long term use of synthetically prepared anti acne gel because of their toxic chemical composition instead of that we will be trying to formulate herbal anti-acne gel which is composed on natural component with less side effects. The excessive use of antibiotics for long periods has led to the increased resistance in acne causing bacteria i.e. P. acnes, s. epidermidis and S. aureus. Herbal treatment for skin problem has no or minimum side effects and is relatively cheap and locally available. There are many literatures claim that herbs reduce various skin problems. They are easily available. They are very specific in their activity i.e. hibiscus (antimicrobial) neem, guava (antimicrobial and skin healing). Many literatures claim that plants exhibits anti-inflammatory, anti-microbial, wound healing, antioxidant and hormonal balancing properties. The objective of this research is to formulate multi-purpose acne formulation, which have ability to fight against all the causative factor of acne without any side effects.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027270 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SECURED AUTOMOBILE AUTHENTICATION SYSTEM (SAAS)

<p>(51) International classification :B60R 070800, G06F 213100, G06F 214100, H04L 093200, H04W 120600</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY (JIIT) Address of Applicant :A-10, Sector-62, Noida-201309, Uttar Pradesh (India) Noida ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SHREYANSH MISHRA Address of Applicant :Jaypee Institute of Information Technology, A-10, Sector-62, Noida- 201309, Uttar Pradesh (India) Noida ----- 2)ISHIKA SHARMA Address of Applicant :Jaypee Institute of Information Technology, A-10, Sector-62, Noida- 201309, Uttar Pradesh (India) Noida ----- 3)SHAMIM AKHTER Address of Applicant :Jaypee Institute of Information Technology, A-10, Sector-62, Noida- 201309, Uttar Pradesh (India) Noida -----</p>
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(57) Abstract :

The present invention relates to a product which is revolutionizing automobile security. Further, the product of the present invention is a one-point solution which can authenticate the current user, track it via GPS and keep a log of the travel history. Additionally, also have some safety features to tackle the emergency situations. Furthermore, the present invention setup with biometric (fingerprint) which is connected the cloud and this whole setup is the one which authenticate the current user. After successful authentication, the GPS is activated and projects the live location to the cloud which is to be accessed by the user through the online portal for which the login id and password of the user required. In case of the theft of the vehicle, the vehicle can be halted remotely through the same portal by providing a secure pin.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027279 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : Internet of things-based utensil for temperature control using device

(51) International classification :C12M 010000, G08G 010100, H01L 210270, H04L 671250, H04N 052250
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The concept of IOT enabled an internet of things (IoT) application-based smart solution for a plant tank. Users may regulate the environmental conditions of the plant aquarium with the aid of this clever device. The technology will be used in this investigation to regulate the temperature and light intensity. The ESP32 microcontroller and light sensor are the pieces of hardware that were used to construct this system. Mitigation of intolerable incidents in the house by bursting of milk pan and automatic temperature sensor with automatic power off LPG supply makes this invention unique.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027335 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL ALCOHOL DETECTION DEVICE

<p>(51) International classification :A61B 050100, A61B 050205, A61B 053490, B60K 280600, B60W 301800</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Lovely Professional University, Address of Applicant :Lovely Professional University, Delhi Jalandhar GT Road Phagwara- 144411. Phagwara ----- ----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Palvai Manoj Kumar Address of Applicant :Lovely Professional University, Delhi Jalandhar GT Road Phagwara- 144411. Phagwara ----- ----</p> <p>2)Ruhul Amin Choudhury Address of Applicant :Lovely Professional University, Delhi Jalandhar GT Road Phagwara- 144411. Phagwara ----- ----</p> <p>3)Mandeep Singh Address of Applicant :Lovely Professional University, Delhi Jalandhar GT Road Phagwara- 144411. Phagwara ----- ----</p> <p>4)Priyanaka Chandani Address of Applicant :Noida Institute of Engineering and Technology, Greater Noida Greater Noida Uttar Pradesh 201306 Greater Noida -----</p> <p>5)Bhaskar Pant Address of Applicant :Graphic Era University, Bell Road, Society Area, Clement Town,Dehradun Uttarakhand India 248002 Greater Noida -----</p>
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(57) Abstract :

The novel alcohol detector device is designed to prevent alcohol-related accidents by providing real-time feedback to the user. The device comprises a processing module (101), a sensor module (102), an alert module (103), a feedback module (104), and a GPS module (105). The sensor module detects the presence of alcohol in the user's breath or skin, and the processing module (101) analyzes the data to determine the user's level of intoxication. If the user's alcohol level is above the legal limit, the alert module (103) sounds an alarm and alerts the user to the danger of driving or operating machinery. The feedback module (104) provides the user with suggestions on how to reduce their alcohol consumption and tracks their progress over time. The GPS module (105) can be used to track the user's location and send alerts to designated contacts if the user is driving while intoxicated. Overall, the novel alcohol detector device has the potential to save lives and reduce the number of alcohol-related accidents on the roads.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027516 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN ARCHAEOLOGICAL ANALYSIS

(51) International classification :G06N 030400, G06N 030800, G06N 050000, G06N 070000, G06N 200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN ARCHAEOLOGICAL ANALYSIS Abstract The present invention relates to a system for applying machine learning and carbon dating in archaeological analysis may be included in embodiments of the present disclosure. This system may include a data input module for receiving radiocarbon dating data and associated archaeological information. Additionally, embodiments may include a system for applying machine learning and carbon dating in archaeological research. A processing module that utilises machine learning techniques to perform an analysis of the data obtained from radiocarbon dating may also be included in embodiments. A module for producing age estimates, confidence intervals, and visualisations based on the study may also be included in certain embodiments.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027517 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DRONES AND PHOTOGRAMMETRY IN ARCHAEOLOGICAL DOCUMENTATION

(51) International classification :B64C 390200, G01C 110200, G01C 110600, G06F 087300, G07C 050800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

DRONES AND PHOTOGRAMMETRY IN ARCHAEOLOGICAL DOCUMENTATION Abstract The present invention relates a method for the documenting of archaeological sites that makes use of drones in conjunction with photogrammetry techniques. For the aim of acquiring aerial photographs of an archaeological site, this system may include a drone that is fitted with a camera and designed specifically for that task. In certain implementations, there is additionally a data processing module, which is used to process the captured photographs by making use of photogrammetry techniques. This module is included in some implementations. Another component that might be included in some embodiments is an output module that, based on the processed photographs, can produce 3D models, orthophotos, and a wide variety of other visualisations.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027518 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MANAGING CIVIL ADMINISTRATION IN A SMART CITY

(51) International classification :B60L 533100, E03F 050600, G02B 031400, G06Q 502600, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

MANAGING CIVIL ADMINISTRATION IN A SMART CITY Abstract In some embodiments of the present disclosure, there is the potential for there to be a method provided for administering the civil administration of a smart city. This approach may include gathering data from a wide range of sources and analysing it in order to keep an eye on and maintain control over the functioning of the city. One more feasible form is making use of the data that has been reviewed to determine and rank the most critical areas that need growth. Another potential component of embodiments is the application of solutions to problem areas that have been identified via the process of discovery. It may be required to further monitor the implementation of the solutions in some embodiments in order to ensure that they are effective. This may be the case in certain cases.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027519 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF A SMART FACTORY SYSTEM USING INDUSTRIAL AUTOMATION TECHNOLOGIES

(51) International classification :G05B 130400, G05B 190500, G05B 194180, G06Q 500400, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Design and implementation of a smart factory system using industrial automation technologies Abstract Embodiments of the present disclosure may include a smart factory system including a plurality of industrial automation devices. Embodiments may also include a control unit, and a data storage unit. In some embodiments, the control unit may be configured to receive and process data from the industrial automation devices and to control the operation of the industrial automation devices based on the processed data, and the data storage unit may be configured to store the data received from the industrial automation devices and the processed data.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD OF GENERATING SAMPLE LABELS

<p>(51) International classification :G01N 350000, H02M 013200, H04L 010000, H04L 272000, H04N 071730</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, INDIA New Delhi -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Hariprasath J Address of Applicant :HCL Technologies Limited No 602/3 Elcot Economic Zone, Sholinganallur Village, Medavakkam High Road Chennai, Tamil Nadu, India, 600119 Chennai -----</p> <p>2)Anurag Dash Address of Applicant :HCL Technologies Limited No 602/3 Elcot Economic Zone, Sholinganallur Village, Medavakkam High Road Chennai, Tamil Nadu, India, 600119 Chennai -----</p> <p>3)Rakesh Kumar Sidharthan Address of Applicant :HCL Technologies Limited No 602/3 Elcot Economic Zone, Sholinganallur Village, Medavakkam High Road, Chennai Tamil Nadu, India, 600119 Chennai -----</p>
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(57) Abstract :

SYSTEM AND METHOD OF GENERATING SAMPLE LABELS ABSTRACT The method and system for generating sample labels is disclosed. The method includes receiving, from a user, a selection of: one or more icons from a plurality of icons; and one or more backgrounds from a plurality of backgrounds. The method further includes creating a first plurality of variation-icons corresponding to each of the one or more icons, by applying one or more pre-augmentation operations to each of the one or more icons and selecting a set of variation-icons from a second plurality of variation-icons corresponding to the one or more icons, based on dimensions of each variation-icon of the set of variation-icons and predefined dimensions of a sample label template. The method further includes applying a background to the sample label template and positioning the set of variation-icons in the sample label template over the background, to generate a sample label. [To be published with FIG. 1]

No. of Pages : 35 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027575 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR AN ARCHITECTURAL FRAMEWORK FOR DESIGN OF AN INTERACTIVE CONTENT DELIVERY SYSTEM USING MACHINE LEARNING MODEL

(51) International classification :G06F 169500, G06N 030400, G06N 030800, G06N 200000, G06N 201000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Sarveshwaran R

4)Dr. Amar Saraswat

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(57) Abstract :

For at least one user, at least one user profile is made. The user's interests and preferences may be reflected in the profile. Based on the user profile, a multimedia tale is created, and a unique presentation of the multimedia story is created. According to the delivery situation, the user sees the customised presentation.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027576 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : NOVEL ISOLATED BIOFUNCTIONAL AGENT FROM CESTRUM NOCTURNUM FLOWER AND ITS INBUILT PROPERTIES IN DRUG DELIVERY

(51) International classification :A61K 091600, A61P 030400, A61P 252400, C07K 140050, C12N 050775
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Prof. N V Satheesh Madhav

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(57) Abstract :

The present invention relates to the isolation and characterization of a biomaterial from Cestrum nocturnum flower petals using a cost-effective solvent treatment method. The biopolymer was further used to prepare a sustained-release formulation of lamotrigine loaded bionanosuspension using bath sonication method. Various formulations were evaluated for pH study, dispersibility study, entrapment efficacy, zeta particle size, zeta potential, in-vitro release study, stability studies, and in-vitro study. The optimized formulation showed significant drug release for more than 36 hours at a very low dose in a sustained manner, which confirmed its polymeric nature and novel properties. This invention highlights the potential of biopolymers in nanosuspensions for drug delivery, with enhanced bioavailability and reduced systemic toxicity.

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027578 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : FABRICATION OF GRAPHENE OXIDE-BASED IMMUNOCHIP FOR THE DETECTION OF VITAMIN D3

<p>(51) International classification :A23K 201740, A23L 331500, A61K 086700, A61K 313750, C22C 380600</p> <p>(86) International Application No.:NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- ----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SURBHI SHARMA Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 2)SHAGUN GUPTA Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 3)ADESH K SAINI Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 4)SASANKA CHAKRABARTI Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 5)SANT RAM Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 6)RAJU KUMAR GUPTA Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR, KANPUR 208016, UTTAR PRADESH, INDIA ----- 7)KOMAL SHUKLA Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR, KANPUR 208016, UTTAR PRADESH, INDIA ----- 8)REENA V. SAINI Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 9)ANKUR KAUSHAL Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----</p>
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(57) Abstract :

FABRICATION OF GRAPHENE OXIDE-BASED IMMUNOCHIP FOR THE DETECTION OF VITAMIN D3 In this invention, graphene oxide nanoparticles were incorporated into paper electrodes, creating a cost-effective material that served as a matrix for developing an immunosensor. Using modified Hummer's method, graphene oxide was synthesized and subsequently drop-cast onto the surface of a screen-printed paper electrode (SPPE), resulting in enhanced electrochemical signal. Thereafter, SPPE was modified with functionalized 25-hydroxy Vitamin D3 monoclonal antibody using cross-linking chemistry of EDC: NHS and later BSA was used as a blocking agent. The antigen was captured on the modified working electrode and electrochemical characterization studies were performed using differential pulse voltammetry (DPV), cyclic voltammetry (CV) and electrochemical impedance spectroscopy (EIS). For electrochemical measurements, K3[Fe (CN)6]3-/4- (5mM in PBS buffer, pH 7.2) was utilized as a redox indicator. The developed immunosensor showed a sensitivity of 0.36 mA/mm2/pg and LOD 30.93 pg/μL for electrochemical detection of vitamin D3.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027378 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : IDENTITY CARD HOLDER

(51) International classification :A45C 111800, B42D 252300, G06F 162455, G09F 032000, H04B 013816
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

IDENTITY CARD HOLDER The present invention relates to an identity card holder. The holder includes a base, an identity card pouch, a transparent plastic pouch, and an electronic device. The present invention provides an electronic system comprising of a mic for amplifying the user's voice, a laser for pointing the bullets during the presentation going on a screen, an at least one button for generating an actuation signal for switching ON and OFF the mic and the laser, and a controller integrated with a communication module and connected to the button switches ON or OFF the mic, and the laser-based actuation signal received from the user. Figure 1
Dated this 31st day of March, 2023 Pooja IN/PA/1838 Agent for the Applicant

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027379 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : FORMULATION OF SNEDDS OF RASPBERRY KETONE FOR THE TREATMENT OF HYPERLIPIDEMIA

(51) International classification	:A61K 094800, A61K 312020, A61K 367300, A61P 030600, A61P 091000	(71)Name of Applicant : 1)Meerut Institute of Engineering and Technology Address of Applicant :NH-58, Baghpat Road Crossing, Bypass Road, Meerut-250005, India Meerut ----- 2)Shobhit Kumar 3)Anoop Kumar 4)Km. Shipam Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Shobhit Kumar Address of Applicant :Associate Professor, Department of Pharmaceutical Technology, Meerut Institute of Engineering and Technology, NH-58, Baghpat Road Crossing, Bypass Road, Meerut-250005, India Meerut -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

FORMULATION OF SNEDDS OF RASPBERRY KETONE FOR THE TREATMENT OF HYPERLIPIDEMIA The present invention relates to a formulation of SNEDDS of raspberry ketone comprising raspberry ketone. Particularly, the present invention relates to a process for the preparation of formulation of SNEDDS of raspberry ketone comprising raspberry ketone. Fig. 1 Dated this 3rd day of February, 2023 Pooja IN/PA/1838 Agent for the Applicant

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027381 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : FORMULATION FOR GASTRO RETENTIVE PULSATILE DRUG DELIVERY OF RIZATRIPTAN BENZOATE FOR CHRONOTHERAPY OF MIGRAINE

<p>(51) International classification :A61K 090000, A61K 092000, A61K 092400, A61K 314196, A61P 250600</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Jitendra Singh Yadav Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Bareilly, Uttar Pradesh, India Bareilly -----</p> <p>2)Dr. Arti Gupta 3)Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy) Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Jitendra Singh Yadav Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Bareilly, Uttar Pradesh, India Bareilly -----</p> <p>2)Dr. Arti Gupta Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Bareilly, Uttar Pradesh, India Bareilly -----</p> <p>3)Mistry Brijalben Dipakbhai Address of Applicant :Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umrakh, Surat, Gujarat, India Bareilly -----</p> <p>---</p>
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(57) Abstract :

FORMULATION FOR GASTRO RETENTIVE PULSATILE DRUG DELIVERY OF RIZATRIPTAN BENZOATE FOR CHRONOTHERAPY OF MIGRAINE The present invention relates to a formulation and evaluation of pulsatile colonic drug delivery for chronotherapy of migraine. The formulation comprises of a core tablet containing active ingredient rizatriptan benzoate coated in a floating pulsatile release layer of polymer, sodium bicarbonate, citric acid and dicalcium phosphate. The formulation gave a burst release at 8hr and optimum drug release at 10hr that is convenient for migraine disease because migraine symptoms arises at early morning. This combination of floating and pulsatile principle is suitable for site and time specific drug delivery to achieve improved therapeutic efficacy. Dated this 22nd day of March, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027382 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ORAL COLON SPECIFIC NANOPARTICLES OF NOSCAPINE FOR TREATING CANCER AND METHOD OF PREPARATION THEREOF

(51) International classification :A61K 095100, A61K 317390, A61P 010000, A61P 350000, C07D 136900		(71)Name of Applicant : 1)Dr. Jitendra Singh Yadav Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Bareilly, Uttar Pradesh, India Bareilly -----
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Filing Date	:NA	3)Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy)
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
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(57) Abstract :

ORAL COLON SPECIFIC NANOPARTICLES OF NOSCAPINE FOR TREATING CANCER AND METHOD OF PREPARATION THEREOF The invention relates to the field of nanoparticles and discloses the noscapine nanoparticles and its method of preparation thereof and the use of these nanoparticles in the treatment of colon cancer. The nanoparticles are composed of a) Noscapine, b) Eudragit S100, c) Acetone, d) Methanol, e) PVA and f) Distilled Water. The nanoparticles were synthesised by water-in-oil-in water and evaluated for Particle size, PDI, Zeta potential and cytotoxicity study. Dated this 22nd day of March, 2023
POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 18 No. of Claims : 6

(54) Title of the invention : ROTATING SPOILERS WITH MAGNUS EFFECT

(51) International classification :B63H 090200, B64C 230800, B64C 390000, F03D 010600, F03D 030000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a novel spoiler system for aircraft that utilizes the Magnus effect. The spoiler consists of plurality of rotating cylinders (101) positioned at the mean chord position of the wing and is powered by a motor (102) and gear assembly. The system may be controlled to adjust lift and drag as required, promoting lift in the presence of headwinds, reducing speed during landing, and correcting for adverse yaw and uneven movement caused by crosswinds. The present invention provides a replacement for conventional air braking mechanisms, offering a more efficient and convenient means of controlling aerodynamic performance in a wide range of aircraft.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027337 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PORTABLE HIGH-PRESSURE STEAM STERILIZATION DEVICE FOR SOILLESS CULTIVATION

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(51) International classification	:A01G 310000, A01G 310200, A61B 011200, A61L 020700, A61L 022600	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention describes a portable unit for sterilizing growing media using high-pressure steam for soilless cultivation. This invention aims to provide a low-cost and easy-to-use solution that does not require expensive equipment or chemicals. The unit is designed to operate using solar power (101) and includes a sterilization chamber (108), a steam generation chamber (104), a thermostatic valve (109), a pressure regulator (111), a pressure gauge (110), and an outer frame (113). The sterilization process involves heating distilled water in the steam generation chamber (104) and generating high-pressure steam that passes through the sterilization chamber (108), effectively killing harmful microorganisms and bacteria. The system is designed to be durable, weather-resistant, and easy to clean and maintain. The invention provides farmers with a cost-effective and efficient alternative to traditional methods of sterilization, saving time, energy, and labor costs, and eliminating the need for manual sterilization.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027338 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN AIRCRAFT WITH MAGNUS CONTROL DEVICE AND SYSTEM THEREOF

(51) International classification :B63H 090200, B64D 110000, C07K 170000, F03D 010600, F03D 030000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a novel technique using Magnus control, implemented in an aircraft to optimize its aerodynamic efficiency. The technique involves the use of a rotatory cylinder (102) installed in the multi-empennage joint surface (101) of the aircraft, capable of generating lift or drag depending on the direction of rotation at multiple and controlled RPMs. The cylinder (102) is directly connected to the propeller shaft using gears and is controlled by an RPM control system, which allows precise adjustments to the lift and drag generated by the cylinder (102) based on the flying conditions. The technique helps to overcome the contradictions in control surfaces of twin-fuselage (104) aircraft and improves their aerodynamic efficiency.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027339 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ALBATROSS WING DESIGN OF UNMANNED AERIAL VEHICLE

(51) International classification :B64C 390200, B64D 470000, B64D 470800,
G05D 011000, H04B 071850

(86) International Application No.:NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date :NA

(62) Divisional to Application :NA

Number :NA

Filing Date

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(57) Abstract :

The present device and system utilize an airplane wing and propulsion mechanism for designing a novel unmanned aerial vehicle (UAV) system. The associated steps for this mechanism are: employing the albatross-shaped airplane wing to generate high lift; utilizing the fuselage to generate high endurance (approx. 6 hrs) with a payload capacity of 3 kg for sustaining in the harsh environment of sea, and availing the stability for UAV to keep it flying straight at a range of 200 km by both horizontal and vertical stabilizer. The combination of horizontal and vertical stabilizers can be employed in the contemporary aerial vehicle. The said system is more cost-effective, utilized for aerospace and military applications, and helps in designing an unmanned aerial vehicle system with a large aspect ratio.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027579 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYNTHESIS, ANTIBACTERIAL AND DNA PHOTOCLEAVAGE POTENTIAL OF [CU(C₂₀H₁₂N₄O₂)CL₂] MACROCYCLIC METAL COMPLEX

(51) International classification :A61P 310400, C07D 712200, C07D 982200, C23C 181800, H01L 213213		(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
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(57) Abstract :

SYNTHESIS, ANTIBACTERIAL AND DNA PHOTOCLEAVAGE POTENTIAL OF [Cu(C₂₀H₁₂N₄O₂)Cl₂] MACROCYCLIC METAL COMPLEX Metal template synthesis of macrocyclic Cu (II) metal complexes have been carried out by condensation reaction between 1,2-phenylenediamine and maleic anhydride in the presence divalent copper metal salt CuCl₂.2H₂O, leads to the formation of [M(C₂₀H₁₂N₄O₂)X₂] type macrocyclic complex; where M = Cu(II) and X = Cl⁻. Characterization of this metal complex have been accomplished by the electronic spectra, infrared spectra and mass spectral studies. Electronic spectra of complex suggest the octahedral geometry of metal complexes. Antimicrobial activities of this metal complex have been reported against bacterial strain and DNA photocleavage potential of Cu (II) macrocyclic complex was also explored using agarose gel electrophoresis. Results reveals the excellent DNA photocleavage activity and antibacterial behaviour against Staphylococcus aureus at 200mg/ml.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/04/2023

(21) Application No.202311027595 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING ROAD CONDITIONS ON HIGHWAYS USING IOT

(51) International classification :B60Q 015200, B60W 400600, B60W 401090, E01C 230100, F16H 594000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is to provide the system and method for detection of road conditions and the early warning messages, which is used for carrying out comprehensive evaluation and analysis of road information. The present invention is a method for breakages detection using GPS Enable system through IOT. Based on the speed variation and the GPS, the system will tell the details of the breakages presence on the road. This invention will be helpful for the people to notify in prior about the coming breakage on the roads. The figure 1 and figure 2 describe the details of the present invention.

No. of Pages : 22 No. of Claims : 4

(54) Title of the invention : NOVEL BRAIN COMPUTER INTERFACE (BCI) SYSTEM ASSISTED WITH LI-FI FOR INTERPRETATION OF NEUROCHEMICAL SIGNALS

<p>(51) International classification :A61B 050000, A61N 010500, A61P 250600, G06F 030100, H04B 101160</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Kashish Parwani Address of Applicant :Associate Professor, JECRC College, Jaipur, B-90, Basant Bahar Colony, Gopalpura, Mode Jaipur, Rajasthan Jaipur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kashish Parwani Address of Applicant :Associate Professor, JECRC College, Jaipur, B-90, Basant Bahar Colony, Gopalpura, Mode Jaipur, Rajasthan Jaipur -----</p> <p>2)Dr. Renu Bist Address of Applicant :Associate Professor, Department of Zoology, Centre of Advanced Studies, University of Rajasthan, JLN Marg, Jaipur 302004 Rajasthan, India Jaipur -----</p> <p>---</p> <p>3)Dr. Vandna Rani Verma Address of Applicant :Assistant Professor, Sharda University, Greater Noida,E293 gamma-1, Greater Noida Greater Noida -----</p> <p>-----</p> <p>4)Mr.Sandeep Das Address of Applicant :Associate consultant at Infosys, Near janta chaki pratap colony ward no. 3 , chanderiya chittorgarh,312021 Rajasthan Chhittorgarh -----</p>
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(57) Abstract :

The present invention relates to a novel Brain Computer Interface (BCI) system (100) assisted with Li-Fi for interpretation of neurochemical signals. The system comprises a Brain Signal Unit (10), which includes an electroencephalogram (EEG) unit (11) , an ECoG (Electrocorticography) unit (12), a signal acquisition and processing unit, a (13) nd a light communication unit (14) for processing and communicating the acquired brain signals using Li-Fi technology. The system also includes a Demodulator Unit (20) for receiving and demodulating the light signal, and a Brain Processing Unit (30) that employs a machine learning algorithm to process the demodulated signal, detect mental status and mental diseases of the subject, and communicate the processed signal to external devices (40) for further observation or processing. The invention provides a non-invasive, efficient, and secure BCI system for interpreting neurochemical signals and offers improved data transmission speed, security, and reduced susceptibility to noise or interference..

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/04/2023

(21) Application No.202311027700 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANALYSIS OF ONLINE PHARMACY DEVELOPMENT IN URBAN AREA OF INDIA

(51) International classification :A61K 367400, C23C 140800, E01C 010400, G06Q 502600, G16H 201000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The growth of the Indian online pharmacy industry has increased in urban areas over the last decade. By examining the distribution of Indian pharmacy clicks and the demographic changes in urban areas, the scope and potential for online pharmacy development in India is determined. The analysis indicates that the growth of online pharmacies is largely driven by the proliferation of the mobile phone and internet connectivity and the increasing acceptance of online technologies and digital payments. The growth of digital healthcare services further amplifies this trend. A comparison of online and brick-and-mortar pharmacies reveals that online pharmacies are increasingly preferred due to convenience and better prices. Challenges faced by the online pharmacy industry in terms of affordability, lack of awareness, digital payment acceptance, delivery and regulatory issues are discussed. This paper concludes that online pharmacy, if embraced, can greatly benefit the Indian healthcare eco-system, particularly in urban India.

No. of Pages : 9 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027383 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : WASTE STAPLER PINS

(51) International classification :B25C 051100, B25C 051600, B27F 073800, B42C 011200, F16H 013200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

WASTE STAPLER PINS Accordingly, embodiments herein disclose a waste stapler pins, comprising of: a sustainable composite material developed in which the waste stapler pins is used without compromising in the strength as per the requirements for pavement base course layer. The sustainable composite material stabilizing equal amount of fly ash (FA) and limesludge (LS) with commercial lime (12%) and gypsum (1%) is modified by adding 0 to 10% of waste stapler pins and tested for unconfined compressive strength for use as base course material in flexible pavement. The sustainable composite material has been reported that addition of 3% closed pins have resulted in maximum strength of 5842 kPa and 6780 kPa, respectively after 28 and 45 days of curing. Dated this 27th day of February, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027397 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MULTI-CHANNEL COMMUNICATION SYSTEM AND METHOD THEREOF

(51) International classification	:H04B 070600, H04L 010000, H04L 010600, H04L 050000, H04W 523400
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention provides multi-channel communication system and method thereof. Axiom will be receiving request from bank through database and HTTP/HTTPS interface. Requests received from JDBC will be converted into HTTP/HTTPS and sent to HTTP/HTTPS receiver via the Load Balancer (as applicable). Requests are then segregated in their respective queues. Respective consumer will process the data from queues and sent it to configured vendors (for SMS, Email or WhatsApp channel) for further processing. Once the requests are processed by vendors, they will then send the DLR on HTTPS interface to the DLR component which will enqueue in the respective queue. DLR Consumer will then consume DLR events from queues and update in the Database for reporting purpose.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027398 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : Artificial Intelligence-Powered Candidate Screening And Selection System And Method

(51) International classification :C12N 151000, F16H 590200, G01C 213400, G01N 335000, G06N 200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Abstract Computing and algorithms allow AI to make real-time decisions. AI will impact HRM. HRM professionals know that human-machine learning improves workflow and usability. Preinstalled algorithms and powerful computational technologies enable real-time AI decision-making. Human-AI HRM departments improve applicant and employee experiences. AI helps companies understand their market and promote results-oriented sales strategies. AI gives computers human-like intelligence. Data analysis helps AI machines improve their responses. AI affects HRM's humanity. AI can improve recruitment, onboarding, employee experience, process improvement, and administrative tasks in HRM. Data storage and management are essential for AI. Complex programmes require more staff. HRM AI should analyse data but leave decisions to humans. Identifying AI's strengths before integrating it into HRM can improve employee experience and reduce costs. AI-powered automation will be studied. It assesses the Automation's technology, purpose, and ability to simulate human conversation.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027412 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : System and Method for Multi-criteria Decision-Making in Business Management

(51) International classification :F02D 410000, G06Q 100600, G06Q 101000, G06Q 400000, G06Q 400200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Abstract Real-world decision-making problems are too complex and ill-structured to use a single criterion, attribute, or perspective to make the best decision. A one-dimensional approach oversimplifies the problem and leads to unrealistic decisions. Consider all relevant factors at once. How can a single evaluation model incorporate multiple, often conflicting factors? Is it the best? Statistics, AI, and operations researchers have attempted to answer the first question. Second, evaluate these efforts. Problem-solvers think differently. Decision makers' preferences, experiences, and policies will affect their judgement. This is crucial for decision-making models. Multiple-criteria decision-making addresses such issues (MCDM). MCDM uses advanced operations research to solve complex decision problems with conflicting criteria, goals, and objectives. Mathematical models that aggregate criteria, viewpoints, and attributes support MCDM decision-making. The decision-maker does not passively develop MCDM models. Support matters. Instead, a decision model iteratively analyses and represents the decision maker's preferences. MCDM's decision-support orientation relies on iterative and interactive preference modelling. MCDM differs from statistical and optimization decision-making.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311023055 A

(19) INDIA

(22) Date of filing of Application :29/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ADVANCED GEAR BOX TECHNOLOGY 1

(51) International classification	:E21D 111000, F02C 073200, F02K 030600, F16H 570400, H02K 071160
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

Abstract A uniquely designed & invented gearbox which is capable to drive / propel total 84 no. of complementary gears with 88 no. of total complementary shafts which can overwhelmingly provide multi-utilisation for differential rotary mechanical purposes at very same time / process in almost all areas of engineering industries.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026726 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A CONFIGURABLE SRAM-BASED IN-MEMORY COMPUTATION (IMC) ACCELERATOR

(51) International classification :G06N 030630, G11C 114190, G11C 150400, H01L 230000, H04L 093200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a configurable SRAM-based in-memory computation (IMC) accelerator with improved linearity for multi-bit MAC and high-throughput XAC operations, which are extensively used in neuromorphic computing. The linearity of the multi-bit MAC operations is improved by using the proposed scaled-voltage-based PCM approach. The improved linearity provides the maximum signal margin of 44.3 mV at 1 V amplitude of the PCM signal, which is validated by the linearity analysis of MAC operation and extensive SPICE simulation. The proposed single capacitor discharge approach has low latency, no deterministic error in XAC outputs, and less variation than the traditional charge-sharing approach. Figures 1 and 2

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311028812 A

(19) INDIA

(22) Date of filing of Application :20/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A GREEN PROCESS FOR SYNTHESIS OF 4TH GENERATION BENZOXAZINE MONOMERS

(51) International classification :A61P 251800, C07D 651600, C12N 012000, C12N 155200, C12P 071800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A GREEN PROCESS FOR SYNTHESIS OF 4TH GENERATION BENZOXAZINE MONOMERS ABSTRACT The present invention relates to a green process for the synthesis of 4th generation benzoxazine monomers with oxazine-ring substituted at the 2-position represented by general formula 1. The bio-derived chemicals o-vanillin (oV), vanillin (V), furfurylamine (fa), and benzaldehyde (ph) are utilized to obtain the monomers, oV-fa-[2]ph, oV-fa-[2]ov and oV-fa-[2]v, in a solventless microwave-assisted method. These monomers are utilised as single or composite hybrid materials ranging from small to large industrial applications like these thermosetting polymers employed for applications such as construction, locomotive, packaging industry, coatings, self- healants, sealants, adhesives, etc. Ref. Scheme 1 and 2

No. of Pages : 34 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311029843 A

(19) INDIA

(22) Date of filing of Application :25/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL PROCESS TO PREPARE THE SAMPLES FOR SCANNING ELECTRON MICROSCOPY

(51) International classification :B23K 352600, H01B 051400, H01J 372600, H01J 372800, H01R 430200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention describes thenovel process to prepare the samples for scanning electron microscopy. The simple and cost-effective process has been developed to observe in-vivo host-pathogen interaction.For the sample preparation in scanning electron microscopy study for maize leaves infected with fungal pathogen Bipolaris maydis, which causes maydis leaf blight disease.In the sample preparation by using said novel process, Critical Point Drying step (CPD) has been replaced by drying the sample using low-cost vacuum desiccator. In the said process, osmium tetra oxide has not been used because of its high cost but instead of that a combination of aldehyde solvents has been used, which provides fine quality of SEM images.The said novel process to prepare the sample for scanning electron microscopy is cost-effective and industrially scalable.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027427 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NANOFIBER PATCH COMPRISING HYDROCHLOROTHIAZIDE, AND A GREEN METHOD FOR PREPARING THEREOF

(51) International classification :A61K 097000, A61K 315490, B01J 350000, C07D 852800, D01D 050000		(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(86) International Application No	:PCT//	2)Chitkara Innovation Incubator Foundation
Filing Date	:01/01/1900	Name of Applicant : NA
(87) International Publication No	: NA	Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
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(57) Abstract :

The present disclosure pertains to a topical or transdermal delivery of an active agent in a therapeutically effective amount. In particular, the present disclosure provides a nanofiber patch comprising an active agent, a water soluble and/or biodegradable polymer and a nanofiber protective layer; and a method for preparing thereof.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027431 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MAGNETIC NANOADSORBENT, METHOD OF ITS PREPARATION THEREOF AND METHOD OF REMOVAL OF TOXIC CONTAMINANTS

(51) International classification :B01J 202800, C02F 012800, C05B 170000, C08G 638500, C12N 151000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present disclosure relates to a magnetic nanoadsorbent of formula 1. The present disclosure also provides a method of preparation of a magnetic nanoadsorbent of formula 1. The present disclosure also relates to a method of removal of toxic contaminants from waste water using magnetic nanoadsorbent of formula 1. The process of removal of toxic contaminates like Cr(VI) from waste water using of the present disclosure is a kinetically and thermodynamically feasible process.

No. of Pages : 25 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027473 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATIC SMART REAL TIME WEATHER PREDICTION SYSTEM USING IOT AND MACHINE LEARNING FOR SMART AGRICULTURE SYSTEM

(51) International classification :G01W 010000, G01W 011000, G06N 200000, G06Q 500200, H02J 031400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
AUTOMATIC SMART REAL TIME WEATHER PREDICTION SYSTEM USING IOT AND MACHINE LEARNING FOR SMART AGRICULTURE SYSTEM Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society The Internet of Things (IoT) and machine learning are two intelligent technologies that have recently gained prominence. There are numerous options for IoT hardware systems. The ESP8266 is an example of a chip of this variety. This work implements a technique for producing accurate real-time weather forecasts. This method can be utilized to predict the weather in residences, offices, farms, parks, and other areas. The procedure employs a light-dependent resistor and a digital thermo-hygrometer. Utilizing a NodeMCU and an ESP8266-01 module, the sensor data is transmitted to a cloud server managed by ThingSpeak. A dedicated HTML page where the data can be viewed in real time has also been developed. A logistic regression model is the most crucial element of machine learning. This model is trained using historical sensor values. In addition to receiving sensor measurements such as temperature, humidity, and light level, NodeMCU transmits them to a Jupyter notebook operating in a Python environment. The information collected by NodeMCU is then transmitted to a Python environment. The connected NodeMCU lead displays a projected value based on the real-time data used to validate the model.

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027479 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COLLABORATIVE LEARNING SYSTEM USING SOCIAL MEDIA AND CLOUD TECHNOLOGY SLOPE ONE SCHEME

<p>(51) International classification :G06F 162700, G06Q 101000, G06Q 500000, H04L 515200, H04L 671000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Gurpreet Singh Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Punjab Institute of Technology (A Constituent College of MRSPTU Bathinda), Near ITI Chowk, Rajpura, Patiala-140401, Punjab, India. Patiala ----- 2)Dr. Aashdeep Singh 3)Dr. Amanpreet Kaur 4)Dr. Amandeep Kaur 5)Dr. Neera Batra 6)Dr. Amit Kumar Manocha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Gurpreet Singh Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Punjab Institute of Technology (A Constituent College of MRSPTU Bathinda), Near ITI Chowk, Rajpura, Patiala-140401, Punjab, India. Patiala ----- ----- 2)Dr. Aashdeep Singh Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Punjab Institute of Technology (A Constituent College of MRSPTU Bathinda), Near ITI Chowk, Rajpura, Patiala-140401, Punjab, India. Patiala ----- ----- 3)Dr. Amanpreet Kaur Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Patiala- 140401, Punjab, India. Patiala ----- ----- 4)Dr. Amandeep Kaur Address of Applicant :Professor, Computer Science & Engineering Department, M.M.E.C, Maharishi Markandeshwar (Deemed to be) University, Mullana-133203, Haryana, India. Mullana ----- 5)Dr. Neera Batra Address of Applicant :Professor, Department of Computer Science & Engineering, Maharishi Markandeshwar (deemed to be University), Mullana, Ambala-133203, Haryana, India. Mullana ----- 6)Dr. Amit Kumar Manocha Address of Applicant :Associate Professor, Department of Electrical Engineering, Punjab Institute of Technology, GTB Garh, Moga, (MRSPTU, Bathinda), Kotkapura-Moga Road, Moga-142049, Punjab, India. Moga -----</p>
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(57) Abstract :

ABSTRACT A COLLABORATIVE LEARNING SYSTEM USING SOCIAL MEDIA AND CLOUD TECHNOLOGY SLOPE ONE SCHEME During the last few years, social media technologies have started to be used for collaborative learning. While most of the case studies reported so far involve a single social media tool or several individual, separate tools, in this paper we advocate the use of an integrated social learning environment, which aggregates several Web 2.0 tools (wiki, blog, microblogging tool, social bookmarking tool, media sharing tools). The platform, called EMUSE, occupies a well defined niche in the landscape of Web 2.0-enhanced learning spaces, providing value-added services for both students and teachers: learner tracking functionality, monitoring and visualization features, grading and evaluation support. A comprehensive rationale underlying EMUSE, a description of the platform architecture and functionalities, as well as an experimental validation in a project-based learning context are provided in the invention. While the learn-then-deploy approaches achieve promising results in many scenarios, data heterogeneity and variability throw impediment in the way of deploying pre-learned models to a large cluster of end devices. On the other hand, learning on devices like smartphones suffers from limited data, computing power and energy budget. This invention proposes Colla, a collaborative learning approach for behaviour prediction that allows cloud and devices to learn collectively and continuously. Colla finds a middle ground to build tailored model for each device, leveraging local data and computation resources to update the model, while at the same time exploits cloud to aggregate and transfer device-learned knowledge across the network to solve the cold-start problem and prevent overfitting.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027722 A

(19) INDIA

(22) Date of filing of Application :15/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF HERBOMINERAL OINTMENT FROM BAUHINIA VARIEGATA (LINN.) FOR WOUND HEALING EFFECTS

(51) International classification :A61K 089200, A61K 090000, A61K 090600, A61K 364800, A61P 170200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention related to the formulate and evaluate the herbomineral ointment containing Bauhinia variegata L. extract. Wound healing activity of herbomineral ointment was also evaluated in excision and incision wound models in rats. The ointment was prepared by using Bauhinia variegata extract, prawal bhasma, propylene glycol, stearyl alcohol, white petrolatum and required amount of distilled water. The prepared herbomineral ointment was evaluated for physical appearance, pH, spread ability, skin irritation to observe side effects and also for wound healing activity. It was observed that the herbomineral formulation good in appearance, homogeneity and in excision wound model possessed significant ($p < 0.001$) wound healing effect compared to positive control group and nearly comparable with standard group. In incision wound, the formulation showed significant increase in the skin breaking strength compared to control and reference standard.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027723 A

(19) INDIA

(22) Date of filing of Application :15/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : GREEN SYNTHESIS AND CHARACTERISATION OF GREEN CARBON QUANTUM DOTS (GCQDS) FROM BARGAD /BANYAN LEAVES (FICUS BENGHALENSIS)

(51) International classification :A61K 089700, A61K 366000, B82Y 200000, C09K 116500, H04L 491500		(71)Name of Applicant : 1)JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY (JIIT) Address of Applicant :Jaypee Institute of Information Technology, A-10, Sector-62, Noida-201309, Uttar Pradesh, India Noida -----
(86) International Application No	:NA	Name of Applicant : NA
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(87) International Publication No	: NA	(72)Name of Inventor :
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(57) Abstract :

The present invention is directed toward the synthesis of organic green carbon quantum dots (GCODs) from a common natural herbal resource, Ficus benghalensis. The focus of the invention is to provide a green synthesis process to synthesize non-toxic, biocompatible and tunable fluorescent green carbon quantum dots (GCQDs) by hydrothermal carbonization method. The synthesized GCQDs by the present inventive exhibits exceptional properties such as low toxicity, high stability, strong biocompatibility and fluorescent properties for water dissolved metal ions establishing GCQDs as potential alternatives for the present-day heavy metal ion sensors.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027727 A

(19) INDIA

(22) Date of filing of Application :15/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : GADOLINIUM ORTHOFERRITE DOPED LEAD TITANATE SOLUTION WITH ENHANCED MULTIFERROIC PROPERTIES

(51) International classification :A61K 082800, A61K 083400, A61K 084400, G11C 190800, H01L 272200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT GADOLINIUM ORTHOFERRITE DOPED LEAD TITANATE SOLUTION WITH ENHANCED MULTIFERROIC PROPERTIES The present disclosure discloses a gadolinium orthoferrite doped lead titanate solution with enhanced multiferroic properties. The present disclosure also discloses gadolinium orthoferrite doped lead titanate solution based electrospun nanofibrous mats. The present disclosure also discloses a method (1200) for preparing the gadolinium orthoferrite doped lead titanate solution and a method (1300) for preparing the nanofibrous mats. Table 1, Figures 12, and 13

No. of Pages : 31 No. of Claims : 9

(54) Title of the invention : A SYSTEM EMBEDDED WITH DEEP NEURAL NETWORKS TO ANALYSE STOCK MARKET TRENDS

<p>(51) International classification :A61B 050000, G06N 030400, G06N 030800, G06Q 400400, G06Q 400600</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Er. Rama Nandan Tripathi Address of Applicant :Assistant Professor, MCA, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 ----- 2)ER. Ramesh Mishra 3)Mohd Shahdeen 4)Mohd Arfaz 5)Aryan Srivastava 6)Rohit Pandey Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Er. Rama Nandan Tripathi Address of Applicant :Assistant Professor, MCA, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 ----- 2)ER. Ramesh Mishra Address of Applicant :Assistant Professor, ECE, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 ----- 3)Mohd Shahdeen Address of Applicant :Research Scholar, MCA Department, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 ----- 4)Mohd Arfaz Address of Applicant :Research Scholar, MCA Department, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 ----- 5)Aryan Srivastava Address of Applicant :Research Scholar, MCA Department, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 ----- 6)Rohit Pandey Address of Applicant :Research Scholar, MCA Department, Dr. Ram Manohar Lohia Avadh University, Ayodhya, Uttar Pradesh - 224001 -----</p>
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(57) Abstract :

The present invention relatesto provide a system embedded with deep neural networks to analyse stock market trends.The system depends on historical data and pattern of a stock as well as fundamental of that company. The system collects large data and filter according to patten and comparison with other stocks.The system comprises of various steps such as data collection, data filtration, noise removing, machine learning algorithm, paten analysis, comparison of data, result display. The system provides all recommendations and suggestions in interactive manner therefore understand easily and make decisions accordingly.

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : ANTI-ICING & DE-ICING MECHANISM IN MAG-FOIL

<p>(51) International classification :B64D 150400, B64D 151200, B64D 330200, C09K 031800, F02C 070470</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Lovely Professional University, Address of Applicant :Lovely Professional University, Delhi-Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KHAN, Younus Ayub Address of Applicant :Lovely Professional University, Delhi-Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>2)KAUR, Damanpreet Address of Applicant :Lovely Professional University, Delhi-Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>3)BOORA, Nancy Address of Applicant :Lovely Professional University, Delhi-Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>4)THAKUR, Amit Kumar Address of Applicant :Lovely Professional University, Delhi-Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>5)RAVI, Balaji Address of Applicant :Lovely Professional University, Delhi-Jalandhar GT road Phagwara- 144411. Phagwara ----- ---</p> <p>6)KAPSE, Vinod M Address of Applicant :Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, 201306, Uttar Pradesh, India Greater Noida ----- -----</p> <p>7)PANT, Bhaskar Address of Applicant :Department of computer science and engineering, Graphic Era University, 566/6, Bell Road, Society Area, Clement Town, Dehradun, 248002, Uttarakhand, India Dehradun -----</p>
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(57) Abstract :

The present invention discloses a mechanism for anti-icing and de-icing of Mag-foils (103) used in aircrafts. The Mag-foil (103) comprises a plurality of rotating cylinders (101) that are made of a material suitable for the harsh conditions experienced during flight, and are installed at the mean chord position, and joined by a gear assembly. Coils (102) are installed inside the rotating cylinders (101), which are connected to a power source via a connecting assembly. Electrical motors (104) rotate the cylinders (101), and a control unit receives inputs from sensors, which allows it to regulate the RPM of the cylinders (101). The invention ensures optimal performance in cold and damp conditions, improves safety and efficiency of air travel.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027341 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : HYBRID COMBUSTION CHAMBER

(51) International classification :B25C 010800, B60K 063650, B60K 064450, B60K 064800, B60R 212640

(86) International Application No :PCT// /

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system designed to improve the efficiency, performance, and safety of aircraft engines. The system features a first (101) and second (102) combustion chamber that may switch between two configurations, a cruise type and a thrust type, controlled by fuel injectors (106) and a control unit (104). The system integrates with the FADEC system to optimize engine performance and reliability while providing a better response to failure scenarios. The invention offers improved engine efficiency, increased reliability, and enhanced safety for the aircraft and its passengers, making it a valuable innovation in the aviation industry.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311030264 A

(19) INDIA

(22) Date of filing of Application :27/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MACHINE LERNING BASED SMART AIR POLLUTION MONITORING ALERT AND ALARM SYSTEM

<p>(51) International classification :A61B 050000, A61B 050240, A61B 050800, F24F 110000, G16Z 990000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GANESH AMAN Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----</p> <p>2)GIREESH KUMAR DEVINENI Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 AMBALA -----</p> <p>3)GUJRAL RAJNEESH KUMAR Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 AMBALA -----</p> <p>4)GUJRAL HARDIK Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 AMBALA -----</p>
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(57) Abstract :

MACHINE LERNING BASED SMART AIR POLLUTION MONITORING ALERT AND ALARM SYSTEM The present invention is related to a smart air quality monitoring system which employs machine learning on sensed and measured pollutant gases concentration for determining the air quality index in plurality of locations defined with in confined locality, sector or a district including residential, commercial and industrial area. The system includes plurality of sensor nodes (101) placed strategically in plurality of geographical locations (109) connected to a central IoT server (103) through a plurality of IoT gateway (102) established in the each selected geographical location, a central controller (104) with an embedded machine learning algorithm, an alarm module (106), a display module (105), an alert module (107) and a customized mobile app (108). The invention is particlaurly helpful in the governance and controlling the air pollution in tactical and effective manner.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311030442 A

(19) INDIA

(22) Date of filing of Application :27/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD TO PREDICT PROPERTY PURCHASE PRICE

(51) International classification :G06F 215500, G06Q 300200, G06Q 300600, H02J 030000, H02J 130000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a system and method to predict property purchase price using artificial intelligence. The method includes registering one or more entities with a platform upon providing user details. The method also includes receiving information of a property to be anticipated of price. The method further includes verifying the received information for null values and for verifying a datatype of the received information. The method also includes subjecting the information to a data cleaning process, for removing unwanted data and for converting raw data to a pre-defined format, for obtaining clean data. The method also includes transferring the clean data to an artificial intelligence (AI) model, for enabling prediction process. The method further includes predicting the property purchase price of the property in real time via the AI model using an artificial intelligence technique.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202311027480 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MULTI-AGENT APPROACH FOR DEVICES MANAGEMENT AND CONTROL IN IOT ENVIRONMENTS SLOPE ONE SCHEME

<p>(51) International classification :H04L 510000, H04L 671200, H04L 671250, H04L 675000, H04L 675650</p> <p>(86) International Application No :PCT// :01/01/1900</p> <p>Filing Date</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Amanpreet Kaur Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Patiala-140401, Punjab, India. Patiala -----</p> <p>-----</p> <p>2)Dr. Sonali Goyal 3)Shilpa 4)Dr. Neera Batra 5)Dr. Aashdeep Singh 6)Dr. Gurpreet Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Amanpreet Kaur Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Patiala-140401, Punjab, India. Patiala -----</p> <p>-----</p> <p>2)Dr. Sonali Goyal Address of Applicant :Associate Professor, Computer Science & Engineering Department, M.M.E.C, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala-133203, Haryana, India. Ambala -----</p> <p>3)Shilpa Address of Applicant :Assistant Professor, Department of Management, Punjab Institute of Technology, GTB Garh, Moga, (MRSPTU, Bathinda), Kotkapura-Moga Road, Moga-142049, Punjab, India. Moga -----</p> <p>4)Dr. Neera Batra Address of Applicant :Professor, Department of Computer Science & Engineering, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala-133203, Haryana, India. Ambala -----</p> <p>5)Dr. Aashdeep Singh Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Punjab Institute of Technology (A Constituent College of MRSPTU Bathinda), Near ITI Chowk, Rajpura, Patiala-140401, Punjab, India. Patiala -----</p> <p>-----</p> <p>6)Dr. Gurpreet Singh Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Punjab Institute of Technology (A Constituent College of MRSPTU Bathinda), Near ITI Chowk, Rajpura, Patiala-140401, Punjab, India. Patiala -----</p> <p>-----</p>
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(57) Abstract :

ABSTRACT A MULTI-AGENT APPROACH FOR DEVICES MANAGEMENT AND CONTROL IN IOT ENVIRONMENTS SLOPE ONE SCHEME The goal of the Mav Home (Managing an Intelligent Versatile Home) project is to create a home that acts as a rational agent. The agent seeks to maximize inhabitant comfort and minimize operation cost. In order to achieve these goals, the agent must be able to predict the mobility patterns and device usages of the inhabitants. Because of the size of the problem, controlling a smart environment can be effectively approached as a multi-agent task. Individual agents can address a portion of the problem but must coordinate their actions to accomplish the overall goals of the system. In this invention, we discuss the application of multi-agent systems to the challenge of controlling a smart environment and describe its implementation in the Mav Home project

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027481 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING TEST SCRIPTS

		(71)Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, INDIA Delhi ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sourabh Prakash Address of Applicant :HCL Technologies Limited Bangalore SEZ, No. 129, Jigani Bommasandra, Link Road, Jigani Industrial Area Bangalore 562106, India Bangalore ----- 2)Rakesh Kumar Sidharthan Address of Applicant :HCL Technologies Limited No 602/3 Elcot Economic Zone, Sholinganallur Village, Medavakkam High Road, Chennai, Tamil Nadu, India, 600119 Chennai ----- 3)Siva Sakthivel S Address of Applicant :HCL Technologies Limited No 602/3 Elcot Economic Zone, Sholinganallur Village, Medavakkam High Road, Chennai, Tamil Nadu, India, 600119 Chennai ----- 4)Sujeet Kumar Address of Applicant :HCL Technologies Limited No 602/3 Elcot Economic Zone, Sholinganallur Village, Medavakkam High Road, Chennai, Tamil Nadu, India, 600119 Chennai -----
(51) International classification	:B08B 070000, G01C 211600, G06F 113600, H04N 093100, H04N 218100	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD AND SYSTEM FOR GENERATING TEST SCRIPTS ABSTRACT The method and system for generating test script from product requirements is disclosed. The method may include classifying a product requirement into a corresponding category of a plurality of predefined categories, using a first pre-trained machine learning (ML) model and obtaining a set of predefined questions corresponding to the product requirement, based on the category associated with the product requirement, from a database. The method may further include determining an answer-value corresponding to each predefined question of the set of predefined questions, using a second pre-trained machine learning (ML) model and generating a test script based on the set of predefined questions and the answer value corresponding to each question of the set of questions. [To be published with FIG. 3]

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : HUMAN RESOURCES MANAGEMENT THROUGH HR ANALYTICS AND ARTIFICIAL INTELLIGENCE

<p>(51) International classification :G06N 200000, G06Q 100600, G06Q 101000, G06Q 300200, H04W 761600</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Seema Bhakuni Address of Applicant :Assistant professor, Faculty of Management, Doon Group of Institutions, Shyampur Rishikesh, Uttarakhand, India – 249204. Rishikesh -----</p> <p>2)Himanshi Mittal 3)Dr. Padmini S 4)Dr. Balaji Gurunath Kamble</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Seema Bhakuni Address of Applicant :Assistant professor, Faculty of Management, Doon Group of Institutions, Shyampur Rishikesh, Uttarakhand, India – 249204. Rishikesh -----</p> <p>2)Himanshi Mittal Address of Applicant :Assistant Professor, Department of Management and Commerce, Hi-tech Institute of Engineering and Technology, Ghaziabad, India - 201015 Ghaziabad -----</p> <p>----</p> <p>3)Dr. Padmini S Address of Applicant :Associate professor, Department of Commerce, Aurora's Degree and PG College, Chikkadpally, Hyderabad, Telangana, India - 500059 Hyderabad -----</p> <p>----</p> <p>4)Dr. Balaji Gurunath Kamble Address of Applicant :Assistant Professor & IQAC Coordinator, Dayanand College of Commerce, Latur, Maharashtra, India – 413512. Latur -----</p>
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(57) Abstract :

ABSTRACT HUMAN RESOURCES MANAGEMENT THROUGH HR ANALYTICS AND ARTIFICIAL INTELLIGENCE The advent of digitalization and technology has spurred the need for making the systems robust and automated for lesser human intervention. The human resource departments are responsible for managing quite complex tasks such as talent acquisition, performance management, compensation, benefits, and other essential employee-related functions. It is not always easy to manage a huge record of employees manually. Earlier Human resource function was more of a transactional and administrative job. However, with changing roles and job profiles the way of doing things has also changed. As businesses have acknowledged the role of Human Resource Management in leveraging the resources available to help organizations achieve a competitive advantage. HR analytics has become essential for businesses to carry out complex tasks and predict the trend for making future strategies. In the modern era, HR analytics is the buzzword for HR professionals. It helps to figure out the gaps in the performance of individuals and teams and suggest methods to fill them with the usage of Artificial Intelligence or other related technologies. In this study, the focus has been directed toward understanding the role of HR Analytics in transforming Human Resource Functions. Sample of 197 respondents from HR team of different organizations were surveyed to know the benefits, challenges and impact of Transforming Human Resource Management with HR Analytics. It is found that there is a significant impact of Transforming Human Resource Management with HR Analytics on an organization.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : ABDOMINAL COLLAPSIBLE MULTI-POSITION RETRACTOR DEVICE WITH A VARIABLE ADJUSTABLE LOCKABLE MECHANISM

<p>(51) International classification :A61B 170200, A61B 905000, F04B 271800, H03M 074000, H04L 272600</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Swami Rama Himalayan University Address of Applicant :Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016, India Dehradun -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sunil Kumar Saini Address of Applicant :Department of Surgical Oncology, Cancer Research Institute, Himalayan Institute of Medical Sciences, Swami Rama Himalayan University, Dehradun, Uttarakhand, 248016, India Dehradun -----</p> <p>2)Anshika Arora Address of Applicant :Department of Surgical Oncology, Cancer Research Institute, Himalayan Institute of Medical Sciences, Swami Rama Himalayan University, Dehradun, Uttarakhand, 248016, India Dehradun -----</p> <p>3)Sourabh Nandi Address of Applicant :Department of Surgical Oncology, Cancer Research Institute, Himalayan Institute of Medical Sciences, Swami Rama Himalayan University, Dehradun, Uttarakhand, 248016, India Dehradun -----</p> <p>4)Chandra Shekhar Nautiyal Address of Applicant :Himalayan School of Biological Sciences, Swami Rama Himalayan University, Dehradun, Uttarakhand, 248016, India Dehradun -----</p>
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(57) Abstract :

The present invention provides an abdominal collapsible multi-position retractor device with a variable adjustable lockable mechanism (3). An object of the present invention is to provide the abdominal collapsible multi-position retractor device with a variable adjustable lockable mechanism (3) that provides ease of connectivity with commonly used retractors due to the plurality of adaptability joints which secure the interchangeable parts together and offer the ability to move in several directions as per the surgery requirement to be performed. Figure 3

No. of Pages : 26 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2023

(21) Application No.202311030702 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANGULATION EVALUATOR FOR DENTAL HANDPIECE

(51) International classification :A61C 010000, A61C 010500, A61C 010800, A61C 011800, A61F 090070
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ANGULATION EVALUATOR FOR DENTAL HANDPIECE Accordingly, embodiments herein disclose an angulation evaluator for dental handpiece, comprising of: a bubble on the head of handpiece. The bubble can move buccally and the bur simultaneously when the handpiece is lingually moved. The bubble can tell about the angulation for a specific procedure including cavity preparation and surgical implant placement and vice versa. During the cavity preparation for amalgam restoration the external tooth walls are prepared in such a way that converges occlusally. When the amalgam is placed in the preparation and hardens, the amalgam cannot be dislodged. The placement of dental implants at a correct position as per the esthetic, biological, and functional perspective still remains a challenge, because the trajectory of implants is seldom consistent with that of natural teeth due to the bone loss that follows extraction. Figures to be published with Abstract: Figures 1 and 2 Dated this 21st day of April; 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311030703 A

(19) INDIA

(22) Date of filing of Application :28/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : BLOCKCHAIN-ENABLED SUPPLY CHAIN MANAGEMENT SYSTEM

(51) International classification :G06F 162480, G06Q 100600, G06Q 100800, H04L 093200, H04L 452800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

BLOCKCHAIN-ENABLED SUPPLY CHAIN MANAGEMENT SYSTEM Accordingly, embodiments herein disclose a blockchain-enabled supply chain management system for providing transparency, traceability, and security for companies managing complex global supply chains. The system includes a dedicated server which is configured to host a blockchain network. Further, the supply chain management system requires a robust and reliable hardware infrastructure to ensure transparency, traceability, and security. The hardware infrastructure is designed to handle the processing of transactions, the storage of data, and the execution of smart contracts. The system is also designed with multiple layers of security having a backup and recovery plan in place to ensure that the data is safe in case of a disaster or system failure. Dated this 19th day of April, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311030704 A

(19) INDIA

(22) Date of filing of Application :28/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SECURE AND RELIABLE PAYMENT SYSTEM

(51) International classification :G06F 094510, G06Q 204000, H04L 090800, H04L 656000, H04L 670600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

A SECURE AND RELIABLE PAYMENT SYSTEM Accordingly, embodiments herein disclose a secure and reliable payment system comprising a Rpay which is a system based application. The Rpay system based application is performed to: register the users on a platform of Rpay, link the bank accounts to the application, and to authenticate the Iris using the UIDAI incase of India and others in case of foreign countries. The biometric Iris data is saved in an Rpay database in a highly secure 256-bit encrypted form. When the customer or Rpay user scans the Iris on merchant system against a payment amount, the application will check its database to verify the Iris and pop up the customer name on screen and can ask for PIN to authenticate the payment. Then, the customer authenticates the payment by entering the PIN and processing the payment. Figure to be published with Abstract: Figure 1 Dated this 19th day of April, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : DEVELOPMENT OF A PREDICTIVE MAINTENANCE SYSTEM FOR INDUSTRIAL EQUIPMENT USING MACHINE LEARNING ALGORITHMS

(51) International classification :G05B 194180, G05B 230200, G06N 070000, G06N 200000, G06Q 100000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

DEVELOPMENT OF A PREDICTIVE MAINTENANCE SYSTEM FOR INDUSTRIAL EQUIPMENT USING MACHINE LEARNING ALGORITHMS Abstract A method for developing a predictive maintenance system for industrial equipment using machine learning algorithms may be included in embodiments of the present disclosure. This method may include collecting data from sensors placed on the industrial equipment to monitor its performance and condition. In certain embodiments, there is additionally a step called preprocessing, which involves eliminating noise, outliers, and missing values from the data that was gathered. In certain embodiments, there is also the possibility of feature engineering, which is the process of extracting useful features from preprocessed data. In certain embodiments, there is also the possibility of using a machine learning algorithm on the extracted information in order to build a predictive model that may anticipate upcoming failures in equipment. Validating the correctness and performance of the trained prediction model by utilizing test data is another component that may be included in embodiments. In certain embodiments, it may also be possible to implement a predictive maintenance system on industrial equipment in order to monitor the status of such equipment and anticipate breakdowns in advance of their occurrence.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027486 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : INVESTIGATION OF THE IMPACT OF AUTOMATION ON THE JOB MARKET IN THE MANUFACTURING INDUSTRY

<p>(51) International classification :G06Q 100600, G06Q 400400, G06Q 500400, H02J 070000, H02J 070200</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>		<p>(71)Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MR. CHANDRAVEER SINGH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>2)DR. ANSHUMAN SHASTRI Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>3)MR. LOKESH KUMAR SUMAN Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>4)MR. JITENDER MAHARSHI Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p>
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(57) Abstract :

INVESTIGATION OF THE IMPACT OF AUTOMATION ON THE JOB MARKET IN THE MANUFACTURING INDUSTRY
Abstract A system for anticipating the effect of automation on the employment market in the manufacturing sector may be included in certain embodiments of the present disclosure. This system may comprise a database for storing data on the amount of automation in firms that are involved in manufacturing. Embodiments may further contain a module for analysis, which is used to analyze the obtained data in order to determine the degree to which automation has resulted in job displacement. In certain embodiments, there is also the possibility of including a prediction module, which makes use of machine learning algorithms to make projections about the influence that automation will have in the future on the labor market.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027487 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ROBOTIC SYSTEM FOR MATERIAL HANDLING AND LOGISTICS OPTIMIZATION IN MANUFACTURING FACILITIES

(51) International classification :A61B 343000, B25J 091600, B65D 190000, G06Q 100400, G06Q 100800		(71)Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
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(57) Abstract :

Robotic system for material handling and logistics optimization in manufacturing facilities Abstract A robotic system for material handling and logistics optimization in manufacturing facilities may be included in some embodiments of the present disclosure. This robotic system may include a number of autonomous mobile robots that are capable of transporting materials between predetermined locations within the manufacturing facility. A central control system that is able to receive and analyze data pertaining to the manufacturing process, as well as determine the most efficient routing and scheduling for the autonomous mobile robots based on the data that has been evaluated, may also be included in embodiments. In other embodiments, a user interface may also be included, with the purpose of allowing real-time monitoring and control of the robotic system.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027488 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PREDICTIVE MAINTENANCE SYSTEM FOR INDUSTRIAL ROBOTS USING MACHINE LEARNING ALGORITHMS

(51) International classification :G05B 230200, G06N 030400, G06N 050200, G06N 070000, G06N 200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Predictive maintenance system for industrial robots using machine learning algorithms Abstract In some embodiments of the current disclosure, there is the potential for there to be an integrated predictive maintenance system for industrial robots. This system would make use of machine learning techniques. This system could include a data collecting module that is meant to take operational data from the industrial robot. If it does, then this would be one of its functions. In certain implementations, there is also a machine learning module that is provided, and this module is configured to conduct an analysis of the operating data and construct a predictive maintenance model. In certain embodiments, there is also a possibility of including a maintenance prediction module. This module is designed to be able to accept a predictive maintenance model and then produce a maintenance forecast for an industrial robot. An additional component that may be included in embodiments is a user interface module that is configured to show the maintenance prediction to a user. This module may also be included.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027489 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SMART ROBOTIC SYSTEM FOR QUALITY CONTROL IN MANUFACTURING PROCESSES

(51) International classification :A61B 343000, B25J 091600, G05B 194180, G06F 169535, H04L 122800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

SMART ROBOTIC SYSTEM FOR QUALITY CONTROL IN MANUFACTURING PROCESSES Abstract A smart robotic system for quality control in manufacturing processes may contain one or more robotic arms equipped with sensors for recognizing flaws in made items. Such a system may be included in embodiments of the current disclosure. A central processing unit may also be included in certain embodiments. This device is responsible for collecting data from the sensors and directing the movement of the robotic arms. In certain embodiments, there may additionally be a machine learning module included for the purpose of evaluating the data and identifying patterns of problems. A user interface for showing the results of the quality control process may also be included in embodiments in certain circumstances.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027490 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DIGITAL RECONSTRUCTION OF ANCIENT BUILDINGS AND MONUMENTS

(51) International classification :C04B 115400, C04B 117200, C04B 414800, C09D 076100, E04G 230200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

DIGITAL RECONSTRUCTION OF ANCIENT BUILDINGS AND MONUMENTS Abstract The present invention relates to a system for the digital reconstruction of ancient buildings or monuments may be included in some embodiments of the present disclosure. This system may include a data collection module for the purpose of acquiring data related to the ancient buildings or monuments in question, such as images, measurements, and historical records. A reconstruction module that is able to analyse the obtained data and produce three-dimensional (3D) digital representations of the historical structures or monuments may also be included in embodiments. A visualisation module that may show the three-dimensional digital models in an environment that allows for interaction may also be included in embodiments.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : INVESTIGATION OF THE IMPACT OF INDUSTRIAL AUTOMATION ON PRODUCT QUALITY AND RELIABILITY

(51) International classification :B07C 053400, G01R 313880, G01R 313890, G05B 194180, G06Q 100600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

INVESTIGATION OF THE IMPACT OF INDUSTRIAL AUTOMATION ON PRODUCT QUALITY AND RELIABILITY

Abstract The present disclosure may include embodiments that include an apparatus for investigating the impact of industrial automation on product quality and reliability. This apparatus may include a data collection module that is configured to collect data on the use of automated systems in the manufacturing process. In addition, the present disclosure may include an apparatus for investigating the impact of industrial automation on product quality and reliability. An analysis module that is able to evaluate the obtained data and determine whether or not there is a link between the usage of automated systems and product quality and dependability is another component that embodiments may include. A reporting module that is designed to create a report based on the data that has been examined and that gives insights into the influence that industrial automation has on product quality and dependability may also be included in embodiments.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027492 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : OPTIMIZATION OF ENERGY CONSUMPTION IN INDUSTRIAL AUTOMATION PROCESSES USING ARTIFICIAL INTELLIGENCE TECHNIQUES

<p>(51) International classification :G05B 194180, G06F 012600, G06N 050000, G06N 200000, G06T 070000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>		<p>(71)Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. PAWAN KUMAR PATHAK Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>2)DR. ANSHUMAN SHASTRI Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p> <p>3)DR. VIVEK PRAKASH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----</p>
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(57) Abstract :

Optimization of energy consumption in industrial automation processes using artificial intelligence techniques Abstract The present disclosure may include a method for optimizing energy consumption in an industrial automation process using techniques from artificial intelligence, such as collecting data from sensors and devices contained within the industrial automation process. This method may be included in embodiments of the present disclosure. Processing the acquired data using an artificial intelligence system in order to find patterns and trends in energy use is another possible aspect of embodiments. In certain implementations, one of the goals is to find ways to reduce energy use by analyzing data in order to spot potential possibilities. Using energy-saving techniques inside the industrial automation process in order to capitalize on possibilities that have been recognized is another potential aspect of embodiments.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027493 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : STUDY OF THE IMPACT OF INDUSTRY 4.0 TECHNOLOGIES ON INDUSTRIAL AUTOMATION

(51) International classification :F16K 350000, F16K 370000, G05B 194180, G07C 092800, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Study of the impact of Industry 4.0 technologies on industrial automation Abstract The present disclosure may include embodiments that include a method for studying the impact that Industry 4.0 technologies have had on industrial automation. The method may include collecting data on the adoption and implementation of Industry 4.0 technologies in industrial automation systems. This data may include information on the types of technologies that have been implemented, as well as the industries and sectors. It's possible that they're being put to use, depending on the specifics of the programmed and the scenario. In some embodiments, there is also an analysis of the collected data that identifies patterns and trends in the adoption and implementation of Industry 4.0 technologies. This analysis may include an evaluation of the benefits and challenges associated with their use, as well as the identification of potential areas for further development and improvement in the system. The generation of a report that provides a summary of the results of the study and makes suggestions to industry stakeholders on how they may enhance their automated processes and outcomes using Industry 4.0 technology is another possible embodiment.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027503 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : TELEMEDICINE TO IMPROVE ACCESS TO HEALTHCARE FOR TRIBAL COMMUNITY

(51) International classification :A61B 050000, A61B 170680, A61B 173200, G16H 406700, G16H 800000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

TELEMEDICINE TO IMPROVE ACCESS TO HEALTHCARE FOR TRIBAL COMMUNITY Abstract The existing disclosure may allow for the deployment of a chatbot system with the intention of assisting a user in reducing their feelings of social anxiety. A system like this one may include an AI engine that is pre-programmed to take in information from the user and analyze it. In certain embodiments, there is additionally a user interface that may be incorporated. This user interface has the capability of collecting input from users and showing output that is developed in a responsive manner by an artificial intelligence engine. In certain implementations, there is also a social anxiety reduction module that is designed to provide responsive output depending on the analysis of user input performed by an AI engine. This kind of module may be included. Positive affirmations, exercises in mindfulness, exposure treatment, and cognitive-behavioral therapy are some examples of what could be included in the response output.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027504 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AI ENABLED CHATBOT TO REDUCE SOCIAL ANXIETY

(51) International classification :A61K 313430, A61P 252200, G16H 207000, H04L 510200, H04L 515200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

AI ENABLED CHATBOT TO REDUCE SOCIAL ANXIETY Abstract In some embodiments of the present disclosure, there is the potential for there to be a system that is designed to anticipate the impact that automation will have on the job market in the manufacturing sector. This system could include a database that stores information on the degree to which manufacturing companies are using various forms of automation in their operations. A module for analysis may also be included in embodiments. This module is used to perform analysis on the collected data in order to assess the extent to which automation has resulted in job displacement. In certain implementations, there is also the possibility of including a prediction module. This module makes use of machine learning algorithms in order to make projections about the impact that automation will have in the future on the labour market. For example, the module could predict how many jobs will be lost due to automation.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027505 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AI-POWERED INFORMATION RETRIEVAL FOR LIBRARY USERS

(51) International classification :C12N 151000, G06F 163300, G06F 169510, G06N 030400, G11B 172200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

AI-POWERED INFORMATION RETRIEVAL FOR LIBRARY USERS Abstract The existing disclosure may allow for the deployment of a chatbot system with the intention of assisting a user in reducing their feelings of social anxiety. A system like this one may include an AI engine that is pre-programmed to take in information from the user and analyze it. In certain embodiments, there is additionally a user interface that may be incorporated. This user interface has the capability of collecting input from users and showing output that is developed in a responsive manner by an artificial intelligence engine. In certain implementations, there is also a social anxiety reduction module that is designed to provide responsive output depending on the analysis of user input performed by an AI engine. This kind of module may be included. Positive affirmations, exercises in mindfulness, exposure treatment, and cognitive-behavioral therapy are some examples of what could be included in the response output.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027506 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE PLATFORM TO IMPROVE SOCIALIZATION OUTCOMES FOR INDIVIDUALS WITH AUTISM

(51) International classification :G06N 050400, G06N 200000, G16H 106000, G16H 406700, G16H 502000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ARTIFICIAL INTELLIGENCE PLATFORM TO IMPROVE SOCIALIZATION OUTCOMES FOR INDIVIDUALS WITH AUTISM Abstract A method for improving socialisation outcomes for individuals with autism may be included in embodiments of the present disclosure. This method may include receiving data on the individual's socialisation skills, such as data from wearable devices, video recordings, and feedback from carers or socialisation coaches. Moreover, embodiments may comprise analysing the data using an artificial intelligence system in order to discover areas that might be improved, such as recognising patterns of behaviour that may lead to challenges in socialising. Moreover, embodiments may involve the generation of individualised socialising objectives for the individual based on the identified areas for development. Examples of such goals include keeping eye contact, starting discussions, and interpreting social signals. It is also possible for embodiments to incorporate the presentation of individualised socialising objectives to the individual and/or a carer through a user interface, such as a mobile application or online portal, and the provision of feedback on the individual's or caregiver's progress towards the goals.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/04/2023

(21) Application No.202311030470 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : PHARMACEUTICAL FORMULATION FOR TREATMENT OF CANCER

(51) International classification :A61K 393950, A61K 450600, A61P 350000, A61P 350200, C07D 051400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relatesto provide a pharmaceutical formulation for treatment of cancer. Cancer is treated by surgery, radiation therapy, chemotherapy, targeted therapy, and immunotherapy. The choice of pharmaceutical formulation is depended on various factors such as the type and stage of the cancer, the patient's overall health, and other individual factors.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2023

(21) Application No.202311030517 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : LULICONAZOLE LOADED MICROSPONGE TOPICAL FORMULATION

(51) International classification :A61K 090000, A61K 314178, A61P 170000,
A61P 311000, C07D 090600
(86) International Application No.:NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
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(62) Divisional to Application :NA
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(57) Abstract :

ABSTRACT LULICONAZOLE LOADED MICROSPONGE TOPICAL FORMULATION The present invention relates to a luliconazole loaded micro sponge topical formulation comprising of luliconazole as an active ingredient, polymers, emulsifiers, organic solvent loaded into a gel base to form a topical gel for a topical application. The present invention provides for controlled release with minimum side-effects. Reference Fig 1

No. of Pages : 26 No. of Claims : 4

(54) Title of the invention : DEVICE FOR CONVERSION OF NORMAL PROJECTION SURFACE TO TOUCH SENSITIVE SMART PROJECTION SCREEN

<p>(51) International classification :G03B 215800, G06F 011600, G06F 030100, G06F 030410, G06F 031400</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Arun Kumar Yadav Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 2)Dr. Mohit Kumar 3)Aryan Verma 4)Mohit Kumar Singh 5)Manav Yadav 6)Abhishek Sheoran 7)Manish Thakur 8)Rohit Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Arun Kumar Yadav Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 2)Dr. Mohit Kumar Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 3)Aryan Verma Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 4)Mohit Kumar Singh Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 5)Manav Yadav Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 6)Abhishek Sheoran Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 7)Manish Thakur Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur ----- 8)Rohit Kumar Address of Applicant :National Institute of Technology Hamirpur. Himachal Pradesh, Pin No. 177005, India. Hamirpur -----</p>
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(57) Abstract :

The invention relates to a portable assembly for conversion of normal projection surface to touch sensitive smart projection screen. In one embodiment, the assembly includes a projector and a conversion device operatively coupled with the projector, the device includes at least one camera, a processor having one or more modules and a memory, the modules include a computer vision algorithm, the projector and the device forms an assembly. The assembly configure for converting any projection surface into a touch sensitive surface which will work with the help of a pointing device by executing a computer vision algorithm, wherein the configuring including analysing by the camera for the detection of the position of the pointing device on the projected surface, calibrating, upon detection of the pointing device using four plus icons projected on the surface and creating a touch effect programmatically when a nib of the pointing device is pressed on the projected surface which illuminates a red colour light thereby facilitating to provide impression of touch effect on the projected surface. FIG. 3

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311029874 A

(19) INDIA

(22) Date of filing of Application :25/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SOLAR-POWERED ADIABATIC COOLING SYSTEM FOR PERISHABLE FOOD PRESERVATION

(51) International classification :A23L 033418, B65D 812000, F24F 050000, F25D 170400, F25D 290000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
SOLAR-POWERED ADIABATIC COOLING SYSTEM FOR PERISHABLE FOOD PRESERVATION According to an embodiment, a solar-powered adiabatic cooling system for perishable food preservation is disclosed. The system provides an eco-friendly and energy-efficient alternative to traditional refrigeration. The system comprises an inner chamber for storing perishable food items and an outer chamber that houses the inner chamber, offers thermal insulation, protection from external elements, and mounting structures for various components. Grass pads are situated between the chambers, facilitating evaporative cooling through adiabatic processes. A water dripping and recirculating system maintains moisture in the grass pads, while fans mounted on the outer chamber force outside air through these pads. Solar panels mounted on the outer chamber supply power to the system components, ensuring off-grid and remote operation. A temperature control mechanism maintains a desired preservation temperature within the inner chamber, ensuring optimal storage conditions for perishable goods. The system offers a sustainable solution for food preservation in various settings, particularly where traditional refrigeration methods are inaccessible or impractical. (FIG. 1 will be reference)

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027507 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DISPLAYING DEMOGRAPHIC DATA OF COMMUNITY MEMBERS

(51) International classification :G06Q 300200, G10L 150800, H04N 057600, H04N 071800, H04N 212668
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
DISPLAYING DEMOGRAPHIC DATA OF COMMUNITY MEMBERS Abstract Embodiments of the present disclosure may include a system for displaying demographic data of community members, including a data storage unit for storing demographic data of community members. Embodiments may also include a data processing unit for processing the stored demographic data. Embodiments may also include a display unit for displaying the processed demographic data in a user-friendly graphical format that may be easy to understand and interpret.

No. of Pages : 27 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202314004704 A

(19) INDIA

(22) Date of filing of Application :24/01/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : BODY COMPRESSION SLEEPWEAR WITH A LEG OPENING

(51) International classification	:A47G 9/08, A61M 21/02	(71)Name of Applicant : 1)Hug Sleep Inc. Address of Applicant :980 Michael Drive, Brookfield, WI 53045, USA -----
(31) Priority Document No	:17/142,396	Name of Applicant : NA
(32) Priority Date	:06/01/2021	Address of Applicant : NA
(33) Name of priority country	:-----	(72)Name of Inventor :
(86) International Application No	:NA	1)Mundt, Matthew J.
Filing Date	:NA	Address of Applicant :980 Michael Drive, Brookfield, WI 53045, USA -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Body compression sleepwear with a leg opening preferably includes a body portion, a neck portion and a leg cover. The body portion includes a first body sheet and a second body sheet. The first and second body sheets include a width which is greatest at the top and smallest at a bottom. A top of the leg cover overlaps a bottom of the first body sheet. Outer sides of the first and second body sheets are sewn to each other to form a body opening at a top and a leg opening at a bottom. A portion of a perimeter of the leg cover is sewn to the bottom perimeter of the second body sheet with exception of a top of the leg cover. A bottom of the neck portion is sewn to a top of the first and second body sheets. However, the neck portion could be eliminated.

No. of Pages : 32 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311030919 A

(19) INDIA

(22) Date of filing of Application :30/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD TO FABRICATE BIOPOLYMER-BASED SWITCHABLE NANOPARTICLES FOR ORAL DELIVERY OF ANTI-CANCER DRUGS

<p>(51) International classification :A61K 094800, A61K 095100, C09D 031200, H01L 231300, H01L 234950</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Indian Institute Of Technology, Mandi Address of Applicant :IP & TT Cell, SRIC Office, IIT Mandi, Kamand, Himachal Pradesh 175005, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ankur Sood Address of Applicant :School of Chemical Sciences, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----</p> <p>2)Aastha Gupta Address of Applicant :School of Chemical Sciences, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----</p> <p>3)Garima Agrawal Address of Applicant :School of Chemical Sciences, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----</p>
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(57) Abstract :

A method (100) to fabricate biopolymer-based switchable nanoparticles for oral delivery of anti-cancer drugs may be provided. The anti-cancer drugs may be both hydrophobic and hydrophilic in combination. The method (100) may include formation (110) of thiolated Stearic acid (TSA) (102) and the formation (120) of thiolated chitosan (TCS) (103). Further, the method (100) may include combining (130) thiolated Stearic acid (TSA) and thiolated chitosan (TCS) to obtain biopolymer-based switchable nanoparticles (104). Further, hydrophobic (105) and hydrophilic (106) anti-cancer drugs may be encapsulated (140) in fabricated biopolymer-based switchable nanoparticles. The fabricated biopolymer-based switchable nanoparticles may be disulfide crosslinked biopolymer. FIG. 1

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317001890 A

(19) INDIA

(22) Date of filing of Application :09/01/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A BALANCING DEVICE FOR PREVENTING ACCIDENTAL FALL OUT OF A WIRELESS EARBUD

(51) International classification :H04R 1/10
(31) Priority Document No :63/051493
(32) Priority Date :14/07/2020
(33) Name of priority country :-----
(86) International Application No :PCT/IB2021/056213
Filing Date :10/07/2021
(87) International Publication No :WO 2022/013701
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Provided herein is a balancing device for preventing accidental fall out of a wireless earbud OR TWS, when the wireless earbud is dislodged during any activity such as but not limited to exercise or running activities. The balancing device includes a flexible element arranged to wrap around the back of the ear; and a counterweight, wherein the flexible element is configured to hang over the top of a user's ear and the counterweight is attached to the flexible element to counteract the weight of the wireless earbud, thereby the wireless earbud is stopped from slipping off and falling to the ground, when the earbud is accidentally dropped or dislodged from the ear. The balancing device is compatible with a regular ear-rings or any other ear jewellery with a metal plate with a hole.

No. of Pages : 10 No. of Claims : 15

(54) Title of the invention : A MACHINE FOR REDISPERSIBILITY OF MAGNETORHEOLOGICAL FLUIDS

(51) International classification :H01F0001440000, F16F0009530000, F16D0037020000, F16D0057000000, B24B0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A MACHINE FOR REDISPERSIBILITY OF MAGNETORHEOLOGICAL FLUIDS The present invention relates to a machine for redispersibility of magnetorheological fluids that is independent of particle size or the viscosity of the carrier fluid or the additives used in preparation of the MRFs. The redispersion, settled MRF sample are subjected to reciprocating motion provided by slider (4) crank (1) mechanism. The induction motor (2) rotates the crank (1) and the rotating motion of eccentric crank (1) is transmitted to slider (4) through coupler (3). The MRF sample is filled in test tube (10), closed by test tube cap (7), sealed by O ring (16) and clamped in sample holder (6), which is fastened to slider (4) using screw joint (11). Fig.1

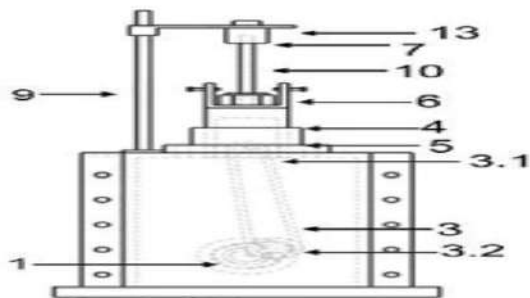


Fig. 1

No. of Pages : 26 No. of Claims : 3

(54) Title of the invention : AN OLEO GEL COMPOSITION

(51) International classification :A61K0009000000, A61K0047320000, A61K0009060000, A61K0047140000, A61K0047100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

The present disclosure provides an oleo gel composition comprising: (a) mixture of glycerides; (b) polyols; (c) a thickener; (d) a surfactant; and (e) excipients. The oleo gel composition of the present disclosure provides long term hydration. The oleo gel composition has good sensorial hair benefits. The oleo gel composition of the present disclosure provides a topical delivery system.

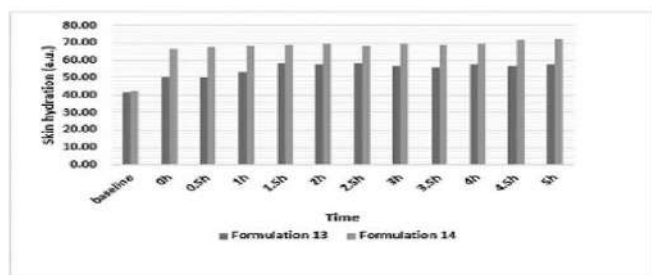


Figure 1

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : COMPOSITION FOR COATING INTRAVENOUS CANNULA, TUBES AND VASCULAR DEVICES, METHODS AND USES THEREOF

(51) International classification :C08K0003220000, C09D0007400000, A61K0031734000, C08K0003260000, C09D0007610000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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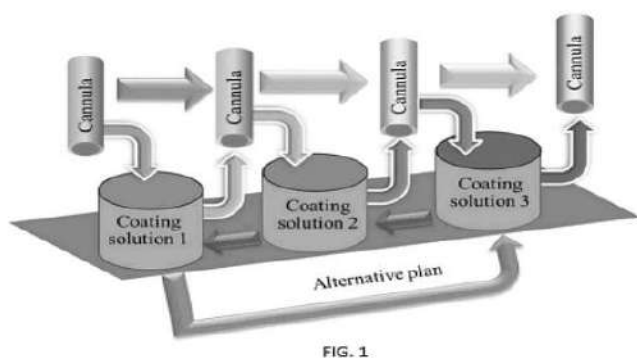
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(57) Abstract :

ABSTRACT Composition for coating intravenous cannula, tubes and vascular devices, methods and uses thereof The present invention relates to composition for coating intravenous cannulas, tubes and vascular devices, methods and uses thereof. The coating composition disclosed herein is suitable for prevention of cannulization or catheterization induced thrombophlebitis. The coating composition provides sustained release of therapeutic agents and reduces health care cost by reducing the requirement for re-cannulation and treatment for thrombophlebitis associated with cannulization or catheterization. FIG. 1



No. of Pages : 55 No. of Claims : 72

(54) Title of the invention : MULTIPASSAGE SOLAR RECEIVER

(51) International classification :F24S0020200000, B29B0007180000, B29B0007740000, B29B0007720000, B29B0007560000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

A multi-passage type solar receiver is hereby disclosed. It is of cylindrical shaped. It is formed using copper plates 1 and metallic 2 and non-metallic 3 gaskets. The incident radiation 10 meets at the focus 6 where very high temperature generates due to concentration. The assembly of copper plates and gaskets is made using nut and bolts 10. The internally extended surfaces of copper plates are blackened, which act as fins and absorb solar radiation concentrated at the focus, since fins are embedded deep into the high-temperature-focal-zone 6. The working fluid flows through the adjacent passages 4 in opposite directions. The working fluid gains energy from the heated copper plates while flowing through the passages made using plates 1 and gaskets 2, 3. The focus is located axially and radially in the middle of the receiver. So, the gradual heating of working fluid keeps a check on the outer temperature of the receiver that emits less energy to the outer ambience and improves device efficiency.

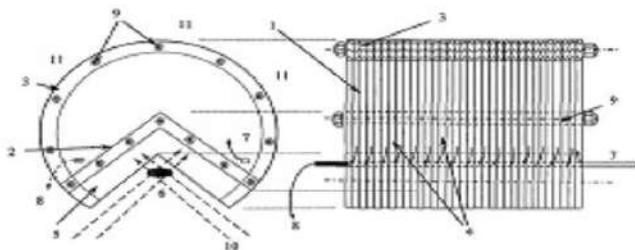


FIGURE 1

No. of Pages : 4 No. of Claims : 1

(54) Title of the invention : MAGNETRON APPARATUS WITH A NOVEL STRAPPING FOR IMPROVING THERMAL PERFORMANCE

(51) International classification :H01J0025587000, H04W0036140000, B65B0013180000, A41D0031080000, H04W0048160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a magnetron apparatus with a novel strapping configuration for improving thermal performance as compared to the conventional straps. The magnetron apparatus (200) comprises an anode (1) comprising a cylindrical body (50), a plurality of vanes (15) arranged concentrically within the body (50), a plurality of straps (11, 21, 11a, 21a) circumferentially arranged and connected the plurality of vanes (15) using supports (41, 42, 41a, 42a, 51, 52) and a cathode (2) positioned centrally in the anode (1) within a cavity formed by the vanes (15) and straps. The plurality of strap rings (11, 21, 11a, 21a) are placed away from the interaction space (region between the cathode (2) and vanes (15)) and only connected to the outer edges of the straps improving thermal performance of the magnetron. Shifting the straps further away increases the inductances due to the increased length of strap material between consecutive vanes. Figure 2 (a)

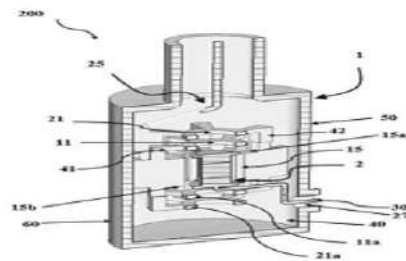


Figure 2 (a)

No. of Pages : 21 No. of Claims : 17

(54) Title of the invention : A COMPOSITION FOR MULTI-FUNCTIONAL CATALYST FOR IMPROVING CARBONIZATION OF METALLURGICAL COKE

(51) International classification :C10B0057040000, C10B0001040000, C22B0005060000, B27M0001060000, C21C0005460000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A COMPOSITION FOR MULTI-FUNCTIONAL CATALYST FOR IMPROVING CARBONIZATION OF METALLURGICAL COKE The present invention relates to a composition for a multi-functional catalyst utilized for carbonization of metallurgical coke comprising of an activated carbon, fullerene compounds, manganic acetylacetonate, chalcantite, and reducing agents, in which the composition is utilized to increase yield and quality of the coke. A process for formation of coke using the multi-functional catalyst is also disclosed. Fig. 1

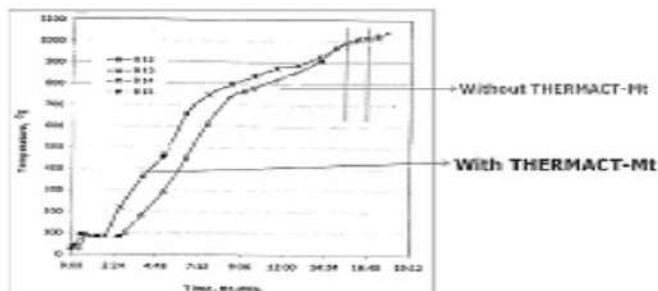


FIG. 1

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : PLANTATION SYSTEM AND METHOD FOR PLANTING A SEEDLING

(51) International classification :A01G0009029000, C02F0001320000, H01M0010052500, A01G0031060000, A61M0016160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

PLANTATION SYSTEM AND METHOD FOR PLANTING A PLANT Plantation system (100) is a low-cost and easy-to-install to provide adequate soil, water and air desired for seedling growth by preventing stress on seedling due to inadequate soil, water and air resulting in survival of seedlings which in prior-arts does not survive. Plantation system (100) includes water reservoir (10), inlet pipeline (11) and container (20). Container (20) is defined with a hole (21) receives water from water reservoir (10) through the inlet pipeline (11) and an internal partition (22). Internal partition (22) creates central inner space (22a) to receive soil (05) and peripheral outer space (22b) to receive water (12) and air. Roots (30a) of a seedling (30) are in contacts with the soil (05) and the water (12) and air within the container (20) and the stem (30b) of seedling (30) is projecting-out of the container (20) in atmospheric space. (To be published with Figure 1)

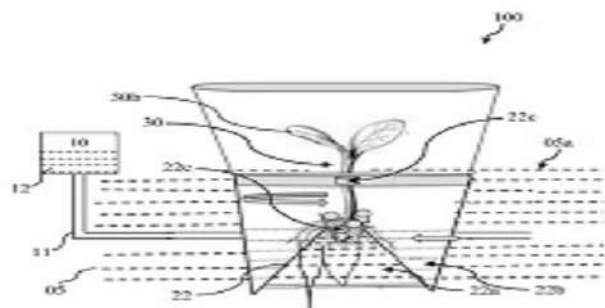


FIGURE 1

No. of Pages : 32 No. of Claims : 7

(54) Title of the invention : SYSTEMS AND METHODS FOR RESPONSIBLE AI

(51) International classification :G06N0003080000, G06N0003063000, G06N0020000000, G06N0003040000, G06T0001200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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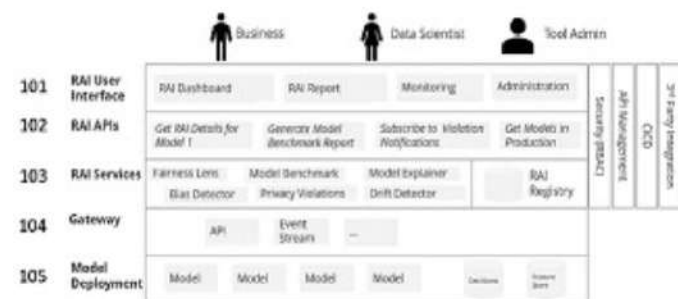
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Address of Applicant :Flat 7, 11 Millennium Drive, London, E14 3GH, United Kingdom -----

(57) Abstract :

ABSTRACT SYSTEMS AND METHODS FOR RESPONSIBLE AI Systems and methods for responsible artificial intelligence (AI) may provide an end-to-end framework from defining what responsible behavior and guidance are to the components that developers can leverage to detect and measure bias. API components may be provided at the model training and deployment stage to mitigate bias. Deployed components may then be linked to fairness monitoring APIs in a machine learning operations framework to integrated in the enterprise.

FIGURE 1



No. of Pages : 36 No. of Claims : 20

(54) Title of the invention : INTELLIGENT DRYER SYSTEM

(51) International classification :D06F0058200000, B01D0053260000, F26B0021000000, D06F0058300000, D06F0025000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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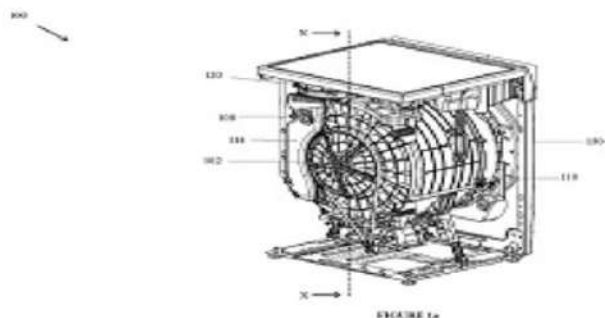
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Address of Applicant :RnD Department, IFB Industries Ltd. of Verna Industrial Estate, Verna – 403722, Goa, India -----

(57) Abstract :

The present disclosure relates to a dryer system (100) including a heater (112) which heats up incoming air to a predetermined temperature. A drum (110) is located downstream to the heater (112) and dries articles of the drum (110) with inflow of heated air (154), the heated air (154) dries the articles and acquires moisture content. An air outlet unit (118) is positioned into the drum (110) and vents out a first portion of moist air (156-1) from the drum (110). A primary condensation unit (114) is located downstream to the drum (110) and condenses moisture to dry up a second portion of the moist air to dry. An air inlet (108) is positioned at a top of the primary condensation unit (114) and intromits atmospheric air (138) into the dryer system (100), the atmospheric air (138) adapted to mix with a condensed air (152). <



No. of Pages : 35 No. of Claims : 11

(54) Title of the invention : APPARATUS FOR PERFORMING SUPERFINISHING OPERATION ON THREADS OF A BALL SCREW

(51) International classification :F16H0025220000, B24B0035000000, F16H0025240000, F16H0025200000, B24B0021180000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :201621020178

Filed on :13/06/2016

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

The present disclosure relates to the field of superfinishing technology. In particular, the present disclosure relates to an apparatus (100) for performing finishing operation on a ball screw (40). The apparatus (100) comprises a holder (42) for holding the ball screw (40), a replaceable finishing tool (10) defining threads (10B) complementary to the threads (40A) of the ball screw (40), and a drive mechanism (44) for rotating the holder (42) to facilitate angular displacement of the ball screw (40) relative to the threads (10B) of the replaceable finishing tool (10) to perform a finishing operation on the threads (40A) of the ball screw (40).The apparatus disclosed in the present disclosure can be used for performing super-finishing operations on a ball screw or any other kind of a screw.

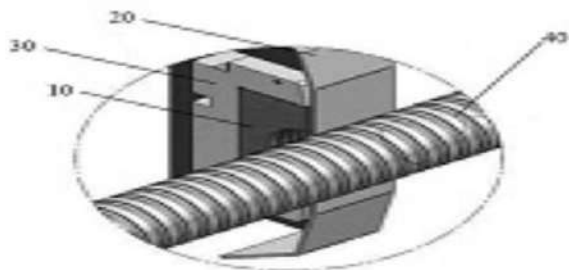


Fig. 1

No. of Pages : 20 No. of Claims : 7

(54) Title of the invention : AN IMPROVED BLOOD SMEAR DEVICE

(51) International classification :G01N 1/28, G01N 33/49
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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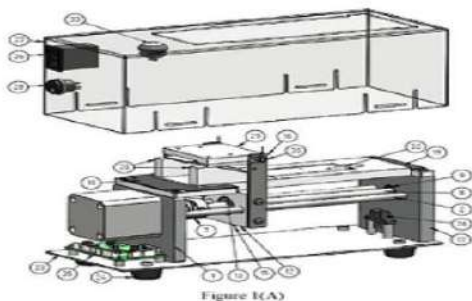
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(57) Abstract :

An improved blood smear device, comprising: a base; a carrying table carrying a microscope slide thereon and being supported on the base; a stepper motor mounted to the base by means of motor mounting plates; and a spreader assembly comprising a spreader adapter to retain a spreader, pivotally connected about a hinge lever to a hinge support and a plurality of torsion springs adapted to rotate the hinge lever; wherein said spreader holder rests on a pair of guiding walls placed at an end of said carrying table opposite to the microscope slide; wherein the spreader assembly is driven by the stepper motor operably connected with the spreader assembly by means of a guide block resting on a pair of guiding rods and a central lead screw being connected to the shaft of the stepper motor at one end via a flexible coupler, such that when the motor starts, the lead screw rotates inside a lead screw nut fixed to the base of the guide block, thereby moving the guide block in the horizontal direction resulting in the to and fro movement of the spreader assembly; and wherein the blood smear preparation device is configured for rotating or pivoting the spreader around or about the hinge lever to cause the edge to contact the microscope slide for blood smear preparation and cleaning operation afterwards. Figure 1(A)



No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : ALL OPTICAL MODULATION IN INDIUM TIN OXIDE BASED VERTICALLY COUPLED RING RESONATOR EMPLOYING EPSILON NEAR ZERO STATE

(51) International classification :H01S 050600, H01S 051000, H01S 053000, H03K 030300, H04B 014000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

We propose an approach for all-optical modulation in an ITO-based vertically coupled ring resonator that makes use of the material's improved nonlinear response throughout the ENZ state in near-infrared wavelengths. In order to avoid scattering losses and improve the interaction between light and matter, the proposed work includes an ITO-based vertically connected ring resonator. The suggested structure enables effective high-intensity pump wavelength coupling into the ITO-based micro-ring resonator, and as a result, this optical pumping in ITO will result in electron heating and an increase in nonlinear optical parameters. This impact, therefore, causes a change in the ITO's overall refractive index in unity order, which changes the complex effective index of the optical beam propagating at 1550 nm. A high extinction ratio of 18 dB for a 30 μm long device is reported as a result of optical pumping of an ITO-based vertically coupled ring resonator for the purpose of providing efficient all-optical modulation. The proposed mechanism of optical modulation with a high extinction ratio and lower device footprint outperforms conventional state-of-art modulators in terms of extinction and compactness. The proposed technique has great promise for the development of high-speed data communication systems in the future. FIGURE 1(a)

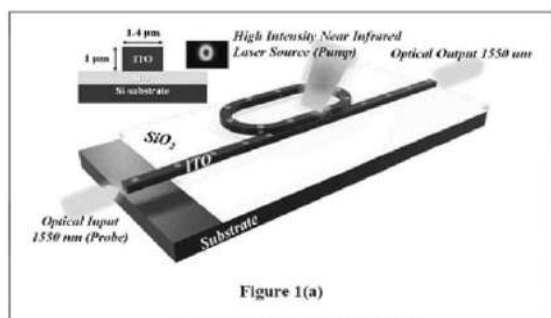


Figure 1(a)

No. of Pages : 37 No. of Claims : 11

(54) Title of the invention : AN ENERGY HARVESTING DEVICE FOR TWO WHEELER SUSPENSION SYSTEM

(51) International classification :B60G 17/0165, B60L 1/00, F03G 7/08, F16F 15/00, H02K 35/00, H02K 35/02, H02N 2/00, H10N 30/00

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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4)BHONDE, Vedanti
5)PATEL, Kartik Patel
6)KHADGI, Advait
7)PAWAR, Hrshikesh
8)MAHANT, Shantanu
9)CHAUHAN, Ajaysingh
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(57) Abstract :

The present invention relates to an energy harvesting device for two wheeler suspension system. The proposed device consisting of a magnet housing (3) connected to the piston (1) of a suspension, a coil housing (7) is connected to a suspension cylinder (2) said magnet housing (3) contains a series of magnets (5) set apart by a thin separator (6) blocks. Herein the coil housing (4) contains copper coils (7) wound in the hollow cylinder, as the vehicle moves the suspension travels with the uneven bumps on the road surface, the magnet housing (3) travels in the coil housing (4).

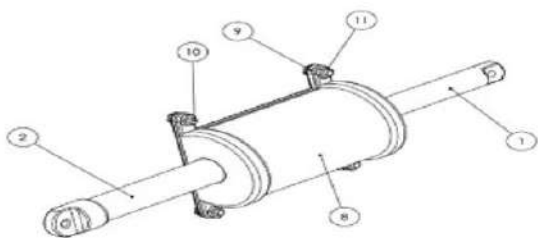


Figure 1

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : A SWIRLING COBWEB REMOVER MACHINE

(51) International classification :A01D 347100, B32B 050200, D03D 150000, G01V 012800, G03F 074200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention relates to a cobweb remover machine that can be used by a household for removing the spider cobweb. In This invention a small handy machine is design that has a simple rodwith button (120) and plastic rod (110) at one end to remove the cobweb (111). The plastic rod (110) rotates and removes the cobweb easily which do not stick to the wall and also doesn't fall down the area where it is cleaned/removed. This invention is described in detail with the help of Figure below illustrates the Diagrammatic Representation of the cobweb remover machine.

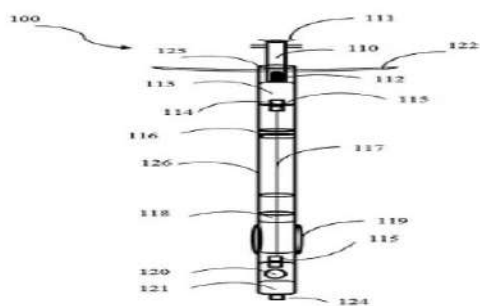


Figure 1

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : A SYSTEM FOR DETECTION OF MOISTURE CONTENT IN SANITARY PAD

(51) International classification :A61F 131500, A61F 134720, A61F 138400, G01N 219560, G01N 220400

(86) International Application No.:NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA

(62) Divisional to Application :NA
Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a system for detection of moisture content in sanitary pad. Urinary incontinence is a problem that diminishes the quality of life not only of the person with the problem but also of a caregiver. In the present invention, When the baby/patient wears the pad, a sensor will be attached to it (which will be totally safe and will not hurt the baby/patient). Firstly, when the pad is filled, the sensor will detect the moisture/wetness). If the value of moisture is reached above the threshold that we set, the sensor will send a signal to the processor. After receiving the signal from the sensor, the processor will complete the connection and will start the buzzer. When the buzzer is activated the nurse/caretaker will get the message to change the pad.

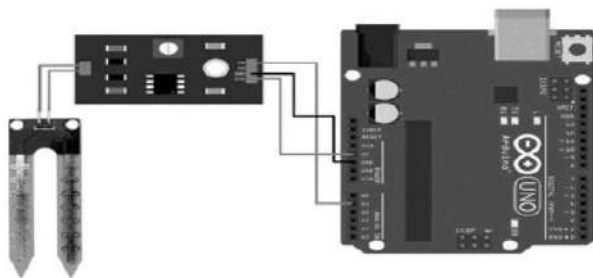


Figure 1

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : A SYSTEM FOR TEA MAKING WITH TEA BAGS

(51) International classification :A23F 033400, A47G 192200, A47J 310600, A47J 314400, B65D 858080

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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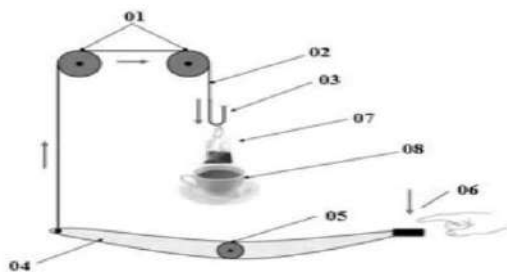
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(57) Abstract :

The present invention relates to a system for tea making with tea bags. A rectangular groove is cut into the body [10] to accommodate the lever [04] mechanism with pivot joint [05]. One end of the lever is attached to pressing strip/ pad [06] and the other end is attached to the string/ rope. The other end of the rope [02] goes over the two pulleys [01] and attached to a hook [03]. The tea bag [07] may be attached to other end of the hook. The cup [08] may be placed exactly below the tea bag. Sugar/milk/tea pouches storage box [09] is also provided to keep in excess.

**Figure 1**

No. of Pages : 7 No. of Claims : 4

(54) Title of the invention : A WATER COOLER PUMP PROTECTION SYSTEM

(51) International classification :B67D 030000, F04C 282800, F04D 150000, F04D 297000, H02M 013200

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention related to a water cooler pump protection system. The water air cooler operates on the same theory and uses water as a medium to provide faster cooling. Pumps are used to allow water to flow so that a tank can be filled with water. In coolers, pumps are used excessively due to the need for cooling in tropical areas. Herein the present invention develops a mechanism to safeguard air coolers from mishaps like water shortages in hot climates and electric shocks. To do this, electronic circuitry that automatically turns ON and OFF the water pump can be incorporated into the air cooler. The present invention consisting of a timing control circuitry [102] in connection with the pump [103] which controls its ON/OFF operation. The timer is set for a particular given time using or setting the timer with the help of the required value of resistor.

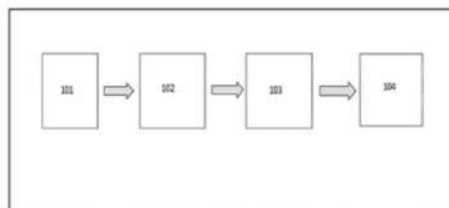


Figure 1

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : A COMPOSITION FOR CASTING WALL PANEL WITH QUARTZ POWDER AS CEMENTATIOUS POZZOLANIC MATERIAL

(51) International classification :B22C 030000, C01B 331800, C04B 115400, C04B 280200, C04B 281800
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention discloses a composition for casting wall panel with quartz powder as cementatious pozzolanic material.Quartz powder is industrial waste and quartz powder contains more than 90% of the silica content. Feasibility of the quartz powder as pozzolanic material is investigated through experimentations. Based on this investigation partial replacement of the cement with quartz powder is done. Then again partial replacement of cement with GGBFS keeping dose of quartz powder constant as 20% is evaluated. Finally on the basis of the various trials following cementatious material composition is proposed for casting of the wall panelCementatious Material (CM) = 20% Quartz Powder:20%GGBFS:60% OPC.

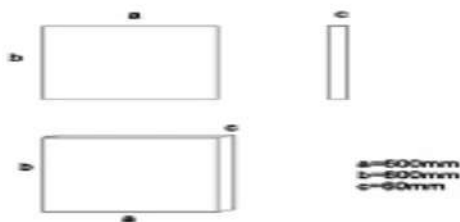


Figure 1

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : AN ELEVATOR STEEL WIRE ROPES DEEP CLEANING DEVICE

(51) International classification :A61Q 191000, B66B 050000, B66B 071200, D07B 010600, G03G 210000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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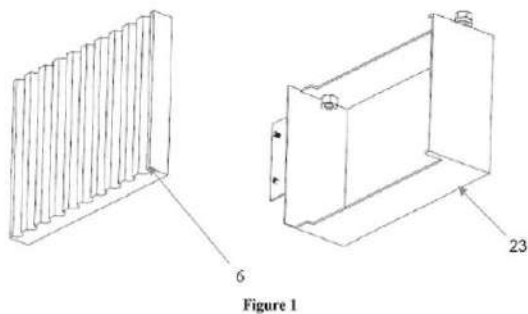
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(57) Abstract :

ABSTRACT TITLE OF THE INVENTION: AN ELEVATOR STEEL WIRE ROPES DEEP CLEANING DEVICE There was a long standing need to provide a solution that can assist in cleaning the elevator steel wire ropes. Present invention mainly provides an elevator steel wire ropes deep cleaning device comprising a friction pad(s) (6) essentially made up of woolen felt material that surrounds and contact with said steel wire ropes. Said friction pad(s) (6) are mounted on a bracket(s) (7). Said bracket(s) (7) mounted with the friction pad(s) (6) enclosed in a box (1). The current invention provides an elevator steel wire ropes deep cleaning device which is easy to use, efficient and economic. Refer Figure 2:



No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : PHOTOACOUSTIC-ULTRASOUND IMAGING PROBE

(51) International classification :A61B 050000, A61B 080000, A61B 080800, A61B 081200, A61K 510400
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present disclosure provides a photoacoustic-ultrasound imaging probe, include a set of transducers that are configured to emit a first set of ultrasonic signals directed towards a surface of a tissue, and detect a second set of ultrasonic signals reflected from the tissue and one or more light emitting units configured to emit light on the tissue to cause said tissue to produce a third set of ultrasonic signals. The imaging probe also includes a control unit configured to controllably cause the set of transducers to emit the first set of ultrasonic signals directed at the tissue and the one or more light emitting units to emit light on the surface of the tissue. The control unit reconstructs one or more photoacoustic-ultrasound images of the tissue based on the second set of ultrasonic signals reflected by and the third set of ultrasonic signals produced from the tissue.

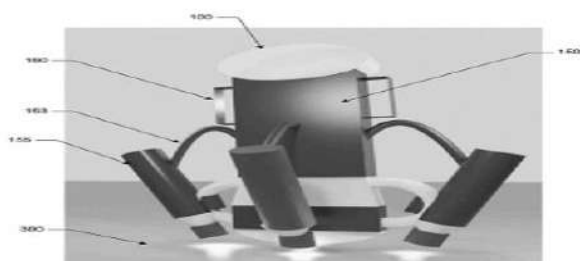


FIG. 1

No. of Pages : 31 No. of Claims : 13

(54) Title of the invention : A PROCESS FOR PREPARATION OF CAPECITABINE LOADED ERYTHROCYTES

(51) International classification :A61K 095000, A61K 317068, A61K 351800, A61P 350000, B01J 351000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

Disclosed is a process for preparing stable preparation of capecitabine loaded erythrocytes comprising the steps: i) providing a suspension of red blood cells (erythrocytes) includes serum, buffy coats and haemoglobin; ii) adding hypotonic solution to the suspension as obtained in step (i) in order to swell the erythrocytes; iii) adding a solution of capecitabine and water miscible organosulfur compound of relative density of 1.087-1.092 to the erythrocytes as obtained in step (ii); iv) adding hypertonic solution to the product as obtained in step (iii) such that the isotonicity of the erythrocytes being equilibrium to the hypertonic solution; v) subjecting the product as obtained in step (iv) for incubation at 0°C for 5 min in order to reseal the erythrocytes.

No. of Pages : 19 No. of Claims : 14

(54) Title of the invention : SYSTEM AND METHOD FOR E-BLOOD CENTRE TO FACILITATE PATIENTS, ORGANISERS AND BLOOD CENTRES

(51) International classification :G06Q 10/08, G06Q 50/10, G06Q 90/00, G16H 10/60, G16H 40/20, G16H 40/40, G16H 40/60, G16Y 10/60

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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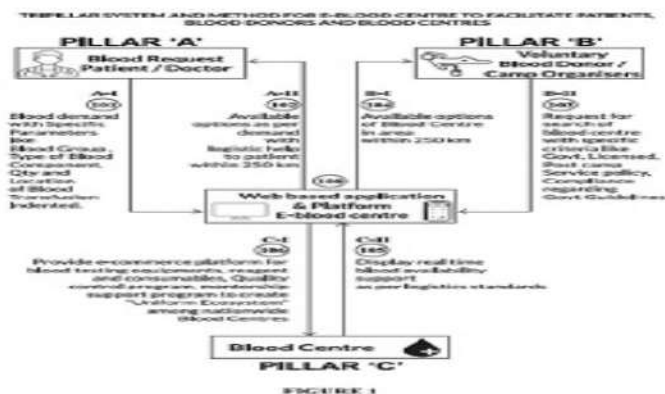
(72)Name of Inventor :

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Address of Applicant :1001, Oasis Sapphire, Khopat, Thane west, 400601. Thane -----

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR E-BLOOD CENTRE TO FACILITATE PATIENTS, ORGANISERS AND BLOOD CENTRES The present invention discloses a system and method for digitizing healthcare by providing a real-time mobile and web application. The system comprises a Pillar A, Pillar B, and Pillar C. Wherein each pillar A, B, and C possess two arms each I and II. More specifically, the invention is directed to a system and method for facilitate Quality blood supply and facilitate blood donation with assurance of post donation service. (to be published with Figure 1)



No. of Pages : 19 No. of Claims : 11

(54) Title of the invention : AN ONION STORAGE STRUCTURE

(51) International classification :A61F 131500, A61K 368962, F02F 070000, G06F 162200, H04N 053780

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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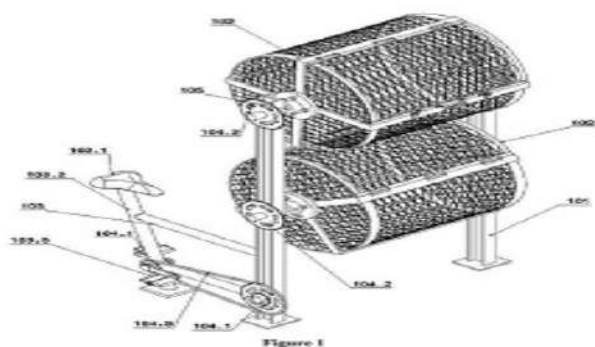
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(57) Abstract :

The present invention relates to an onion storage structure. The new type of onion storage structure helps to store onion for a long time with minimum damage. The life of onions depends on proper ventilation, proper temperature and humidity. This structure provides proper ventilation which will help to increase the life of onions. The onion storage structure consists of cylindrically meshed structure which works on the mechanical sprocket chain mechanism. This meshed structure stores onions and the pedal operated mechanism helps to rotate cylindrical structure. Because of rotation of cylindrically meshed structure onions get ventilated and stored for 6-7 months. There is no requirement shuffling separately, the man power required for the shuffling of onions will be reduced. The storage structure is completely manual no requirement of electricity. This new type of onion storage structure helps to improve the life of onion. This invention is described in detail with the help of Figure 1 of sheet 1 illustrates the perspective view of complete storage structure.



No. of Pages : 12 No. of Claims : 2

(54) Title of the invention : A ROASTED PEANUT SKIN PEELING MACHINE

(51) International classification :A23N 050000, A23N 070000, A23N 150800, A61Q 190000, B23B 051200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention is related to a roasted peanut skin peeling machine. According to the invention, the design of the roasted peanut skin peeling machine is mainly developed for household applications. It is an electromechanical device with smaller size and dimension. This machine can be used in both urban and rural areas as it is easy to handle and will make a change in the livelihood of homemakers. The motivation behind the research is to provide new techniques in the era of household works letting behind traditional ways of doing work. Due to this technique, we can eliminate the spit from mouth that occurs in the traditional way of removing peel of nuts using bamboo soop and we can maintain the hygiene. A 100W motor is used to operate this machine and a 20W electric fan to separate skin.

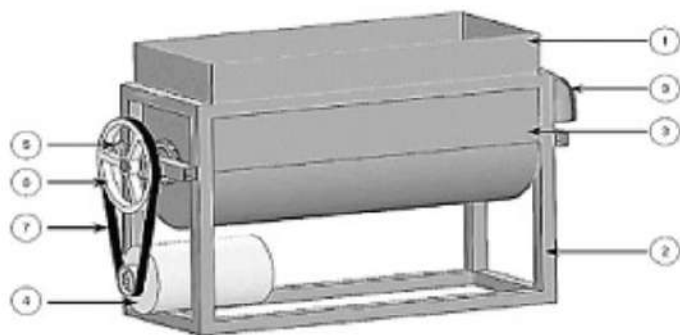


Figure 1

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321026691 A

(19) INDIA

(22) Date of filing of Application :10/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN IRON ORE SUPPLY CHAIN MONITORING SYSTEM AND A METHOD FOR THE SAME

(51) International classification :G01M 130230, G06K 071000, G06Q 100600, G06Q 100800, H02G 110000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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3)Darshika Ravindra Pongallu
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(57) Abstract :

The system comprises an iron ore extraction unit for generating a mine batch and requesting transaction approval to sell the mine batch upon sending the mine batch to a first registered user; a testing unit for examining the mine batch and generating a verified mine batch and storing the verified mine batch in a storage unit; an authorization processing unit for authorizing extraction unit for creating transactions and sending to the first registered user for approval thereby generating a batch QR code; a central processing device for generating a QR code tag for each transaction and allotting the unique QR code to each transportation vehicle; a plurality of QR scanners for scanning the QR code at checkpoints to track the transit information and approving the transportation vehicle upon scanning the QR code by QR scanner installed at the destination location once delivered to the destination. Figure 1.

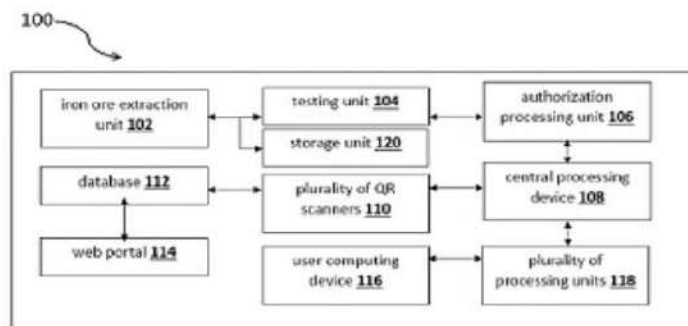


Figure 1

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321027502 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MULTI-COMPARTMENT CLOSET WITH ADJUSTABLE STUDY AND DRESSING TABLE (MCCSDT)

(51) International classification :A47B 610000, A47B 670000, A47B 670400, A47D 050000, C11D 170400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Storage space is a challenge for both hostel rooms and tiny houses, hence one needs to choose between space with the utilities. The beds and cupboard take up an immense amount of the room's floor space, which makes it challenging to fit other furniture like a study table, bookshelves, dressing table, etc. There are several multi-compartment study tables as well as dressers on the market, but none of them are available in a combined form and all of them have alterations that are quite similar. The MULTI-COMPARTMENT CLOSET WITH ADJUSTABLE STUDY AND DRESSING TABLE (MCCSDT), is designed to meet current demands. They needed a new modification to serve the needs of the users. This innovation, which is suitable for hostels and tiny houses, includes a closet, study table, and dressing table. For usage as a study table or drafting table, the MCCSDT's movable sliding door arrangement is available. The right side of the MCCSDT is provided with a foldable dressing mirror as well as a dressing stand for storing various products when dressing.

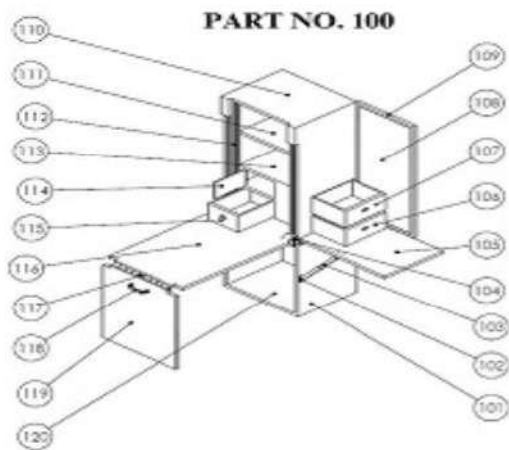


FIG. 01

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : A DIGITAL LAB ASSISTANT SYSTEM FOR AUTOMATIC RUBRIC BASED EVALUATION

(51) International classification :G06F 162700, G09B 070200, G10L 152200, H03L 070810, H04W 082000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention related to a digital lab assistant system for automatic rubric based evaluation. Herein the present invention works in a server-client model, wherein the server hosts the application and the database, and the application can be accessed through any browser client. It consists of two different roles namely; Students and Teachers each with different access and responsibilities. The student module is used to access the reference material, submit the lab work and complete the continuous evaluation MCQ test for the lab available. While the teachers' module can be used to evaluate the said work, access the students' performance, add lab assignments and MCQ tests, and generate reports on the basis of batch or class. This system is very effective and efficient and does not only save time but also saves a load of papers that are used up in the process, hence becoming an eco-friendly, cost and time-efficient alternative to the traditional approach.

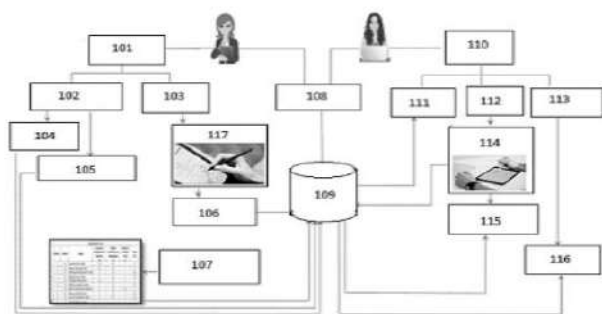


Figure 1

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : A COMPACT KICK SCOOTER

(51) International classification :B62K 030000, B62K 150000, E21B 210800, E21B 471070, F02N 030400
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention related to a compact kick scooter. Herein the present invention consists of a lower body (102) comprises of rear wheel (107) and a hollow cylinder to hold the rear wheel (107). The rear wheel (107) and the hollow cylinder are permanently attached to each other. The upper body (101) is separated from the lower body (102). The handle neck (103) is attached to the lower body (102) by means of a dowel pin (108). The handle neck (103) has provision to accommodate the push button lock system (109). The upper body (101) locks with the handle neck (103) with the help of push button lock (109). Stem (105) is pulled out from the upper body (101) and gets lock inside it. Handle Grip (104) opens up horizontal and gets lock to hold the compact kick scooter (100) while commute.

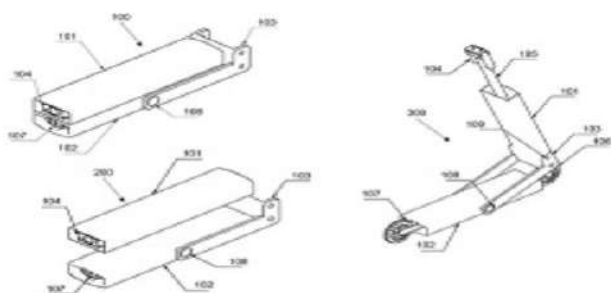


Figure 1

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/04/2023

(21) Application No.202321028067 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : SUBSTITUTED BENZOFURAN COMPOUNDS AS ANTIBACTERIAL AGENT

(51) International classification :A61K 31/343, A61K 31/381, A61P 31/10, C07D 307/86, C07D 407/06
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT SUBSTITUTED BENZOFURAN COMPOUNDS AS ANTIBACTERIAL AGENT The invention is relates to substituted benzofuran compounds of Formula (I) and pharmaceutical acceptable salts, wherein substitutes as described herein, and their use in medicine as an antibacterial agents. The invention is also related to pharmaceutical composition thereof.

No. of Pages : 29 No. of Claims : 8

(54) Title of the invention : SYSTEM AND METHOD OF DESIGNING ARTIFICIAL NEURAL NETWORK USING THE CAPUTO FRACTIONAL DERIVATIVE

(51) International classification :A61B 182000, G06N 030400, G06N 030630, G06N 030800, G08B 310000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention discloses a system and a method of designing artificial neural network (ANN) using a Fractional Derivative. More particularly, the present invention relates to the system and method designing artificial neural network using the Caputo Fractional Derivative. The system and method involve the application of Caputo fractional derivative as an activation function to ANN, simulating the neural network and comparing the results with normal log sigmoid activation function.



Figure 1

No. of Pages : 21 No. of Claims : 12

(54) Title of the invention : HYBRID DEEP LEARNING BASED SYSTEM FOR ASSESSING LIVER CANCER

(51) International classification :A61P 350000, G06N 030400, G06N 030800, G11C 290200, H04N 194800
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

Disclosed herein is a system for assessing liver cancer from stained liver histopathology images is depicted. The system comprises a microscopic imaging device (100) adapted to capture stained sample images (508); a predictive engine (200) having a primary microprocessor (202) and a secondary microprocessor (204) in communication with the imaging device (100); and a display (300) communicatively coupled to the predictive engine (200) to show prediction results. The primary microprocessor (202) is configured to: extract patch blocks (510) of a defined dimension from the stained sample images (508); feed the patch blocks (510) into a hybrid deep learning model (402) trained to determine a plurality of parameters associated with clinical information of cancerous tissue stored in a database (404); trigger a signal for the secondary microprocessor (204) to perform a set of convolution and activation operations using quantitative values of the patch blocks and the parameters, so as to interpret if the sample is healthy or affected by any stage of the liver cancer and compute a corresponding severity score; generate recommendations associated with medical procedures. Fig. 1

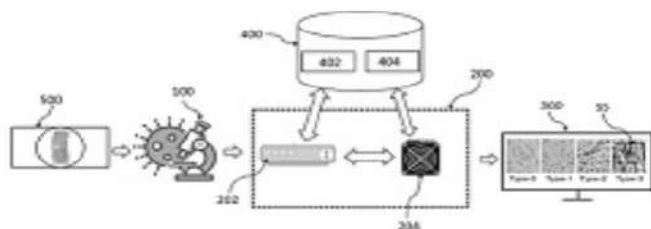


Fig. 1

No. of Pages : 24 No. of Claims : 5

(54) Title of the invention : GSM-BASED SUBSTATION MONITORING AND CONTROL SYSTEM DESIGN AND DEVELOPMENT USING ARTIFICIAL INTELLIGENCE

(51) International classification :C11B 090000, G05B 230200, G06F 083500, H02J 031600, H02J 130000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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4)Dr. Ashendra Kumar Saxena
5)Mr. Vineet Saxena
6)Dr. Sandeep Labu Sarkale
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(57) Abstract :

The proposed invention is a GSM-based substation monitoring and control system designed to improve the reliability, efficiency, and safety of substation operations. The system uses a network of sensors and artificial intelligence algorithms to monitor critical parameters such as voltage, current, temperature, and humidity in real-time. The system can detect patterns and anomalies in the sensor data to provide early warning of potential problems and trigger alarms to control substation equipment remotely in case of any abnormal conditions. The system is capable of learning from historical data to improve its predictive capabilities over time, and can help reduce maintenance costs by detecting potential problems early and preventing major equipment failures. The system can be installed quickly and easily without the need for extensive cabling or communication infrastructure. Overall, the proposed system offers a cost-effective solution for substation monitoring and control, leading to improved reliability, efficiency, and safety.

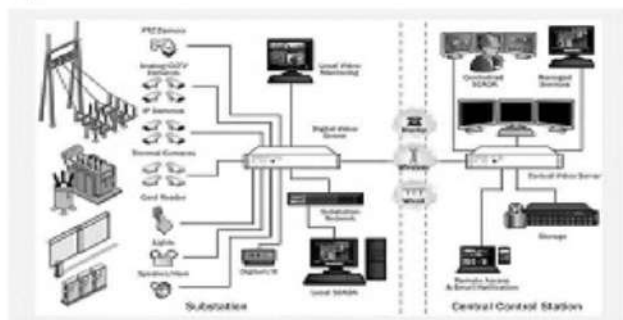


Figure 1: Functional process diagram

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : SUBSTITUTED THIAZOLE UREA DERIVATIVES AS ANTITUBERCULAR AGENTS

(51) International classification :A61P 091200, A61P 110000, A61P 310600, A61P 430000, C07D 170400

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Potent and effective medicaments for the treatment of tuberculosis are still needed. The present invention discloses compound of Formula I, Formula I or its stereoisomers wherein, ring A and B are same or different and independently selected from aryl, heteroaryl, heterocyclyl, heteroalkyl substituents; wherein ring A and B is substituted with 1 to 4 substituents independently selected from R1 and R2; wherein R1 and R2 represents same or different and independently selected from alkyl, cycloalkyl, alkoxy, halo, cyano, amino, nitro, heterocyclic, hydrogen; wherein R3 and R4 represents same or different and independently selected from alkyl and hydrogen. The process for preparing the compound of formula I is also disclosed. The composition of compound of formula I with pharmaceutically acceptable carrier is also provided. The compound of formula I and composition disclosed thereof has potential for the treatment of tuberculosis.

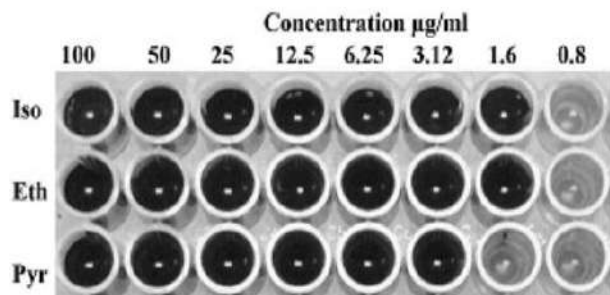


Figure I

No. of Pages : 34 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321028532 A

(19) INDIA

(22) Date of filing of Application :19/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANALYTICAL HPLC METHOD FOR THE ESTIMATION OF CYCLOBENZAPRINE HYDROCHLORIDE IN PURE FORM.

(51) International classification :A61B 051600, A61K 311350, G01N 300200, G01N 300600, G01S 130000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an analytical method for estimation of cyclobenzaprine hydrochloride. More specifically, the present invention relates to the development and validation of the HPLC method for estimation of cyclobenzaprine hydrochloride using central composite design. The method was validated for system suitability, linearity, precision, accuracy, robustness, limit of detection (LOD) and limit of quantitation (LOQ).

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(54) Title of the invention : AN ANALYTICAL STRATEGY FOR ENHANCING THE WORK ENVIRONMENT THROUGH THE USE OF APPLICATION PROGRAMMING INTERFACES AND HUMAN RESOURCE MANAGEMENT SYSTEMS

(51) International classification :A61K 090000, G06F 095000, G06F 095400, G06Q 100600, G06Q 101000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

AN ANALYTICAL STRATEGY FOR ENHANCING THE WORK ENVIRONMENT THROUGH THE USE OF APPLICATION PROGRAMMING INTERFACES AND HUMAN RESOURCE MANAGEMENT SYSTEMS Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed. Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society. A human resource management system (HRMS) is a variety of HR software that facilitates the management of various HR functions through the application of information technology. By automating formerly manual processes, a Human Resource Management System (HRMS) enables a company to be more productive and effective as a whole. Consequently, the HR department has more time to devote to other responsibilities. With more time and resources, human resource managers can concentrate on the organization's most crucial long-term objectives. Human resource management systems (HRMS) frequently incorporate all components of human resource information systems (HRIS), including those pertinent to human capital management. Monitoring time and attendance and processing payroll are two of the most popular HRMS features.

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : IOT BASED SMART AND CONTROLLABLE WHEELCHAIR FALL DETECTION FOR PHYSICALLY CHALLENGED PEOPLE

(51) International classification :A61B 050000, A61B 051100, A61G 051000, A61G 051200, G08B 210400

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

IoT Based Smart and Controllable Wheelchair fall detection for Physically Challenged People Abstract: It is essential to monitor the elderly in order to ensure their health and safety as they age. They have a high risk of stumbling because they are frequently frail and have weak joints. If you desire to provide immediate assistance to an elderly person, you must first determine whether or not they have fallen. Wheelchair-dependent individuals must also have their fall alarm systems examined routinely. Install a technological device capable of detecting accidents. The device can monitor the user's motions because it contains an accelerometer and a gyro sensor. To detect, the monitor can be attached to a wheelchair or a person's hand. The sensor is connected to a computer and transmits acceleration data continuously. Now, the system will monitor the individual for signs of falls or other abnormal changes in mobility. A fall is a sudden system change that is followed by excruciating movement. If the user did not fall and the alert was inaccurate, they can now dismiss it by tapping the snooze icon within 5 seconds. If the user does not press the snooze button and falls unconscious, the system will send a wireless alert. As a result, the individual's family and acquaintances will be informed of the issue as soon as possible.

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : SYSTEM AND METHOD OF WAVELET BASED ENSEMBLE MODELS FOR EARLY MORTALITY PREDICTION USING IMBALANCE ICU BIG DATA

(51) International classification :G06N 202000, G16H 502000, H02H 010000, H04L 270000, H04N 196400
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention provides a method and system for predicting the mortality of patients admitted to the Intensive Care Unit (ICU) using an ensemble learning classifier. The method includes obtaining a high-dimensional, imbalanced patient database with missing values, collected during the first 48 hours, 24 hours, and 48 hours of a patient's admission to the ICU. Missing values are filled using k-NN or mean imputation, and synthetic minority oversampling techniques (SMOTE) are applied for resampling the patient data. Discrete wavelet transform (DWT) is used to extract transform domain features, and twelve different machine learning classifiers are trained using the extracted wavelet coefficients with 5-fold cross validation over 10 independent experiments. The top three performing classifiers are selected, and ensemble learning models are developed using these classifiers. The ensemble learning models are evaluated using ICU patient datasets such as Physionet challenge 2012, WiDS datathon 2020, and MIMIC-III, and mortality predictions are made based on the evaluation results. The method achieves high accuracy and reliability in predicting ICU patient mortality, offering potential improvements in patient care and resource allocation.

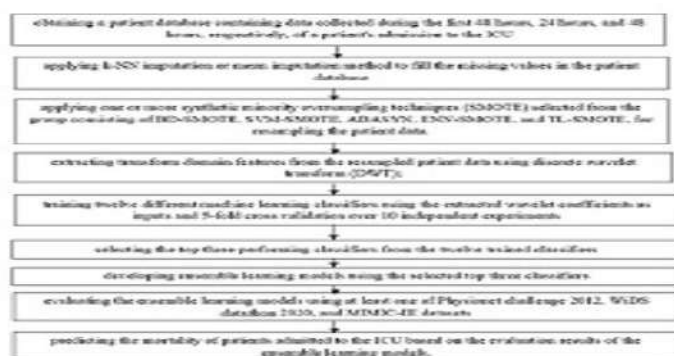


FIGURE 1

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : TROLLEY MOUNTED MOBILE FALL PROTECTION SAFETY EQUIPMENT

(51) International classification :A41D 130000, A62B 350000, A62B 350400, B01D 210000, E04G 213200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT Trolley mounted mobile fall protection safety equipment The present invention provides a trolley mounted fall protection equipment which provides safety to the workman working on large surfaces on the top of tall objects like railway bogies, large chemical vessels, fermentors etc. from falling down by toppling. The equipment comprises of retractable and collapsible masts (4) holding foldable and flexible horizontal life line rail (7) at the top end of the masts (4) for the workman to attach to his safety harness (8) providing him freedom of movement on the top surface of the tall object. The horizontal life line rail (7) is made of flexibly connected members which assume the geometric shape of the surface of the tall object so that the workman can work on any part of the surface of the tall object. Fig.1

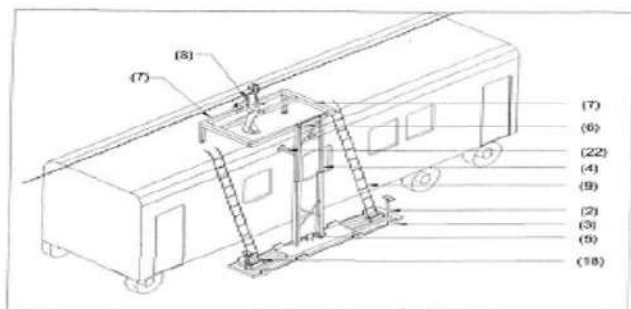


FIG. 1

No. of Pages : 33 No. of Claims : 7

(54) Title of the invention : REAL-TIME NON-TOUCH FUE

(51) International classification :A61B 050100, A61F 130200, G06F 030100, H04N 053780, H04W 163200

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT [500] Our Invention REAL-TIME NON-TOUCH FUE is a method aims to reduce the time between harvesting of graft and implantation of the graft. This method overcomes the drawback of preservation of grafts as grafts survival decreases with increase in a outer body time. The Real-Time Non-touch FUE method does save a great deal of cost. (Costly preservative medium). Since the extracted follicles are directly implanted in the bald area, this method preserve the quality of grafts as there is no time delay between the two steps i.e. extraction (harvesting) and implantation. No graft preservation is required and these are directly implanted maintain its cellular integrity, prevents anaerobic metabolism in grafts. It provides comparatively quicker and long lasting results. Pre-planning gives an idea about how much grafts are to be extracted rather than taking leap of faith like regular FUE. Continuous non-contact FUE is a technique for relocating hair follicles without putting them in a protecting arrangement. Under this strategy, the hair follicles are removed and embedded at the same time without keeping them in a protecting arrangement, bringing about an ordinary FUE hair relocate.



Fig 1: REAL-TIME NON-TOUCH FUE

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : IMPROVING EFFICIENCY OF BLOCKCHAIN MINER POOLS VIA INCREMENTAL & CONTINUOUS Q-LEARNING FRAMEWORK.

(51) International classification :G06F 162700, G06N 200000, G06Q 200600, H03F 010200, H04L 093200
 (86) International Application No.:NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT [500] Our Invention Improving efficiency of blockchain miner pools via Incremental & Continuous Q-Learning Framework is a Blockchain mining pools assist in reducing computational load on individual miner nodes via distributing mining tasks. This distribution must be done in a non-redundant manner, so that each miner is able to calculate block hashes with optimum efficiency. To perform this task, a wide variety of mining optimization methods are proposed by researchers, and most of them distribute mining tasks via statistical request processing models. These models segregate mining requests into non-redundant sets, each of which are processed by individual miners. But this division of requests follows a static procedure, and does not consider miner specific parameters for set creation. Due to which, overall efficiency of the underlying model is limited, which reduces its mining performance under realtime scenarios. To overcome this issue, an Incremental & Continuous Q-Learning Framework for generation of miner-specific task groups is proposed in this text. The model initially uses a Genetic Algorithm (GA) method to improve individual miner performance, and then applies Q-Learning to individual mining requests. The GA model assists in maintaining better speed-to-power (S2P) ratio by optimization of miner resources that are utilized during computations. While, the Q-Learning Model is able to continuously identify miner's performance, and create performance-based mining pools at a per-miner level. Due to application of Q-Learning, the model is able to assign capability specific mining tasks to individual miner nodes. Because of this capability driven approach, the model is able to maximize efficiency of mining, while maintaining its QoS performance. The model was tested on different consensus methods including Practical Byzantine Fault Tolerance Algorithm (PBFT), Proof-of-Work (POW), Proof-of-Stake (PoS), & Delegated PoS (DPoS), and its performance was evaluated in terms of mining delay, miner efficiency, number of redundant calculations per miner, and energy efficiency for mining nodes. It was observed that the proposed GA based Q-Learning Model was able to reduce mining delay by 4.9%, improve miner's efficiency by 7.4%, reduce number of redundant computations by 3.5%, and reduce energy required for mining by 7.1% when compared with various state-of-the-art mining optimization techniques. Similar performance improvement was observed when the model was applied on different blockchain deployments, thus indicating better scalability and deployment capability for multiple application scenarios.

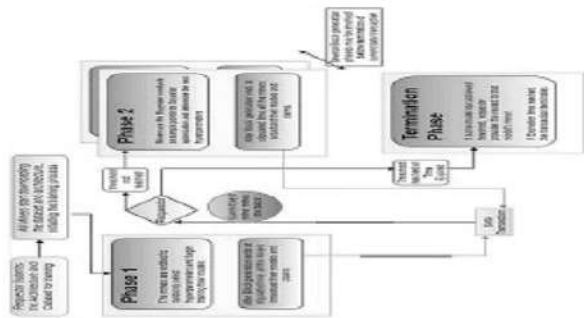


Fig. 3: A typical incremental and continuous mining optimization model

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : SMART DUAL FUEL ENGINE TECHNOLOGY USING MACHINE LEARNING

(51) International classification :F02D 190600, F02D 191000, G06N 030400, G06N 030800, G06N 200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT Our Invention Smart Dual Fuel Engine Technology using Machine Learning is a Fizzle location in a gas powered motor is a significant action. Any undetected failure to fire can prompt loss of fuel and power in the auto. As the fuel cost is more, one can't stand to squander cash on account of the failure to discharge. Regardless of whether one is prepared to spend more cash on fuel, the force of the motor descends; accordingly, the vehicle execution falls radically in view of the failure to fire in IC motors. Thus, specialists gave a ton of consideration to identify the fizzle in IC motors and redress it. Disadvantages of regular analytic procedures incorporate the necessity of elevated degree of human knowledge and expert ability in the field, which made the analysts search for shrewd and programmed symptomatic apparatuses. There are numerous procedures recommended by scientists to distinguish the discharge failure in IC motors. This paper proposes the utilization of move learning innovation to recognize the failure to fire in the IC motor. To start with, the vibration signals were gathered from the motor head and plots are made which will function as contribution to the profound learning calculations. The profound gaining calculations have the ability to gain from the plots of vibration flags and order the condition of the discharge failure in the IC motors. In the current work, the pretrained organizations like AlexNet, VGG-16, Google Net, and ResNet-50 are utilized to recognize the discharge failure condition of the motor. In the pretrained networks, the impact of hyperparameters like back size, solver, learning rate, and train-test split proportion was considered and the best performing network was recommended for fizzle location.

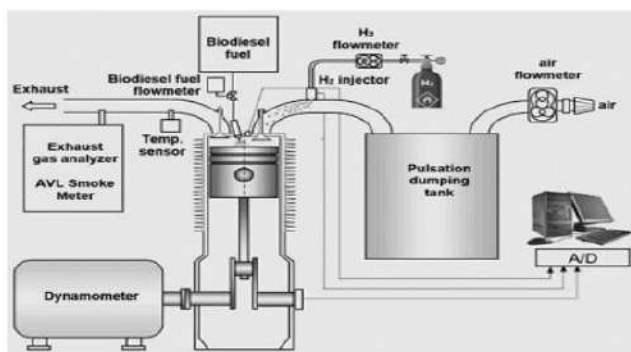


Fig.1: Smart Dual Fuel Engine Technology using Machine Learning flowchart.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : A MULTI-PERFORATED CYLINDRICAL SPOOL FOR A TWO-FOR-ONE (TFO) MACHINE OR A TWISTING MACHINE

(51) International classification :A23F 031200, C04B 356280, C04B 380000, D01H 011000, D01H 078600
 (86) International Application No.:NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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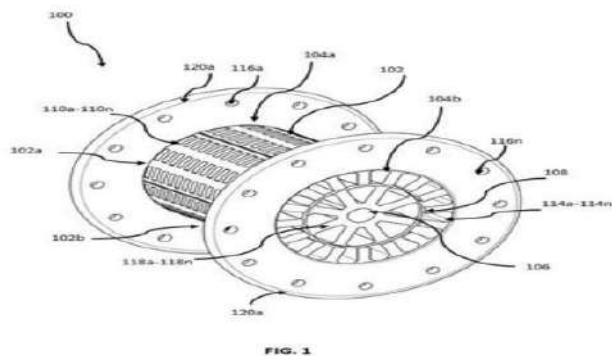
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(57) Abstract :

A multi-perforated cylindrical spool (100) for a two-for-one (TFO) machine or a twisting machine is disclosed. The multi-perforated cylindrical spool (100) includes an outer barrel (102) having a plurality of holes (110a-110n) on an upper surface to facilitate hot steam air towards the yarn. A plurality of flanges (104a, 104b) including a first flange (104a) and a second flange (104b) are attached on the opposite ends (102a, 102b) of the outer barrel (102). An arbor (106) is provided within the center of the outer barrel (102). A middle cylindrical barrel (108) is provided between the arbor (106) and the outer barrel (102) to facilitate hot steam air towards the yarn from the plurality of holes (110a-110n) of the outer surface of the outer barrel (102). Further, the outer surface of the outer barrel (102) comprises a plurality of linear cutting slots (112a-112m) for cutting the yarn.



No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : ORALLY ADMINISTERED MYRICETIN LOADED POLYMERIC CHITOSAN NANOPARTICLES FOR THE MANAGEMENT OF TYPE 2 DIABETES

<p>(51) International classification :A61K 090000, A61K 095100, A61K 313520, A61P 031000, A61P 210600</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Indian Institute of Technology Bombay Address of Applicant :Powai, Mumbai 400076, Maharashtra India Mumbai City -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUMAR, Ashutosh Address of Applicant :Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076, Maharashtra, India Mumbai City -----</p> <p>2)UPADHYAY, Mansi Address of Applicant :Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076, Maharashtra India Mumbai City -----</p>
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(57) Abstract :

ABSTRACT ORALLY ADMINISTERED MYRICETIN LOADED POLYMERIC CHITOSAN NANOPARTICLES FOR THE MANAGEMENT OF TYPE 2 DIABETES The present invention relates to the preparation of Myricetin loaded oral polymeric chitosan nanoparticles for the management of diabetes. The prepared oral nanoparticles proved to be effective and promising in reducing the blood glucose concentration and surprisingly, reduced the uncontrolled weight observed in the diabetic rats. The prepared nanoparticles also helped in improving the disturbed functional biochemical parameters.

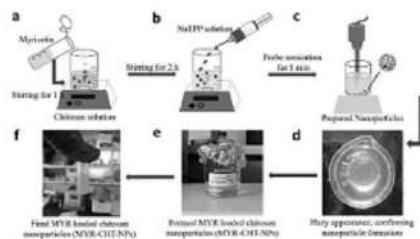


Figure 1

No. of Pages : 44 No. of Claims : 17

(54) Title of the invention : A CYLINDRICAL VESSEL WITH CONICAL BOTTOM TYPE VERTICAL CONTINUOUS AGRO-COMMODITY DRYER

(51) International classification :B22D 111400, C25D 170600, F03D 030600, F16B 350600, H01J 297600
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
 Filing Date :NA

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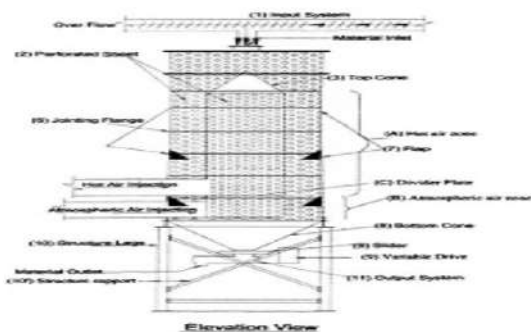
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(57) Abstract :

The invention relates to A CYLINDRICAL VESSEL WITH CONICAL BOTTOM TYPE VERTICAL CONTINUOUS SEED DRYER useful for industries having a continuous and uninterrupted supply for even drying of multiple free flow agro commodities like seeds, dal, pulses, maize, etc. in a simple, efficient and fast manner avoiding all the technical conundrums. The special cylindrical shape with conical bottom and design of the apparatus allows drying of the seed with a very low space requirement. The process is continuous and uninterrupted at a comparatively low investment cost compared to the other online dryers, for small segments (or small scale industries) of the industry and industries having limited period drying requirement in the season. This invention suggests certain improvements over the past installations for general seed drying to eliminate manual handling and to obtain uniform drying. As the process is continuous there is no requirement of intermittent storage areas which as a result helps in reducing costs. Improvements have been done in the apparatus by provision of heating and cooling zone for better results and also with the use of flaps for redistribution of seeds (positionally) in the dryer itself. The air quantity supply derivations, heat requirements and retention time are derived for the multiple free flow agro commodities like seeds, dal, pulses, maize, etc. considering its typical nature for the desired output for industrial application.



No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321028787 A

(19) INDIA

(22) Date of filing of Application :20/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AROMATIC BEVERAGE

(51) International classification :A23L 023800, A23L 025200, A23L 026000, A47G 192200, B67D 010700
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
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(57) Abstract :

The present invention relates to an aromatic soda comprising natural aromatic compounds that mask the smell of alcohol when mixed with alcoholic drinks. The soda contains two natural flavors, cinnamon and aniseed, which dominate and remove the smell of alcohol when mixed with alcoholic drinks. The aromatic soda not only helps consumers avoid alcohol breath but also leaves them feeling fresh even after consuming alcohol.

No. of Pages : 3 No. of Claims : 3

(54) Title of the invention : FORMULATION OF POLYHERBAL LOZENGES FOR MOUTH ULCERS AND METHOD OF PREPARATION THEREOF

(51) International classification :A61K 092000, A61K 361850, A61K 368100, A61P 010400, A61P 253400
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to :NA
 Application Number :NA
 Filing Date :NA
 (62) Divisional to Application :NA
 Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention deals with the formulation of polyherbal based Lozenges (a solid oral drug delivery system). The formulated polyherbal lozenges contains active phytoconstituents that provides analgesic, anti-inflammatory, soothing and cooling, ulcer healing and antibacterial effects to the mouth ulcer. The formulation has low calorie sweetener and Galen IQ 990 as base material which produces non sticky solid lozenges with improved shelf life and extended release of active phytoconstituents in the oral cavity.

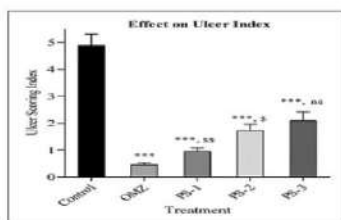


Figure 1. Effect of polyherbal solution on ulcer index of pylorus ligated rats. Data are expressed as Mean ± SEM (n=6). Data were analysed using one-way ANOVA followed by Tukey's multiple comparisons test. ***P<0.001 as compared to control group. \$P<0.01 and nsP<0.05 as compared to omeprazole-treated group.

No. of Pages : 26 No. of Claims : 9

(54) Title of the invention : SYSTEM TO REDUCE PILOT CONTAMINATION IN A MASSIVE MULTIPLE INPUT MULTIPLE OUTPUT (MIMO) SYSTEM

(51) International classification	:H04B 070400, H04B 070413, H04B 070452, H04B 070456, H04B 070600
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

ABSTRACT SYSTEM TO REDUCE PILOT CONTAMINATION IN A MASSIVE MULTIPLE INPUT MULTIPLE OUTPUT (MIMO) SYSTEM The present disclosure relates to the field of multiple input multiple output (MIMO) system and more particularly relates to a system to reduce pilot contamination in a massive multiple input multiple output system. The system comprising of, pilot rescheduling module, intelligent swarm module, formicidae physarum based optimization module, emmet territory optimization module, ant colony module, slime mould module, and a microcomputing unit. The pilot rescheduling module reduces pilot contamination in Massive MIMO systems. The formicidae physarum based optimization module can address the scheduling difficulties in massive MIMO system and the microcomputing unit, operatively connected to pilot rescheduling module, configured to, assign a pilot sequence from pilot rescheduling module with each sequence being represented by a unique pilot index and receive, extract, compare pilot rescheduling module and determine performance drop and generate a second set of signals corresponding to the performance drop of the pilot sequence from pilot rescheduling module. Figure 1 shall be reference figure.

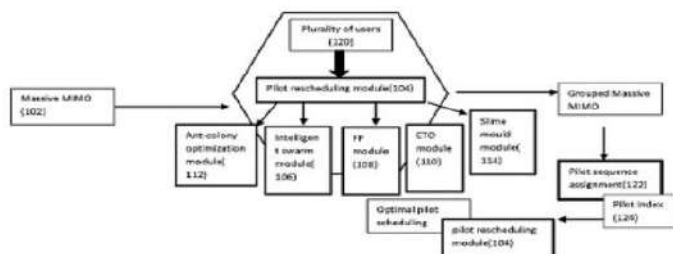


FIG. 1

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : METHOD FOR ACHIEVING A UNIFORM FILM TYPE DEPOSITION ON CARBON FIBER FABRIC

(51) International classification :G02B 232400, G06F 030450, H01J 013040, H01L 273200, H01L 296600

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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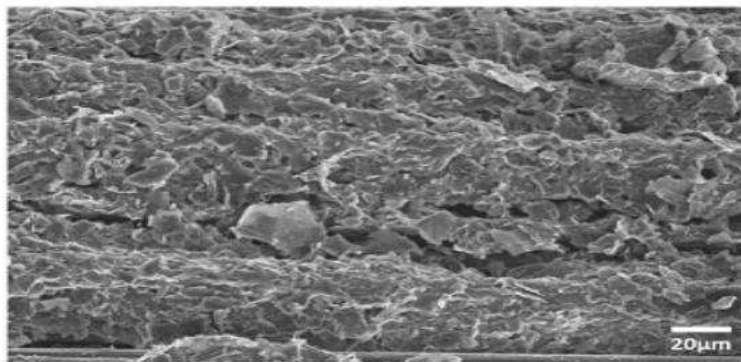
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(57) Abstract :

ABSTRACT Method for achieving a uniform film type deposition on carbon fiber fabric Method for achieving a uniform film type deposition on carbon fiber fabric is disclosed herein. The present method describes carbon fiber fabrics having uniform film type deposition for fabricating polymer composites having improved mechanical properties. The method, according to embodiments herein, provides a faster and uniform deposition of functionalized graphene platelets on carbon fiber fabric. The method also improves interfacial strength of carbon fiber fabrics thereby enhancing mechanical properties of the carbon fiber reinforced polymer composites. FIG. 1.

**FIG. 1**

No. of Pages : 26 No. of Claims : 21

(54) Title of the invention : METHOD FOR ACHIEVING UNIFORM PARTICULATE TYPE DEPOSITION ON CARBON FIBER FABRIC

<p>(51) International classification :B01J 237800, C04B 358300, C23C 143400, F01D 250000, H01J 013040</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Indian Institute of Technology Bombay Address of Applicant :Indian Institute of Technology Bombay - Powai ,Mumbai Maharashtra India 400 076 Mumbai ----- --</p> <p>----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Praveen Kumar Jatothu Address of Applicant :Centre for Research in Nanotechnology and Science(CRNTS), , Indian Institute of Technology Bombay - Powai,Mumbai Maharashtra India 400076 Mumbai ----- ----</p> <p>----- 2)Aparna Singh Address of Applicant :Department of Metallurgical Engineering & Materials Science, , Indian Indian Institute of Technology Guwahati - Powai,Mumbai Maharashtra India 400076 Mumbai ---</p> <p>-----</p>
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(57) Abstract :

ABSTRACT Method for achieving uniform particulate type deposition on carbon fiber fabric Method for achieving a uniform particulate type deposition on carbon fiber fabric is disclosed herein. The present method describes carbon fiber fabrics having uniform particulate type deposition for fabricating vacuum assisted resin transfer molding laminates having improved mechanical properties. The method, according to embodiments herein, provides a faster uniform deposition of functionalized graphene platelets on carbon fiber fabric. The inventors of the present invention have observed that uniform particulate type deposition on carbon fiber fabrics facilitates efficient impregnation of resins during composite manufacturing as well as increases interphase thickness of fibers; thereby improving mechanical properties of the composites. FIG. 1.

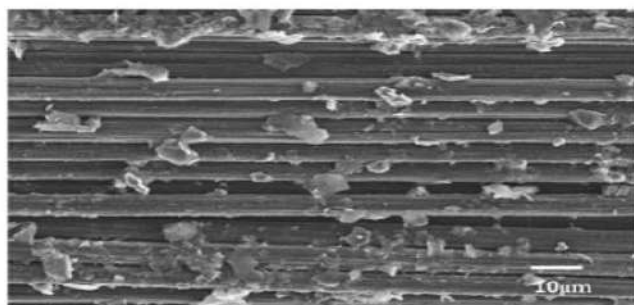


FIG. 1

No. of Pages : 6 No. of Claims : 22

(54) Title of the invention : FAULT DIAGNOSIS OF A SINGLE BALL BEARING SYSTEM BASED ON VIBRATION ANALYSIS USING NEURAL NETWORK

(51) International classification :E21B 440000, G01M 130280, G01M 130450, G06N 030400, G06N 030800

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

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(57) Abstract :

FAULT DIAGNOSIS OF A SINGLE BALL BEARING SYSTEM BASED ON VIBRATION ANALYSIS USING NEURAL NETWORK Bearing and gear are the main and most essential components of spinning machinery used in manufacturing. Typical uses include helicopters, motorcycles, wind turbines and steel mills. In the event of faults arising in either bearing or belt, severe effects will occur to these devices under operating conditions. Therefore, the bearing and gear fault detection is critical to avoid malfunctioning of the mechanical system that might inflict disruption or stop the whole operation. Until recently, the bearing and gear fault analysis has been intensively researched, and several studies have been undertaken. The method needs to be streamlined to reduce the burden of human interference in data analysis in system fault diagnosis. This thesis' main objective is to design and create an application that is an integrated smart device for a more accurate a bearing and gear failure diagnosis. Diagnosis of the fault uses the vibration signal at the early stage of the occurrence of fault. Signals of vibration for gear failure diagnosis obtained for various gear conditions such as normal, frosting, pitting and tooth crack condition and for bearing failure diagnosis were gathered under constant motor speed and constant load for normal, internal race fault, outer track, outer race fault and ball fault conditions.

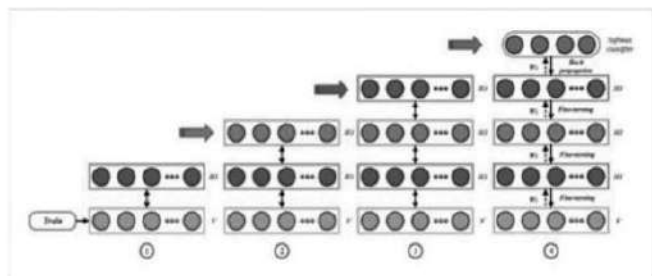


FIG.1.

No. of Pages : 25 No. of Claims : 1

(54) Title of the invention : USE OF TECHNOLOGY FOR THE INTRODUCTION OF BALANCE FAMILY CONCEPT FOR POPULATION CONTROL AND SUSTAINABLE DEVELOPMENT

(51) International classification :C04B 280400, C12N 158500, G01N 335800, G06Q 101000, G06Q 300200
 (86) International Application No:NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relatesto use of technology for the introduction of balance family concept for population control and sustainable development. Emerging technologies can play a game chaining role in promoting the concept of a balanced family for population control and sustainable development. Emerging technologies like as cloud computing, IoT, machine learning, one web etc. can be used to control population and achieve sustainable development. Therefore,emerging technologiesare used to control population effectively as well as access to information, support, and healthcare services to remote areas.



Figure 1 shows a block diagram representation of use of technology for the introduction of balance family concept for population control and sustainable development.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321029003 A

(19) INDIA

(22) Date of filing of Application :21/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : EFFECT OF AMINO GUANIDINE AND 5-HT_{1B} AGONIST ON INTERMITTENT NITROGLYCERINE INDUCED MIGRAINE MODEL

(51) International classification :A61K 084300, A61K 311550, A61K 312100, A61P 250600, A61P 252400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a method for establishing a model of migraine and determining the efficacy of therapeutic agents for treating migraine. The method involves repeated administration of glyceryl trinitrate (GTN) to a subject and measuring weight gain, light sensitivity, and locomotor activity. The model can be established in any suitable subject, and the efficacy of therapeutic agents can be tested on the established model. This invention provides a more accurate representation of human migraine symptoms and can lead to the development of more effective migraine treatments.

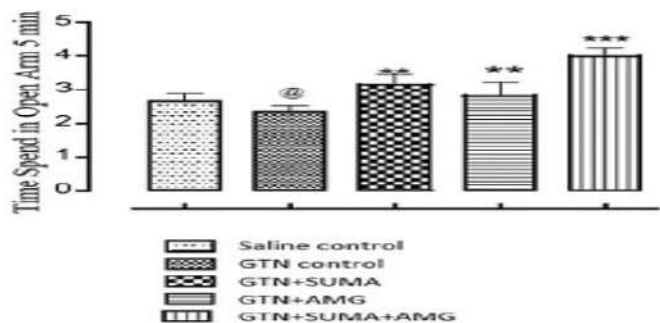


Figure 1

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : ELECTROMECHANICAL DEVICE FOR ARTIFICIAL RESPIRATION

(51) International classification :A61L 311000, A61M 160000, A61M 601220, B81B 030000, G06N 050400
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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 Filing Date :NA

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(57) Abstract :

The present invention discloses an electromechanical device for artificial respiration (100) configured to augment the breathing process by maintaining adequate gas exchange to satisfy respiratory demands including oxygenation and/or elimination of CO₂ during continuous mechanical ventilation of a patient. The device (100) comprises a ball valve mask (BVM) or Ambu bag (1), an electromechanical actuator assembly, and an electronic circuitry powered by a switched-mode power supply unit (8). The electromechanical actuator provides sufficient compression to the BVM (1) based on control signals received from the electronic circuitry. Thus, forward and backward rotation of the electric motor (5) causes a corresponding linear motion of the nut in the ball screw assembly (3) of the electromechanical actuator and produces one breath cycle. Fig. of Abstract: Figure 1

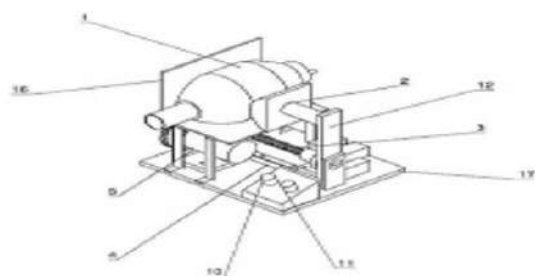


Figure 1: Perspective view of the electromechanical device for artificial respiration (100)

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : A METHOD AND SYSTEM FOR ANALYZING GLOBAL METABOLOMICS AND LIPIDOMICS OF A BIOLOGICAL SAMPLE BY MACHINE LEARNING

(51) International classification :G01N 24/08, G01N 33/48, G01N 33/483, G01N 33/68, G01N 33/92, G01R 33/46

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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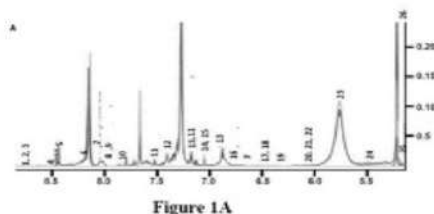
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(57) Abstract :

The present invention relates to a method and system for analysis of global metabolomics and lipidomics of an isolated biological sample by machine learning. The present invention provides an effective method and system for capturing the complete molecular information at the systemic level to obtain cues of metabolic syndrome/disorder or diabetic-like patterns, predicting susceptibility to different metabolic syndrome/disorder or pre-diabetes/diabetes, ability to inkle towards the therapy and track the response of the individual towards the therapy.



No. of Pages : 43 No. of Claims : 8

(54) Title of the invention : PENCICLOVIR NANO-EMULGEL FOR TOPICAL DRUG DELIVERY AND ITS PROCESS FOR PREPARATION

<p>(51) International classification :A61K 090000, A61K 315200, A61K 471000, A61P 170000, A61P 312200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PARUL UNIVERSITY (Faculty of Institute of Pharmaceutical Sciences) Address of Applicant :PARUL UNIVERSITY, LIMDA, WAGHODIA ROAD, VADODARA-391760, GUJARAT, INDIA Vadodara -----</p> <p>2)GUPTA , Mr. PRASHANT 3)PATEL , DR. DIPTI H. Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GUPTA , Mr. PRASHANT Address of Applicant :A-301, Synnove Palladium, Bhayli, TP-2, Near Nilambar Palm, Vadodara, 391410, Gujarat, INDIA Vadodara -----</p> <p>2)PATEL , DR. DIPTI H. Address of Applicant :304, Ashirwad Residency, Vrundavan Park Society, Near Jivan Chetna School, New Sama Road, Vadodara, 390008, Gujarat, INDIA Vadodara -----</p>
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(57) Abstract :

The present invention relates to an Emulgel formulation of Penciclovir and its process of preparation to obtain a stable topical Emulgel formulation of Penciclovir. The invention relates to a process which includes mixing of Penciclovir emulsion comprising at least one surfactant and one or more co-surfactant with oil phase and at least one solvent to form a first pre-mix composition; separately mixing at least one gel forming component and at least one solvent to form a second composition; combining the first pre-mix composition and the second pre-mix composition; and mixing the combined first pre-mix composition and the second pre-mix composition to form a homogeneous Emulgel. The Emulgel formulation exhibits improved drug permeation when compared with cream formulation along with acceptable physical and chemical stability. [Figure 1]

No. of Pages : 23 No. of Claims : 3

(54) Title of the invention : THE MEDIATING EFFECTS OF AUTHORITY OF THE TEACHER AND ITS ROLE IN THE EDUCATIONAL TEACHING AND LEARNING PROCESS

(51) International classification :G06Q 502000, G09B 050800, G09B 051200, G09B 070000, G09B 190000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The proposed invention aims to analyze the mediating effects of teacher authority on the educational teaching and learning process. By collecting data on teacher authority, student behavior, and academic performance, the invention aims to identify the factors that mediate the relationship between teacher authority and student outcomes. The invention has the potential to contribute to the development of evidence-based policies and programs that improve educational outcomes for students, as well as inform the development of targeted teacher training programs that address the specific needs of teachers and students. The invention can also identify best practices for promoting student engagement and participation in the classroom, which can enhance the teaching and learning process. Overall, the proposed invention has the potential to make a significant contribution to the field of education by providing valuable insights into the dynamics of the teacher-student relationship and how it affects the teaching and learning process. Accompanied Drawing [FIGS. 1-2]

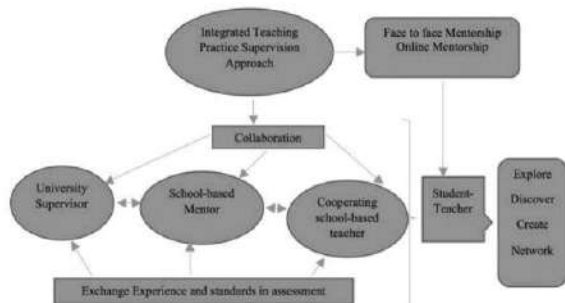


Figure 1

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : A NON-SURGICAL BONE CONDUCTION HEARING AID SPECTACLES WITH DETACHABLE TEMPLES

(51) International classification :A61B 051100, B33Y 700000, G02C 110600, H04R 014600, H04R 250000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A NON-SURGICAL BONE CONDUCTION HEARING AID SPECTACLES WITH DETACHABLE TEMPLES The present invention related to a non-surgical bone conduction hearing aid spectacles with detachable temples (100) having a detachable temple arms (1,2) having a main body (3), a PCB (4), a sound processor (5), a battery (6), a transducer (7), a membrane (8), a silicone membrane insulation cover (9), a power switch (10), a gesture control pad (11), a plurality of microphones (12), a universal connection slot (13), a universal connection (14), a front rims (15), a pogo pin (16), a cover flap (17) a screw slot (18) and a front rims connection (19). The a non-surgical bone conduction hearing aid spectacles with detachable temples (100) can be used as a listening device with the user preferred front rims (15) and if needed as a hearing aid for people suffering hearing loss.

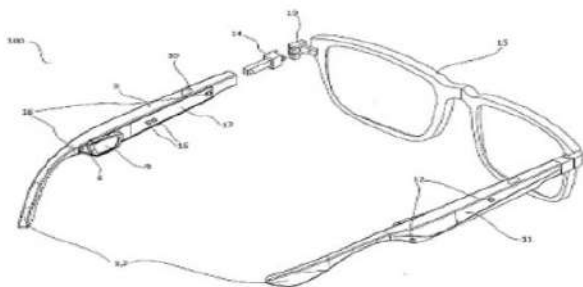


Fig. 1

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : SEMANTIC INFORMATION RETRIEVAL USING BIO-INSPIRED OPTIMIZATION BASED ONTOLOGY CONSTRUCTION

(51) International classification :G06F 093000, G06F 163300, G06F 163600, G10L 254800, H04L 450000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The efficient and accurate information retrieval from a large volume of heterogeneous databases is a challenging issue. The traditional search methods are not effective in retrieving accurate and precise information from these heterogeneous databases. The goal of semantic information retrieval using bio-inspired optimization based ontology construction method is to provide users with the most relevant, suitable and precise information from different sources based on a particular search query. Ontology represents and organizes knowledge/concepts in a particular domain. In this, ontology construction phases are data filtering and data annotation. Optimization based ontology construction is a method of constructing an ontology by using optimization algorithms to identify the best set of concepts and relations to resolve the issue of optimal centroid selection in clustering. This method can help to automate the process of ontology development and to improve relevant information retrieval.

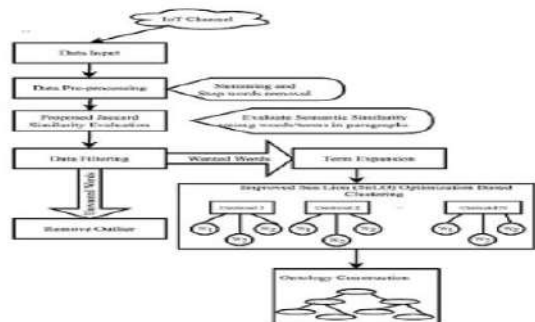


Figure 3: Architecture of proposed Bio-inspired optimization based ontology construction

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : AN AI-POWERED ENTREPRENEURIAL ECOSYSTEM PLATFORM FOR START-UP SUPPORT

(51) International classification :G06F 211000, G06N 030400, G06Q 100600, H02M 013600, H04L 410840
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The proposed invention is an AI-powered Entrepreneurial Ecosystem Platform for Start-up Support that provides a comprehensive support system for start-ups, investors, and mentors. The platform includes a recommendation engine that analyzes start-up data to provide personalized recommendations for resources, mentors, and investors. It also offers a database of resources, mentors, and investors, a communication platform for collaboration and networking, and data analytics tools for start-ups to measure their progress. The platform creates a collaborative ecosystem that fosters innovation and creativity, enabling start-ups to thrive. Overall, the proposed AI-powered platform has the potential to transform the entrepreneurship ecosystem by providing personalized support and recommendations to start-ups, investors, and mentors. Accompanied Drawing [FIGS. 1-2]

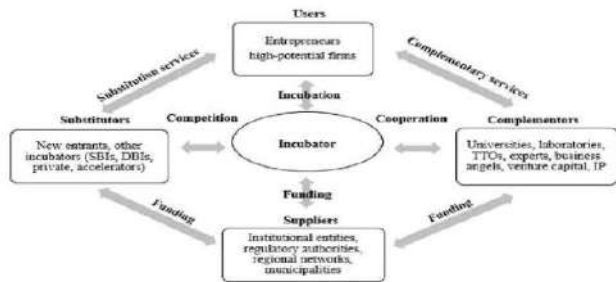


Figure 1

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : SMART MECHANISM TO IDENTIFY THE FINANCIAL SUPPORT PROVIDED BY THE INSTITUTE

(51) International classification :B27K 035200, G06N 200000, G07F 190000, H04W 048000, H04W 880200
 (86) International Application No:NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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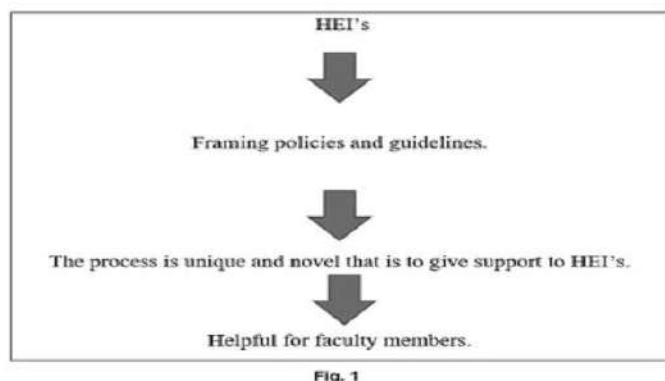
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(57) Abstract :

This invention belongs to the field of applied science and education, its utility is to provide financial support to the institutes for the overall wellbeing of faculty. The main goal of the programmes is to give approved HEIs the ability to host conferences, workshops, and seminars that will advance programme and institution quality. Support will be given a priority to measures to maintain and improve quality, to advance assessment and accreditation, to advance internal quality assessment systems, to promote best practises, to encourage student involvement in quality assurance, and to any other quality-related issues in higher education.



No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : HEATING WALL FOR HOUSES IN COLD WEATHER REGION

(51) International classification :B32B 270800, C10B 290600, F24D 130200, F24D 190000, F28D 010530

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This innovation is based on heat transfer Principle. The main purpose of this Innovation is mainly consist of keeping the house warm in extremely cold climate condition. The houses which are constructed in cold climate with the used of various insulation materials, which are used to keep the houses warm in the cold temperature for a long time. The insulation materials are used for (Walls, Roofs, Windows sealing, foundation) to give the structure warm in cold climate. The main aim of our work is to provide low cost effective house which is economic. The basic & main problem was ice & snow formation that slide, fall or gel windblown from their roofs etc. It many Cause harm to the people & damage the property. Extreme cold start to become a factor when the temperature drops below freezing 32°F (-16.3°C). The extremely cold temperature reach up-to (0.7°C). The difference between inside and outside temperature up-to 20 degree & air inside will still keep humidity up-to 55%. The concrete wall of M20 grade with 2.5mm diameter copper reinforcement and Nichrome wire winding around the reinforcement which is constructed near to the fire place or fire ignition point. The copper reinforcement is attached to fire point. As per principle of heat transfer, the heat energy from outer side is transfer through copper reinforcement inside the concrete wall as well as the heated wall also exchange the heat from concrete to copper reinforcement. In experiment, the concrete block 0.65 x 0.65 x 0.1m size and reinforced with 2.5mm dia. bars winded with Nichrome wire, horizontal and vertical spacing of copper reinforcement is 50mm c/c. Heating process start at room temperature 30°C after 1.5 hour heating the temperature of wall rise about 14°C to 32°C inside the concrete wall panel and temperature rise opposite side of heating surface is about 11°C and temperature rise on the front of heating surface of wall is about 41.5°C

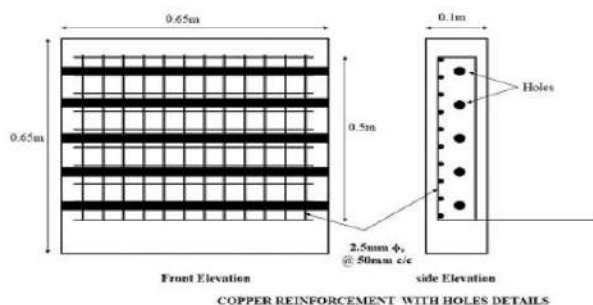


Fig. No 1: Copper reinforcement Details

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : AN INVESTIGATION AND ANALYSIS OF MACHINE LEARNING TECHNIQUES TO MEASURE STUDENTS' PERFORMANCE.

<p>(51) International classification :G01N 350200, G01N 350400, G06N 030400, G06N 030800, G06N 200000</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)RK UNIVERSITY Address of Applicant :RK University, Bhavnagar Highway, Tramba, Rajkot, Gujarat, 360020, INDIA Rajkot ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)LATHIGARA , DR. AMIT M. Address of Applicant :Dean, Faculty of Technology, RK University , Rajkot , Gujarat, 360020, INDIA Rajkot ----- 2)BHATT, DR. NIRAV V. Address of Applicant :Head of Department, Department of Computer Engineering, RK University, Rajkot, Gujarat, 360020, INDIA Rajkot ---- ----- 3)TANNA , DR. PARESH J. Address of Applicant :Professor, Department of Computer Science, RK University, Rajkot Gujarat, 360020, INDIA Rajkot ----- 4)SHINGADIYA , DR. CHETAN J. Address of Applicant :Associate Professor, Department of Computer Engineering, RK University, Rajkot , Gujarat , 360020, INDIA Rajkot ---- ----- 5)DURANI , DR. HOMERA A. Address of Applicant :Assistant Professor, Department of Computer Engineering, Faculty of RK University, Rajkot , Gujarat, 360020, INDIA Rajkot ----- 6)KAKKAD , MISS. ANJU K. Address of Applicant :Assistant Professor, Department of Computer Engineering, Faculty of RK University, Rajkot , Gujarat , 360020, INDIA Rajkot ----- 7)DAVIERWALA , MR. SHEHREVAR Address of Applicant :Assistant Professor, Department of Computer Engineering, Faculty of RK University, Rajkot , Gujarat , 360020, INDIA Rajkot -----</p>
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(57) Abstract :

The investigation and analysis of machine learning techniques to measure students' performance comprising of the students' performance in education institutes via machine learning. More particularly present invention relates to the field of machine learning technology. More particularly, the present invention relates to a machine learning based system for predicting the academic performance of students. As present invention, in performed to identify the factors that affect student's academic performance. The main objective of this research is to build predictive model for student's academic performance along with some socio-economic parameter. Also, the present invention of the proposed research methodology is to maximize retention ratio of the students in the institute by predicting the students' performance. The present invention uses Machine Learning algorithm for Feature Selection, Classification and Clustering. The proposes combination of both techniques will perform better on collected dataset and attributes and also other supporting members of the embodiments of present invention.

No. of Pages : 26 No. of Claims : 4

(54) Title of the invention : UNMANNED GROUND VEHICLE WITH ADVANCED SENSOR AND NAVIGATION SYSTEMS FOR AUTONOMOUS OPERATION

(51) International classification :B60K 070000, F41H 070000, G01C 213600, G05D 010000, G05D 010200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
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 Filing Date :NA

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(57) Abstract :

This invention relates to an unmanned ground vehicle (UGV) with advanced sensor and navigation systems for autonomous operation. The UGV includes a commercial off-road vehicle platform with electrical actuators, an energy unit, and a sensor unit with cameras and laser scanners. A positioning unit and navigation unit generate optimal routes for the UGV to follow based on environmental data. The UGV can operate remotely and autonomously, making it suitable for hazardous or remote environments. A motion control system detects and avoids obstacles to enhance safety. The energy unit provides both 12 and 24 volts for use with a variety of mission-specific payloads. The UGV's streamlined manufacturing process ensures optimal component integration, while the graphical user interface of the user device allows for intuitive control and monitoring. The UGV can supply power for several hours, and the additional charger uses electricity from an electric socket.

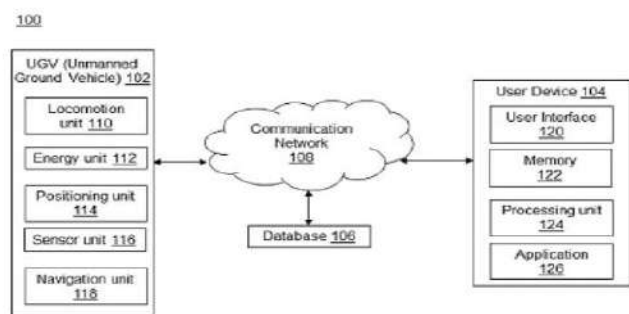


FIG. 1

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321029706 A

(19) INDIA

(22) Date of filing of Application :25/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTIBACTERIAL NOVEL 1H-INDAZOLE SCHIFF BASE DERIVATIVES

(51) International classification :A61P 310400, C07C 490200, C07C 512400, C07D 315600, C09D 051400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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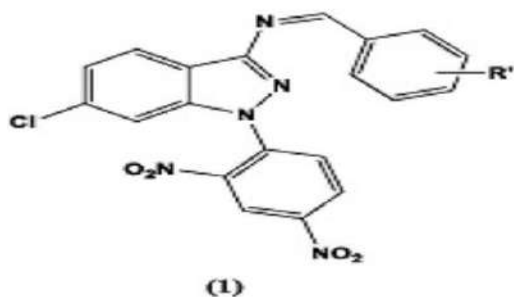
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(57) Abstract :

The present invention discloses a novel 1H-Indazole Schiff base derivatives represented by the following structural formula (1) having anti-bacterial activity.



No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : AN APPARATUS FOR SUGARCANE HARVESTING

(51) International classification :A01D 451000, A01D 462600, A01N 435400, A61K 368990, H02J 502000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

AN APPRATUS FOR SUGARCANE HARVESTING The present disclosure provides an apparatus (100) for sugarcane harvesting. The apparatus (100) includes two or more dividing rollers which are adapted to remain in contact with the ground and adapted to divide a plurality of sugarcane (100a), a primary cutter (106) configured to separate the plurality of sugarcane (100a) from the ground. Moreover, a distance of the primary cutter (106) from the ground is adjustable. The apparatus (100) includes a plurality of pairs of detaching rollers (108a, 108b) having wired brushes, which perform detaching of leaves from the plurality of sugarcane (100a). The apparatus (100) includes a collecting mechanism for collecting the plurality of sugarcane (100a) received from the plurality of pairs of detaching rollers. The apparatus (100) is advantageous to avoid wastage of sugarcane during harvesting and to reduce fuel consumption.



Figure 1: LAYOUT OF SUGARCANE HARVESTING SYSTEM

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2023

(21) Application No.202321029907 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : THE SMART FINANCE AND ACCOUNTING MANAGEMENT MODEL'S ARTIFICIAL INTELLIGENCE PERSPECTIVE FRAMEWORK

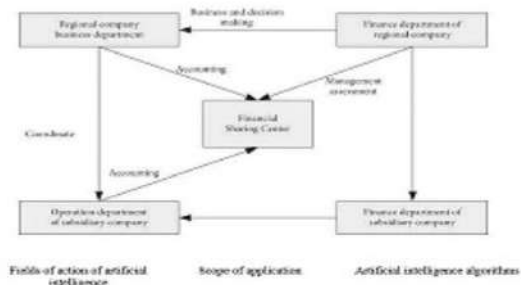
(51) International classification :G06N 200000, G06Q 400000, G06Q 400200, H04R 050270, H04R 290000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
THE SMART FINANCE AND ACCOUNTING MANAGEMENT MODEL'S ARTIFICIAL INTELLIGENCE PERSPECTIVE FRAMEWORK As a consequence of asset reorganization, industry alliances, and industry mergers, a few large enterprise groups have emerged. All of these factors have altered the financial management practices of businesses. As a consequence of these modifications, contemporary corporate standards have been implemented. The primary objective of this study is to investigate how the AI-based smart accounting management model architecture was developed. The network hub for the interchange of financial information that provides these services is unrelated to regional logistics offices. Thanks to the centralized accounting sharing center, the various locations of the shipping company can now access standardized and unified accounting, asset management, currency revenue and expenditures, and other financial services. Despite the fact that the network configuration is open, the platform for sharing accounting and financial data is a closed system. Since the common accounting and financial data platform reports to a single group of decision-makers, each department has input into its operation. It is sufficient to disregard the program's internal logical structure and internal properties during testing. Instead, concentrate solely on the software's exterior. On the assumption that the system is a black box, the boundary value analysis method, the equivalence class division method, and the causality approach are used to determine how it operates. At the system interface, numerous technological approaches, such as the graph method and the error conjecture method, are evaluated to determine if they can produce accurate results. Accounting shared services, an accounting method, must be implemented promptly, ensuring that all evaluations of related activities are accurate and equitable. In the evaluation index method, the quantitative measures should be the most crucial. The entire scoring system can be utilized by specialists to grant points in a specialized scoring system. This not only makes the evaluation process more useful and actionable, but also ensures that the results are accurate and impartial. The average value of the working net profit margin is 0.088731, while the median value is 0.082263. The results demonstrate that the wise financial management model has advanced significantly due to the application of artificial intelligence technologies.



No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : SELF-MICROEMULSIFYING HERBAL FORMULATION OF CLEMATIS GOURIANA FOR DIABETES TREATMENT

(51) International classification :A61K 091070, A61K 361850, A61K 367160, A61P 031000, A61P 170200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention provides a self-microemulsifying herbal formulation of Clematis gouriana, comprising of ethanolic leaf extract of Clematis gouriana; Sefsol® 218 ranges from 0.42 to 0.58 % w/v; Cremophor® EL ranges from 3.15 % w/v to 3.75 % w/v and Transcutol® P ranges from 1.05 to 1.25% w/v. The process for the preparation of self-microemulsifying herbal formulation, comprising of adding ethanolic leaf extract of Clematis gouriana to the Sefsol® 218 and solubilizing by stirring; taking Cremophor® EL and Transcutol® P into the above solution and adding drop wise water with continuous stirring to form homogeneous micro-emulsion. The process for the preparation of ethanolic leaf extract of Clematis gouriana, comprising of washing leaves of Clematis gouriana and drying in shade for 15 to 20 days at room temperature; powdering the dried leaves and passing powder through sieve and extracting the material using different solvents by Soxhlet extractor; filtering, concentrating, and drying the extracts using rotary evaporator and storing it. The smallest globule size of formulation 26.91 ± 0.66 nm, poly-dispersity index 0.224 and the blood glucose level 94.83 ± 3.66 mg/dl in 8 hours after treated with herbal formulation of Clematis gouriana. The self-microemulsifying herbal formulation of Clematis gouriana, has potential for treatment of diabetes.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/04/2023

(21) Application No.202321030472 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANALYZING EMPLOYEE MOTIVATION AND THE WAY IT AFFECTS ORGANISATIONAL PRODUCTIVITY WITH BUSINESSES FROM THE PRIVATE AND PUBLIC SECTORS

(51) International classification :G06Q 100600, G06Q 101000, G06Q 300200, H04L 411200, H04W 881600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
ANALYZING EMPLOYEE MOTIVATION AND THE WAY IT AFFECTS ORGANISATIONAL PRODUCTIVITY WITH BUSINESSES FROM THE PRIVATE AND PUBLIC SECTORS Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of arti?cial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of arti?cial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of arti?cial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society The primary objective of management should be to increase morale and work output by tying employee motivation to company objectives. This is an essential aspect of leadership. This is challenging because the varieties of jobs available are constantly changing. Numerous factors influence what individuals value and appreciate most in life. This study examines the connections between employee motivation and workplace productivity. The research examines how a variety of well-known incentive theories can be implemented to increase workplace productivity. According to the findings of the study, employees' beliefs regarding what motivates them vary. Numerous theories on what motivates individuals, as well as their applications and consequences, have been proposed and discussed in the literature. There were three research queries posed: How does one generate ideas? How can we motivate our employees to work harder so that our organisation is more productive as a whole? The study found that motivation can both increase and decrease the productivity of individuals at work. Performance improves when an employee's desires are satisfied by the incentive programme. However, the reward will be reduced if the employee's chosen incentive is insufficient to meet their requirements. As a result, businesses are compelled to address the diverse needs of their employees in order to maintain employee engagement.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/04/2023

(21) Application No.202321030483 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AI-BASED IMAGE RECONSTRUCTION FOR LOW-DOSE CT SCANS

(51) International classification :G06T 050000, G06T 055000, G06T 110000, G16H 304000, G16H 502000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Low-dose computed tomography (CT) scanning is a valuable tool in medical imaging, but it poses challenges in terms of image quality and diagnostic accuracy. To address these challenges, researchers and industry experts are developing AI-based image reconstruction algorithms that can generate high-quality images from low-dose scans. This proposed invention presents a system and method for AI-based image reconstruction for low-dose CT scanning, comprising a deep learning algorithm trained on a diverse dataset of CT images and optimized for low-dose protocols. The invention also includes a user-friendly interface and integration framework for seamless integration into existing medical imaging workflows. The development of AI-based image reconstruction has the potential to revolutionize medical imaging and improve patient outcomes, and continued research and collaboration are necessary for its successful implementation.

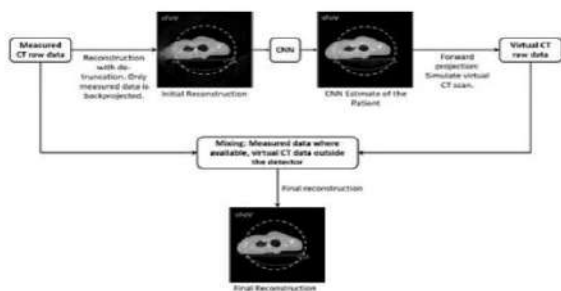


Figure 1: Functional flow diagram of proposed invention

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : MOTORIZED ELECTRIC WHEELCHAIR ATTACHMENT

(51) International classification :A61G 050400, A61G 050600, A61G 050800, A61G 051000, A61G 051200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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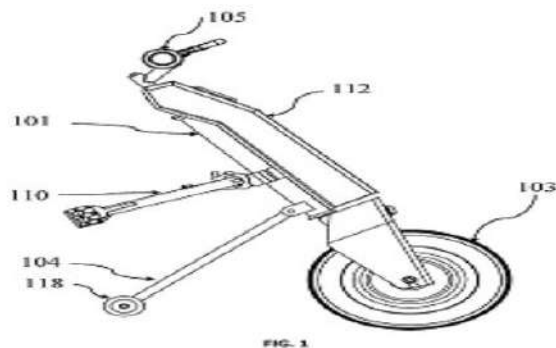
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(57) Abstract :

Disclosed is a mobility platform, system, method, and a detachable motorized electric wheelchair attachment capable of attaching to the wheelchair to enhance the mobility capability comprising of an angle changing mechanism controlled by the angle unlocking lever to change the angle of the connecting arm fixed with a pair of an interlocking clamp to the front structure of the wheelchair. The angle of the connecting arm can further be reinforced using a threaded locking knob to avoid any accident. Further, a support stand is provided with wheels to enable the motorized electric wheelchair attachment to stand freely and move with ease while attaching and detaching it to the wheelchair. A brake assembly is provided to stop the motion along with a detachable battery system to enhance the usability and range of the motorized electric wheelchair attachment.



No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/04/2023

(21) Application No.202321030504 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITION USEFUL FOR THE PREVENTION OF PERIPHERAL NEUROPATHY CAUSED BY ANTICANCER AGENTS

(51) International classification :A61K 090000, A61K 095000, A61P 250000, A61P 250200, A61P 350000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

The current invention's objective was to describe the expected course of the early histopathological neuropathy symptoms in order to aid in the early identification of peripheral nerve injury. The present invention also relates to a composition for the early detection, relief, or treatment of peripheral neuropathy, particularly chemotherapy-induced peripheral neuropathy (CIPN), which is caused by drugs like paclitaxel. The composition uses eliprodil and its enantiomer as the free base or pharmaceutically acceptable acid adduct salt. This pharmaceutical composition for avoiding peripheral neuropathies generated by anticancer drugs contains eliprodil of the formula and its enantiomer as the free base or pharmaceutically acceptable acid adduct salt. Eliprodil and its enantiomers antagonist acting at polyamine sites, in behavioral and neurochemical tests predictive of antidepressant activity. An anticancer agent could be present in the mixture (preferably paclitaxel). When paclitaxel is administered, intellectual impairments may result. The composition can avoid this. In addition to paclitaxel, the composition is effective against neuropathies-inducing anticancer drugs like cisplatin, vinblastine, vincristine, and vindesine.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : PSYCHROMETRIC EVAPORATOR

(51) International classification :B05B 166000, F24F 102000, F24F 113000, G01N 256400, H04L 435000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

Abstract Psychrometric Evaporator provides novel pre-evaporation system in which Ambient air (10) and liquid (19) come in contact and the water mist or droplets (17) gets absorbed by water without any dissolved solids (20) at the top of Evaporative chamber (3). The Droplet separator (4) separates the water droplets (17) from exhaust air (13), and only moist air (11) is exhausted. At the discharge portion of Centrifugal blower (1), Automated diverter with controller (6) constantly gets signal from the RH meter (16) incorporated at the Exhaust with absorber (7) point and controls the exhaust air (13) to gain the optimum possible RH (15). At the exhaust point of evaporator (22), Exhaust with absorber (7) absorbs the TOC and odour (18) which cracks at the time of aeration and absorption process at the evaporative chamber (3) based on liquid (19).

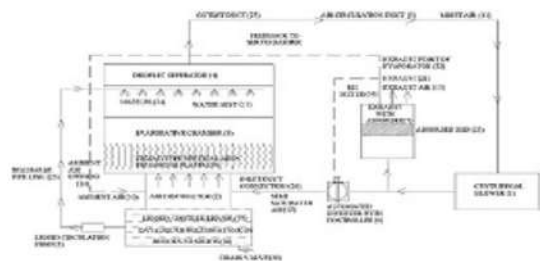


Figure 3: Block Diagram of the Psychrometric Evaporation System

No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321030509 A

(19) INDIA

(22) Date of filing of Application :27/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ANALYSIS OF MEDICAL IMAGING MODALITIES USING MACHINE LEARNING FOR CLASSIFICATION AND PREDICTION OF LUNG CANCER

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(51) International classification	:G06K 096200, G06N 030400, G06N 030800, G06N 200000, G16H 304000	(72)Name of Inventor : 1)Prof. Madhuri Kethari Address of Applicant :Assistant Professor, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410508, Haveli, Maharashtra, India Pune ----- 2)Prof. Smita Rajendra Desai Address of Applicant :Assistant Professor, ENTC department. Dr. D. Y. Patil Institute of technology, Pimpri, Sant Tukaram Nagar, Pune - 411018 Maharashtra, India Pune ----- 3)Prof. Sarojini Vinay Naik Address of Applicant :Assistant Professor, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410507, Haveli, Maharashtra, India Pune ----- 4)Dr. Latika Rahul Desai Address of Applicant :HoD, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410507, Haveli, Maharashtra, India Pune ----- -----
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a system and method for analysing of medical imaging modalities using machine learning for classification and prediction of lung cancer. The methodology proposed in the invention used to classify and forecast lung cancer using machine learning includes data collection for collecting the relevant data, data pre-processing for pre-processing the data to remove noise, check missing values, or other irregularities, feature extraction for extraction of features entails choosing the pre-processed data's most pertinent features, model training to train a Machine Learning model on the data, model evaluation for performance evaluation of trained model on a separate set of data that was not used during training and finally prediction to make predictions on new data.

No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE FRAMEWORK FOR EARLY SCREENING AND DIAGNOSIS OF LUNG CANCER

(51) International classification :A61P 350000, C12Q 016886, G01N 335740, G06T 050000, G16Z 990000
 (86) International Application No.:NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The invention relates to a system and method for implementation of Artificial Intelligence framework for early screening and diagnosis of lung cancer. The methodology proposed in the invention includes steps: data gathering to train AI algorithm, data pre-processing on gathered data to handle any noise, artefacts, or irrelevant elements that can impair the accuracy of the AI system, feature extraction from the pre-processed data, pertinent features are extracted in this step, development of an AI Model. The model use a variety of machine learning techniques, including Support Vector Machines (SVMs), Decision Trees, Random Forests, and Convolutional Neural Networks (CNNs). The next step is training and validation to make sure the model can reliably predict the diagnosis of new patients, deployment and testing of AI framework. It is important to note that the accuracy of the AI framework will depend on the quality and quantity of the data used to train the model. Therefore, ongoing data collection and model refinement will be necessary to ensure the framework is continuously improving its accuracy and efficiency.



FIG. 1 AI FRAMEWORK FOR EARLY SCREENING AND DIAGNOSIS OF LUNG CANCER

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321030515 A

(19) INDIA

(22) Date of filing of Application :27/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PROCESS FOR THE PREPARATION OF 7-AZAINDOLE HYBRIDS AS POTENTIAL ANTITUMOR AGENTS

(51) International classification :A61K 314370, A61P 350000, C07D 074200, C07D 710400, C12Q 016895
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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4)Dr. Madhvi Joshi

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5)Dr. Amrutlal K. Patel

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(57) Abstract :

Abstract: Process for the Preparation of 7-Azaindole Hybrids as Potential Antitumor Agents endowed with metal free reaction condition, easily available starting materials (e.g readily available feedstock), short reaction time and good to excellent yield of 7-azaindole hybrids and it describes the most efficient and novel method for preparing 2 and 5-substituted 7-azaindole hybrids from tetrazolo[1,5-a]pyridine/tetrazolo[1,5-a]quinoline intermediates via thermal intramolecular denitrogenative transannulation/C(sp²)-H amination in Dowtherm-A as an eutectic solvent. The evaluation of antitumor activity of the novel derivatives of 2-aryl-7-azaindoles (Formula (Ia) and Formula (Ib)) tested against human breast adenocarcinoma (MCF-7) cell growths, showed that several derivatives have potential to inhibit the MCF-7 cell growths in the range of 200-300µM concentrations

No. of Pages : 35 No. of Claims : 5

(54) Title of the invention : NOVEL ELECTRICAL PERIPHERAL NERVE STIMULATOR WITH WIRELESS CONTROLLABILITY

<p>(51) International classification :A61F 020000, A61N 010500, A61N 013600, A61N 013780, A61P 250200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Amit Rathod Address of Applicant :B202, Yana Flat, ISCON Megacity gate no 5, Bhavnagar, Gujarat - 364002, India Bhavnagar -----</p> <p>2)Dr. Hetal Limbani Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Amit Rathod Address of Applicant :B202, Yana Flat, ISCON Megacity gate no 5, Bhavnagar, Gujarat - 364002, India Bhavnagar -----</p> <p>2)Dr. Hetal Limbani Address of Applicant :B202, Yana Flat, ISCON Megacity gate no 5, Bhavnagar, Gujarat - 364002, India Bhavnagar -----</p>
--	---

(57) Abstract :

Peripheral nerve stimulation has been widely used in regional anesthesia. Recently, a new generation of peripheral nerve stimulation devices has been developed; these allow microcontroller system to control the output pulse properties this implantation is significantly compact and handy. In this review, we discuss the history, implantation process, and outcomes of employing peripheral nerve stimulation used for the regional anesthesia.



Figure 1: PNS device

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2023

(21) Application No.202321030688 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : TOXICOLOGICAL EVIDENCE IN FORENSIC PHARMACOLOGY

<p>(51) International classification :A61K 084100, A61K 091900, A61K 474000, A61P 131000, C07F 096558</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Tilak Ram Address of Applicant :Assistant Professor, Department of Forensic Science, Medi-Caps University, Indore, Madhya Pradesh -----</p> <p>2)Dr. Moumita Sinha 3)Dr. I Arjun Rao 4)Ms. Neelam Ahirwar 5)Miss. Varsha Rani Patel Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Tilak Ram Address of Applicant :Assistant Professor, Department of Forensic Science, Medi-Caps University, Indore, Madhya Pradesh -----</p> <p>2)Dr. Moumita Sinha Address of Applicant :Assistant Professor, Department of Forensic Science, Kalinga University, Raipur, Chhattisgarh - 492001 -----</p> <p>3)Dr. I Arjun Rao Address of Applicant :Faculty of Forensic Science, School of Life Sciences, Christ(Deemed to be University), Bangalore, Karnataka -----</p> <p>4)Ms. Neelam Ahirwar Address of Applicant :Assistant Professor, Department of Forensic Science, Kalinga University, Raipur, Chhattisgarh - 492001 -----</p> <p>5)Miss. Varsha Rani Patel Address of Applicant :Assistant Professor, Department of Forensic Science, Medi-Caps University, Indore, Madhya Pradesh -----</p>
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(57) Abstract :

The present invention relatestotoxicological evidence in Forensic Pharmacology.Toxicological evidence is used to investigate cases involving chemical exposer such as poisoning, drug overdoses etc. This evidence is collected in form of biological specimens like as blood, urine, or hair samples that are tested for the chemical exposure. The evidence is analyzed by gas chromatography-mass spectrometry (GC-MS) and high-performance liquid chromatography (HPLC) to detect and quantify drugs in biological samples.This evidence is used as an essential tool in forensic pharmacology, providing critical information relate to cause of death, identifying the presence of drugs in criminal cases and help solve.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : MULTI-FEATURE EXTRACTION IN EXTREME MACHINE LEARNING USING IOT AND INTRUSION DETECTION MODEL

<p>(51) International classification :G06F 215500, G06N 030000, G06N 030400, G06N 030800, G06N 200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Latika Rahul Desai Address of Applicant :HoD, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410507, Haveli, Maharashtra, India Pune ----- ----- 2)Prof. Sarojini Vinay Naik 3)Prof. Madhuri Kethari 4)Prof. Smita Rajendra Desai Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Latika Rahul Desai Address of Applicant :HoD, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410507, Haveli, Maharashtra, India Pune ----- ----- 2)Prof. Sarojini Vinay Naik Address of Applicant :Assistant Professor, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410507, Haveli, Maharashtra, India Pune ----- 3)Prof. Madhuri Kethari Address of Applicant :Assistant Professor, Artificial Intelligence and Data Science, Dr. D. Y. Patil College of Engineering and Innovation, Varale, Pune - 410508, Haveli, Maharashtra, India Pune ----- 4)Prof. Smita Rajendra Desai Address of Applicant :Assistant Professor, ENTC department. Dr. D. Y. Patil Institute of technology, Pimpri, Sant Tukaram Nagar , Pune - 411018 Maharashtra, India Pune -----</p>
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(57) Abstract :

The invention relates to a system and method for multi-feature extraction in extreme machine learning using iot and intrusion detection model. In the proposed invention, we are using statistical techniques such as principal component analysis (PCA) or independent component analysis (ICA) to reduce the dimensionality of the data and extract relevant features and combining it with deep learning methods such as convolutional neural networks (CNNs) or recurrent neural networks (RNNs) to extract high-level features from raw data. Once the features have been extracted, the next step is to fed them into a machine learning model such as a decision tree, random forest, or support vector machine (SVM) to classify the data and detect potential intrusions. It's essential to note that selecting the right combination of features is critical for achieving high accuracy in intrusion detection models and Iot. One or more multi-feature extraction is a powerful tool for improving the accuracy of intrusion detection models in IoT networks. By leveraging XML and advanced machine learning algorithms, companies can prevent their assets and data from cyber attacks.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : INTERNET OF THINGS AND IMAGE PROCESSING BASED APPROACHES FOR DRIVER DROWSINESS DETECTION AND ALERT SYSTEMS

(51) International classification :A61B 051800, B60K 280600, B60N 029000, G08B 060000, G08B 210600
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The invention relates to a system and method of Internet of Things and Image Processing based approaches for Driver Drowsiness Detection and Alert System. The methodology for identifying sleepy drivers includes following steps. Data collection using IOT device, data processing for image processing on collected data, identifying behavioral aspects of driver by image processing and passing it to comparator for comparison; comparing the behavioral parameters with threshold parameters. Threshold parameters or images are present in the database and these are images acquired from the past data. Next step is detection where driver drowsiness based on comparison between real-time data and threshold data is detected and the last step is alerting the driver directly or to authorized person who can alert driver.



Fig. 1: Framework for Internet of things and image processing based approaches for driver drowsiness detection and alert system

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : SYSTEM ENABLED TRACKING OF TRUE INFORMATION IN SOCIAL MEDIA DURING ELECTIONS

(51) International classification :A63F 138000, G06Q 500000, H04L 093200, H04M 017243, H04N 214820
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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9)Dr. Ajay Jain
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(57) Abstract :

This invention belongs to the field of Journalism and application of this invention is to scrutinize the correct information/news in the nation to make the surroundings healthy and strong. Despite the rise in the usage of social media platforms for news and information collecting, these platforms' lack of moderation frequently promotes the creation and spread of rumours, or information that is unconfirmed at the time of publishing. At the same time, the transparency of social media platforms offers opportunity to research how users spread and discuss rumours as well as to investigate ways to employ data mining and natural language processing to automatically determine whether they are true. In this article, we introduce and discuss two categories of rumours that spread on social media: persistent rumours that have been around for a while and recently-emerging rumours that were sparked by quick-moving events like breaking news, where reports are often released in fragments and with an unverified status in their initial stages.



Fig. 1

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321030829 A

(19) INDIA

(22) Date of filing of Application :29/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR USE OF BACILLUS CLAUSII IN ANIMAL FEED (FOR POULTRY, SWINES AND CANINES)

(51) International classification :A23K 507500, A61K 357420, A61K 391350, A61P 311400, C12N 070000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention of the Applicant relates to the use of alkalihalobacillus clausii or its old scientific name Bacillus clausii in animal feed for improving performance of animals such as poultry, swine and canines. The present invention of the Applicant aims to provide use of Bacillus clausii in poultry feed and drinking water for improving digestion and absorption of the nutrients and maintenance of gut microflora against diarrhoea. Bacillus clausii is mixed in an amount of 2.5 billion CFU per gram and doses range 50-250 gm per ton of feed. This specific mixture is then fed to the animals such as poultry, swine and canine. This use of Bacillus clausii in poultry increases weight gain and/or improves the Feed Conversion Ratio (FCR) in broiler. Such use of Bacillus clausii also reduces diarrhea problem in above-mentioned animals.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : A SYSTEM OF AUTOMATIC MULTISTAGE DEEP DRAWING PROCESS FOR SHEET METAL COMPONENT BY USING AI TECHNIQUE

(51) International classification :B21D 222000, C10N 300600, G01N 294600, G03G 150000, G03G 211600
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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Address of Applicant :Research Scholar Gujarat Technological University, Lecturer, Information Technology, Government Polytechnic, Rajkot, Gujarat, INDIA Rajkot -----

(57) Abstract :

The system of automatic multistage deep drawing process for sheet metal component by using AI technique comprising AI in the Working Model for Sheet Metal Component (SMC) Die for Multistage Deep Drawing Process. In which method for designing a die for a multi-stage deep drawing process having receiving input data from final product shape and material properties; in which an expert system to analyze the input data and determine optimal die geometry and process parameters, and also displaying the determined optimal die geometry and process parameters. Other ways system for designing a die for a sheet metal component using artificial intelligence input device for receiving input data related to desired final product shape and material properties, in which processor configured to use an expert system to analyze the input data and determine optimal die geometry and process parameters, display device configured to display the determined optimal die geometry and process parameters.

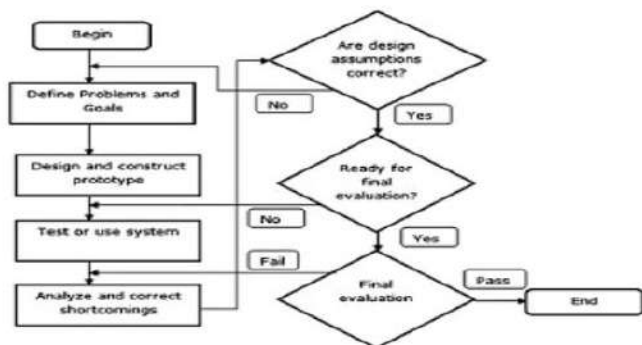


Figure 1

No. of Pages : 26 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321030873 A

(19) INDIA

(22) Date of filing of Application :29/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MACHINE LEARNING BASED FRAMEWORK FOR OBSERVATION OF COVID PATIENT USING BLOCK CHAIN

(51) International classification :G06N 030800, G06N 200000, G16H 502000, H01L 270200, H02H 090400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A Machine learning based framework for observation of covid patient using Block Chain ABSTRACT The present invention relates to a method for observation post covid recovered patient using machine learning model and block chain technique. The objective of present invention is to solve the anomalies presented in the prior art techniques and technologies related to healthcare monitor of patient who has recovered for the covid-19 disease. The disclosure presents a block chain integrated remote post covid patient observation which is machine learning and Biomedical sensor based smart wearable devices for collecting various physiological and health related parameters of the patient. Its aim is to help remotely living post covid patient to gain access to healthcare units seamlessly and avail services without time and geographical restrictions. The invention is integrated with block chain technology in order to make sensitive healthcare transactions immutable leading to data integrity and non- repudiation. Further, the system is equipped enough with machine learning models to infer the data available and detect any abnormal pattern related to health issues. It has provision to capture post covid patient vital signs and send to doctors. The mobile application or user interface pulls data from the machine learning model based central server and showed to doctor from time to time. Thus, doctor can view post covid patient health details and support near real-time observation and treatment to save lives of post covid patient besides their valuable time and effort. In this way, the observation of post covid recovered patient becomes easy patient and family can be avoided from harm of lives.

No. of Pages : 26 No. of Claims : 5

(54) Title of the invention : SPEED REDUCTION AND ACCIDENT PREVENTION SYSTEM FOR EV MOTOR DRIVES

(51) International classification :B60T 072200, B60T 137400, G06N 030800, G07C 090000, H04L 694000

(86) International Application No.:NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to

Application Number :NA

Filing Date :NA

(62) Divisional to Application

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(57) Abstract :

To reduce accidents in areas with a high accident rate, safety is paramount in the automotive industry. Minimizing the loss of life and property is the goal. According to field surveys, accidents occur when people are in a rush to reach their destination near sharp turns, slippery roads, direction changes, school zones, and hospital zones. Therefore, the automatic speed control for vehicles in this area. The goal is to create and build a vehicle control system that reduces speed gradually while automatically reducing it in hotspot regions. The Communication with the system with the help of the transmitter and receiver in their zone and the signal is passed then motor is speed reduced systematic manner and finally stopping of the car according to conditions. System work to achieve the safety of vehicle. Once the technique is implemented the accidents will be reduced.

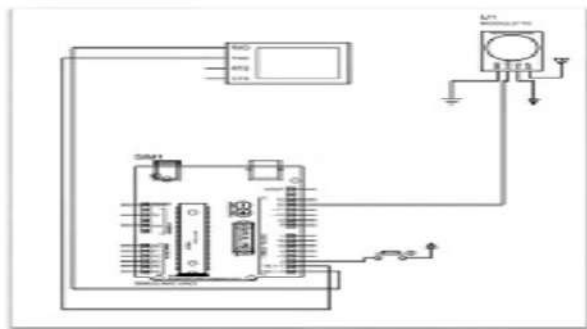


Fig. 1 transmitter circuit.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : SYSTEM AND METHOD FOR A HYBRID FUZZY PD-PI PLUS FUZZY P CONTROLLER FOR FREQUENCY REGULATION OF ELECTRICAL POWER SYSTEM

(51) International classification :B60W 100600, G05B 130200, G06N 070200, H02J 030000, H04L 472400
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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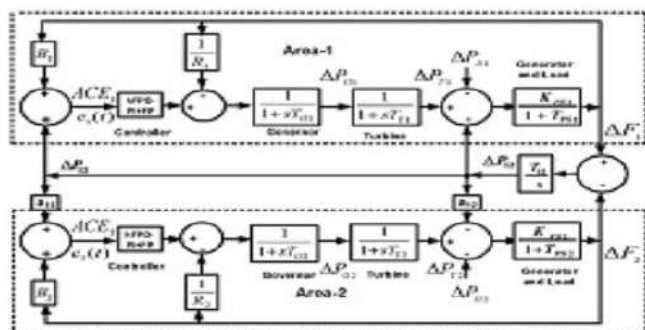
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(57) Abstract :

For the dependable, safe, and stable operation of electric systems, frequency should be regulated continuously employing appropriate intelligent controllers. Hence, this paper proposes a hybrid Fuzzy PD-PI plus Fuzzy P (hFPD-PI+FP) controller for frequency regulation of power system. The objective of this paper is to investigate the effectiveness of proposed hFPD-PI+FP controller in a standard power system and compare its performance with some established frequency control approaches available in literature. For this, a non-reheat type two-area thermal system is taken and the improvement of the suggested approach over the Bacteria Foraging Optimization Algorithm (BFOA), Teaching Learning Based Optimization (TLBO), Jaya Algorithm (JA), Genetic Algorithm (GA) and Hybrid BFOA and Particle Swarm Optimization Algorithm (hBFOA-PSO) for the identical test system has been demonstrated.

Figure 1: Two area system under study



No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : DEVELOPMENT OF ARTIFICIAL INTELLIGENCE ALGORITHMS FOR REAL TIME SPEED ESTIMATION BASED ON VEHICLE DETECTION

(51) International classification :B29C 450400, B29C 453700, B29C 454000, B29K 050000, G06N 070000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 DEVELOPMENT OF ARTIFICIAL INTELLIGENCE ALGORITHMS FOR REAL TIME SPEED ESTIMATION BASED ON VEHICLE DETECTION The present invention relates to development of artificial intelligence algorithms for real time speed estimation based on vehicle detection. Automobiles have increased urban mobility, but traffic accidents have also increased. Road safety is a significant concern involving academics and government. With technological advances, artificial intelligence, and videos, it is possible to estimate the speed in real-time without modifying the installed urban infrastructure. Usually, a set of constraints are considered, such as camera calibration, flat roads, including methods based on the homography and augmented intrusion lines, patterns or regions, or prior knowledge about the actual dimensions of some of the objects. The vehicle estimation requires a feature extraction process using YOLOv3 and Kalman filter to detect and track vehicles. The Linear Regression Model (LRM) yielded the best results obtaining a Mean Absolute Error (MAE) of 1.694 km/h for the center lane and 0.956 km/h for the last lane. The results were compared with several state-of-the-art works, having competitive performance. Hence, LRM is fast estimating speed in real time and does not require high computational resources allowing a future hardware implementation Figure of abstract: FIG. 1

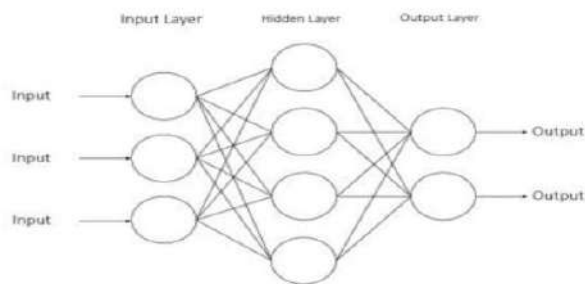


FIG. 1

No. of Pages : 15 No. of Claims : 2

(54) Title of the invention : METHOD FOR SYNTHESIZING METAL-ORGANIC FRAMEWORKS WITH TUNABLE PORE SIZES FOR GAS SEPARATION

(51) International classification :B01D 530200, B01D 530470, B01D 532200, B01D 670000, B01J 202200
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to :NA
 Application Number :NA
 Filing Date :NA
 (62) Divisional to Application :NA
 Number :NA
 Filing Date :NA

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(57) Abstract :

This invention relates to a method for synthesizing metal-organic frameworks (MOFs) with tunable pore sizes for gas separation applications. MOFs are porous materials that consist of metal ions or clusters connected by organic ligands. They have high surface areas and tunable pore sizes, making them attractive for gas separation. The proposed method involves selecting an appropriate combination of metal ions and organic ligands, and controlling the synthesis conditions to obtain MOFs with a desired pore size. The pore size can be tuned by adjusting the length and/or flexibility of the organic ligands, or by introducing guest molecules into the MOF structure. The resulting MOFs have high gas separation performance and can be used in a variety of applications such as natural gas purification, hydrogen storage, and carbon capture.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : ELECTROCHEMICAL DEVICE AND ELECTRONIC DEVICE

(51) International classification :F28D 150400, H01G 113000, H01G 113800, H01G 115000, H01M 100525
 (86) International Application No :PCT/CN2020/114083
 Filing Date :08/09/2020
 (87) International Publication No :WO 2022/051914
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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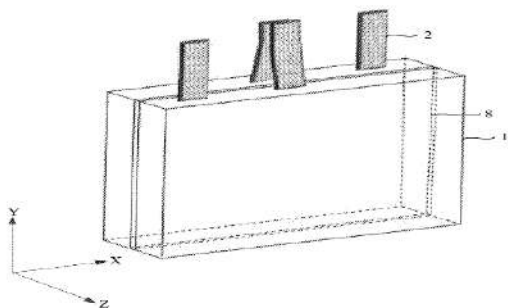
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(57) Abstract :

The present application provides an electrochemical device and an electronic device. The electrochemical device comprises at least two electrode assemblies and a packaging shell, wherein the electrode assemblies are respectively arranged in respective independent cavities in the packaging shell; each electrode assembly comprises two tabs with opposite polarities, at least one tab of one electrode assembly is connected to one of the two tabs of the other electrode assembly, and the orthographic projections of the two connected tabs along the seal thickness direction Z have tab overlapping regions; and when observed along the seal thickness direction Z, the overlapping width of the two connected tabs accounts for $40\% < \alpha \leq 100\%$ of the width of any tab at the outer edge of a seal of the packaging shell along the seal length direction X. The electrochemical device provided by the present application not only realizes high-voltage output, but also improves the packaging reliability of the tab region during high-voltage output. (To be published with Figure 1)



[图 1]

No. of Pages : 52 No. of Claims : 15

(54) Title of the invention : A DEVICE AND METHOD FOR PHENOTYPIC DETECTION OF ANTIMICROBIAL RESISTANCE TO DRUGS USING PAPER MICROFLUIDICS

(51) International classification :B01L0003000000, G01N0033569000, C12Q0001680600, C12Q0001040000, G01N0021780000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A device (100) for phenotypic detection of antimicrobial resistance to drugs using paper microfluidics is provided. The device includes a top layer (120) with a plurality of reaction zones (122). The top layer receives a predetermined volume of a sample liquid (126) composed of pathogens (128). The top layer concentrates the pathogens by pulling the sample liquid through the reaction zones (122) into an absorber (134) positioned beneath the top layer via a driving force. The device includes a lid configured with a plurality of reagent storage zones composed of a mixture of antibiotics, culture media, and colorimetric dyes. The top layer and the lid allows the pathogens to incubate for a predefined time and temperature thereby treating the pathogens to the antibiotics and detection reagents to yield a colorimetric output (132). The colorimetric output signifies if the sample liquid exhibits resistance against the antibiotics. FIG. 1

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2022

(21) Application No.202241018750 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN IMPROVED PROCESS FOR PREPARATION OF TAUROURSODEOXYCHOLIC ACID

(51) International classification :A61K0031575000, C07H0019173000, G16C0020800000, C01F0007000000, G11B0007253800

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An improved process for the preparation of Tauroursodeoxycholic Acid having the chemical structural Formula I.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : Smart Navigation System

(51) International classification :G01C0021360000, A61B0034200000, A61B0090000000, G01C0021340000, G08G0001096800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT SMART NAVIGATION SYSTEM Aspects of the present disclosure are directed to a smart navigation system. According to an aspect, at a processing device, information related to a source and a destination is received, a polyline is determined, navigation content is prepared, and the navigation content is caused to be transmitted to a dedicated display device. The navigation content includes maneuver at the nearest next location and distance to the nearest next location. According to another aspect, at a dedicated display device, navigation content containing data related to maneuver and distance is received from a processing device, where the processing device is a separate device communicatively coupled to the dedicated display device. Navigation graphics are determined based on the navigation content received, where the determining contains retrieving the navigation graphics from a memory associated with the dedicated display device. Navigation instructions containing the navigation graphics are displayed. Figures 2 and 4

No. of Pages : 37 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/05/2022

(21) Application No.202241030562 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A BATTERY MODULE AND A METHOD OF ASSEMBLING THE BATTERY MODULE

(51) International classification	:H01M0002100000, H01M0010040000, H01M0002200000, H01M0010613000, H01M0002020000	(71)Name of Applicant : 1)EXPONENT ENERGY PRIVATE LIMITED Address of Applicant :No.76/2, Site No.16, Khatha No.69, Singasandra Village, Bengaluru (Bangalore) Urban, BENGALURU, KARNATAKA 560068 BENGALURU ----- -----
(86) International Application No	:PCT//	Name of Applicant : NA
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(57) Abstract :

Abstract A BATTERY MODULE AND A METHOD OF ASSEMBLING THE BATTERY MODULE The present invention discloses a battery module (100). The battery module (100) may comprise a plurality of cells (103), a plurality of conditioning assembly (101, 104), a base plate (102), plurality of bus bars (105) and a plurality of spacers (106). A minor side (103a) of a cell assembly attached with the condition assembly (101, 104) via the spacers (106). A bottom side (103b) of the cell assembly attached with the base plate (102) via spacers (106). The spacer (106) may create an equal tolerance spacing between cell assembly and the conditioning assembly (101, 104) and the base plate (102), through a thermally conductive, electrically insulative, and vibration resistive adhesive. The equal tolerance spacing create an equal thermal conduction, equal electrical insulation, and equal vibration resistance between cell assembly, conditioning assembly (101, 104) and base plate (102) to enable the uniform rigid and stiff battery module (100). [To be published with Fig 1a]

No. of Pages : 23 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031678 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A TURNING CUTTER DESIGN FOR ENHANCING THE EFFICIENCY OF CUTTING PROCESSES

(51) International classification :B23C0005200000, B23C0005100000, B23B0027000000, B23C0005000000, B23B0001000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A TURNING CUTTER DESIGN FOR ENHANCING THE EFFICIENCY OF CUTTING PROCESSES The present invention relates to the fabrication of a novel turning cutter tool design having a smaller nose radius, designated side and end cutting edge angles, and surface texture on the insert rake face. The said tool geometry features are incorporated into the design along with a mechanochemical (MC) effect to reduce cutting forces and energy consumed. It improves surface quality, increases tool life, and achieves increased throughput during the cutting of metallic materials. The significant potential for reduced power consumption makes this cutter suitable for multipoint milling as well as precision cutters that will greatly facilitate frugal manufacturing to account for sustainability in machining operations. Most Illustrative drawing: Fig.6

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241041924 A

(19) INDIA

(22) Date of filing of Application :21/07/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A WIRELESS INTELLIGENT REMOTE INSPECTION DEVICE FOR PRESSURIZED SYSTEMS

(51) International classification :A61B0005000000, G01L0019080000, H04W0004800000, H01M0010420000, A61B0008080000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A WIRELESS INTELLIGENT REMOTE INSPECTION DEVICE FOR PRESSURIZED SYSTEM The present invention provides a wireless intelligent remote inspection device (1) for pressurized systems, comprising of, a housing (2), at least one transmitter (3), at least one receiver (4), at least one connector, a plurality of sensor (5), at least one battery unit (6); and at least one cover (7). The housing (2) encloses said transmitter (3), receiver (4), plurality of sensor (5), battery unit (6) along with a near field communication module (8), and a LED indicator (9). The near field communication module (8) is configured to transfer said set of parameters to a remote server via a wireless mode. The wireless intelligent remote inspection device (1) is connected to an additional IoT module via a wireless sensor network for monitoring, transferring said set of parameters to said remote server (11) for remote inspection. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241041925 A

(19) INDIA

(22) Date of filing of Application :21/07/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPOSITE BODY BASED FIRE EXTINGUISHER WITH INTELLIGENT WIRELESS REPORTING SYSTEM

(51) International classification :G08C0017020000, H04Q0009000000, G01P0005000000, G06Q0020100000, G06Q0020200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A COMPOSITE BODY BASED FIRE EXTINGUISHER WITH INTELLIGENT WIRELESS REPORTING SYSTEM

The present invention relates to a composite body based fire extinguisher with intelligent wireless reporting system (100), comprising, a fire extinguisher (1), a reporting module (2), wherein said fire extinguisher (1) includes a container body (3), a base (4) and an operating lever (5), said container body (3) have an aramid fibre material that is woven on an inner side of the container body (3) which increases strength and the container body (3) is a density polyethylene composite body with a UV protection feature, said reporting module (2) includes a housing (6), at least one transmitter (7), at least one receiver (8), at least one connector, a plurality of sensor (9); at least one battery unit (10); and at least one cover (11) for real time or periodic monitoring of parameters. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241043092 A

(19) INDIA

(22) Date of filing of Application :27/07/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : MOUNTING MECHANISM TO HOLD A CLEANING DEVICE ON AN UNDERWATER CARRIER

(51) International classification :H02K0007060000, B63B0035440000, H05K0007140000, H02S0020320000, H01M0008247500

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a mounting mechanism for mounting hull cleaning devices on an underwater carrier. Accordingly, the mounting mechanism (100) comprises a frame (102) formed of an assembly of tubular channels, configured with a plurality of buoyancy means (104) on the frame (102), a shaft assembly (108) having a hollow shaft (110) mounted on the frame (102) through a plurality of bearing housings (112) and bearings (114), a hinge (116) connecting the cleaning device (200) to the frame (102) through the rotatable hollow shaft (110) held in a bearing (114), and a mounting plate (118) coupled at each end of the frame (102) to mount the frame (102) on the underwater carrier (300). The mounting mechanism (100) is constructed to have the center of gravity and center of buoyancy at the same point. Figure 1 (for publication)

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241044567 A

(19) INDIA

(22) Date of filing of Application :04/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MEN'S UNDERGARMENT WITH A GENITAL POUCH

(51) International classification :A41B0009020000, A41B0009120000, A41B0009000000, A61H0015000000, A41D0007000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a men's undergarment (100) with a genital pouch (102). More particularly, a men's undergarment with a genital pouch (102) for comfortable placement of men's genitals. The men's undergarment (100) comprises of a stretchable waistband (104), a comfortable fabric fastened to the waistband (104) to form the front (106), rear (108) and side portions (110) of the undergarment with two leg openings (112a and 112b). The genital pouch comprises of three-dimensionally formed left (114) and right-side (116) walls that unite at the mid-lower section (118) of the undergarment (100) to form a pouch (102) which in turn facilitates the placement of genitals. The genital pouch (102) is made from a soft mesh and a netted panel which prevents it from deforming when worn and as a result ensures defined space for the genitals.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/09/2022

(21) Application No.202241052284 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MOUNTING STRUCTURE FOR AN INSPECTION VEHICLE

(51) International classification :G01N0029220000, G01N0021880000, G01D0011300000, B60R0011040000, B62B0003020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a mounting structure (110) for an inspection vehicle (100) comprising: at least a linking member (120L, 120R); a plurality of sensor mounting members (130) mounted on at least a base member (140); at least a wheeled carrier structure (170a, 170b) having a plurality of wheels (160L, 160R, 165L, 165R) for contacting at least said surface of inspection; and at least a resilient member (180) to impart a dynamic rotation of at least said linking member (120L, 120R), at least said wheeled carrier structure (170a, 170b) and at least said base member (140) for ensuring passive self-alignment of each aligned sensor (150) to at least said surface of inspection in a stationary start stage and a real time movement stage of said inspection vehicle. To be published: Figure 1

No. of Pages : 23 No. of Claims : 12

(54) Title of the invention : A miniature device for wedge braking system using a single wedge

<p>(51) International classification :B62L0003020000, B60T0011040000, H01H0015000000, B60T0011060000, B60T0007100000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Suprajit Engineering Limited Address of Applicant :# 100, Bommasandra industrial area, Bangalore- 560099, Karnataka, India Bangalore ----- - Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Nitin Srinivasan Address of Applicant :Suprajit Engineering Limited, No. 100, Bommasandra industrial area, Bangalore 560099 Karnataka, India Bangalore ----- 2)Mr. Deepak Yogesh Address of Applicant :Suprajit Engineering Limited, No. 100, Bommasandra industrial area, Bangalore 560099 Karnataka, India Bangalore ----- 3)Mr. Ashutosh Rai Address of Applicant :Suprajit Engineering Limited, No. 100, Bommasandra industrial area, Bangalore 560099 Karnataka, India Bangalore -----</p>
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(57) Abstract :

A miniature device for wedge braking system using a single wedge [0027] The device (100) comprises a first slider (101) having first slot (102), wherein the end fitment of rear brake lever cable is mounted. The device (100) includes second slider (103) with an external angled surface having second slot (109), wherein the end fitment of a rear wheel brake cable is mounted. The device (100) further comprises of sliding wedge (105) with an external angled surface and floating slider (104) with an internal angled surface having a third slot (108). The internal angled surfaced of the floating slider (104) interacts with the sliding wedge (105) to control the movement of the floating slider (104). The device (100) further comprises a housing (107) having plurality of sliding grooves (106) and (112), wherein first slider (101), second slider (103) and floating slider (104) are fitted on the grooves. (Figure 1)

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : AN ULTRAVIOLET RESISTANT HIGH DENSITY POLYETHYLENE COMPOSITE BODY BASED LIGHT WEIGHT FIRE EXTINGUISHER

(51) International classification :C08L0023060000, A62C0013760000, A62C0013780000, F01D0005280000, A61L0002100000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT AN ULTRAVIOLET RESISTANT HIGH DENSITY POLYETHYLENE COMPOSITE BODY BASED LIGHT WEIGHT FIRE EXTINGUISHER The present invention provides provides an ultraviolet resistant high density polyethylene composite body based light weight fire extinguisher (1) comprising of a head assembly, container body (2), a base (3), an operating lever (4), wherein the container body (2) have an aramid fibre material (5) that is woven on an inner side of the container body (2) for increasing strength of the ultraviolet resistant high density polyethylene composite body based light weight fire extinguisher (1) and the container body (2) is a density polyethylene composite body that have an ultraviolet (UV) ray resistant coating which prevents corrosion, rust and fading of colour. The head assembly is equipped with a leak proof pressure valve (6) to facilitate in installation or replacement of one or more components without discharging a pressure within said ultraviolet resistant high-density polyethylene composite body-based light weight fire extinguisher (1). Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/11/2022

(21) Application No.202241063291 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTI-MICROBIAL PEPTIDE FROM *Penaeus vannamei* FOR THE TREATMENT OF VIBRIOSIS

(51) International classification :A61K0039000000, A61K0038000000, C07K0014470000, A23K0050800000, C07K0014435000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present invention relates to isolation and characterization of antimicrobial peptide from Shrimp *Penaeus vannamei* for the treatment of vibriosis. an isolated antimicrobial peptide (CIBApep) for treatment of Vibriosis in shrimp having a peptide of 315bp length having amino acid sequence of 104 long residues. FIGURE 2.

No. of Pages : 18 No. of Claims : 8

(54) Title of the invention : A MICROBIAL STARTER FORMULATION FOR BIOFLOC BASED AQUACULTURE

(51) International classification :C12N0001200000, C12R0001010000, C02F0003340000, C12R0001070000, A61K0035740000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT The present invention 5 relates to microbial consortia and methods of use of the microbes included in the consortia, particularly for biofloc generation and maintenance of the Carbon/Nitrogen ratio. The bacterial isolates present in the consortium, excludes the pathogenic bacterial population, thus helping in a better environment for the culture animals (shrimp). The composition of the present 10 disclosure includes microbial species selected from Cobetia marina, Bacillus aquamaris, Exiguobacterium profundum, Bacillus thuringiensis, Marinilactibacillus piezotolerans, Novosphingobium sp., Bacillus tequilensis, Bacillus subtilis, Vacillus marisflavi, Bacillus sp., Virgibacillus, Bacillus licheniformis, Lysinibacillus, Oceanobacillus, Bacillus cereus, Bacillus megaterium. 15 FIGURE 1.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341020611 A

(19) INDIA

(22) Date of filing of Application :23/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN AIR SHOCK ABSORBER WITH DYNAMIC VALVE FOR AUTOMOBILES

(51) International classification :B60G 170520, F16F 093200, F16F 093480, F16J 092800, F16J 155600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

An air shock absorber with a dynamic valve (102) is to ensure proper shock absorption even at high speed of vehicles at the same time provide efficient dampening that increases the stability of the automobile. This air shock absorber is designed to have very less number of parts when compared to a conventional hydraulic shock absorber or a conventional air shock absorber with pressurizes air columns.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341021797 A

(19) INDIA

(22) Date of filing of Application :27/03/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DEVELOPMENT OF VISIBLE WATER LEVEL INDICATOR FOR WATER TANK

(51) International classification :A01G 270000, A47L 114000, E03D 013300, G01F 230200, G01N 150800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A Visible Water Level Indicator in water tank is a device placed on the wall of the water tank characterized with the provision of twin pulleys (7 and 8 as shown in Fig 02) with a floater (14) inside the water tank connected through a rope (13) in one part of the twin pulley and an indicator (16) is connected through an identical rope (15) in another part of the twin pulley and placed outside the water tank and the twin pulley is placed on a rod (6) connected with two tempered coils (1) on both the ends and the coils wind and unwind as per the water level inside the water tank and the floater inside the tank and the indicator outside the tank move up and down to show / indicate the exact water level inside the water tank. A buzzer / alarm / calling device (4) is also provided on the top of the tank and positioned above the indicator (16) and once the water level reaches its maximum level, the indicator moves up and touches the buzzer button and sounds alarm.

No. of Pages : 7 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341035009 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : MULTI FUNCTION FOLDABLE HOLDER DESIGN FOR HAIR DRYER

(51) International classification :A45D 20/10, A45D 20/12
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A foldable holder (100) for hair dryer comprising: i) a hair dryer portion (101) ii) a holder portion (102)

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231044693 A

(19) INDIA

(22) Date of filing of Application :04/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHODOLOGY TO PRODUCE LOW-COST, LOW-POWERED BROADBAND CONTINUUM SOURCE USING TELECOM GRADE OPTICAL FIBER SYSTEM.

<p>(51) International classification :G02F0001365000, H01S0003067000, H01S0003000000, G02F0001350000, G02B0006020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR Address of Applicant :Sponsored Research & Industrial consultancy, Indian Institute of Technology Kharagpur; West Bengal India 721302 Kharagpur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mohd Rehan Address of Applicant :Postdoctoral Research Associate, Department of Electronics and Electrical Communication Engineering, IIT Kharagpur, West Bengal, India. 721302 Kharagpur -----</p> <p>2)Rudranil Chowdhury Address of Applicant :Junior Research Fellow, Department of Electronics and Electrical Communication Engineering, IIT Kharagpur, West Bengal India 721302 Kharagpur -----</p> <p>----</p> <p>3)Shailendra Kumar Varshney Address of Applicant :Associate Professor, Department of Electronics and Electrical Communication Engineering, IIT Kharagpur, West Bengal, India. 721302 Kharagpur -----</p> <p>-----</p>
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(57) Abstract :

The present invention provides a cascaded fiber-based system for operating as a broadband continuum source comprising atleast two non-zero dispersion shifted fibers (NZDSF) and atleast one graded-index fiber (GRINF), wherein the GRINF at its two ends is spliced with said NZDSFs, while input end of input side of said NZDSFs is operatively connected to a laser source to provide broadband continuum output at output end of output side of said NZDSFs while pumping with said laser source at low power.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231061045 A

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : Landslide Alerting System for Hilly Areas' Drivers

(51) International classification :E02D0017200000, G08B0021100000, G08B0021040000, A61K0036575000, F02D0031000000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This Invention is about such a device which will alert the driver before the landslide or rockslide. So that he could run away to save his life. With the help of this device, the driver of vehicles in hilly areas can get information few minutes or few seconds before about the situation before the landslide, such as a stone sliding and falling the rocks on their vehicle, also the driver can see the information immediately on the screen from the transmitter and receiver installed in the sensor of the device. Hence it is possible that we can save the lives of the driver and the passengers sitting in the vehicles.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331031183 A

(19) INDIA

(22) Date of filing of Application :02/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR MALWARE DETECTION ON MOBILE PLATFORM BY OPCODE FEATURES ANALYSIS

		(71)Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA Address of Applicant :Patna-800005, Bihar, India Patna ----- ----- Name of Applicant : NA Address of Applicant : NA
(51) International classification	:G06F17/30	(72)Name of Inventor : 1)JYOTI PRAKASH SINGH Address of Applicant :Department of Computer Science and Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna- 800005, Bihar, India Patna ----- 2)ABHISHEK ANAND Address of Applicant :Department of Computer Science and Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna- 800005, Bihar, India Patna -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT "A SYSTEM AND METHOD FOR MALWARE DETECTION ON MOBILE PLATFORM BY OPCODE FEATURES ANALYSIS" The present invention provides a system (1000) and method for malware detection on mobile platform by opcode features analysis to secure mobile platform and reduce bulkiness of the system (1000), comprising a data acquisition unit (100), a feature extraction module (200), and a processor (300) wherein said data acquisition unit (100) extracts a plurality of files from a decompiled mobile package kit present in a mobile platform and concatenate said plurality of files into a concatenated file, said feature extraction module (200) searches a plurality of opcodes (202) in said concatenated file using an opcode list and creates a feature vector table for counting said plurality of opcodes (202) and said processor (300) analyses said feature vector table and produce a normalized feature table to classify whether said files are malware file or benign file via a classifier. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331033104 A

(19) INDIA

(22) Date of filing of Application :10/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR POINT OF INTERACTION BASED LOCALIZATION-AS-A-SERVICE IN AN INTERNET-OF-UNDERWATER THINGS NETWORK

(51) International classification :H04B13/02
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT "A SYSTEM AND METHOD FOR POINT OF INTERACTION BASED LOCALIZATION-AS-A-SERVICE IN AN INTERNET-OF-UNDERWATER THINGS NETWORK" A system for point of interaction based localization-as-a-service in an internet-of-underwater things network comprising an underwater wireless sensor network (1) for sensing of an underwater environment; an autonomous underwater vehicle (4); and a surface device (5) wherein said underwater wireless sensor network (1) includes a plurality of anchor nodes (2), non-anchor nodes (3), captive nodes (8), orphan nodes (9) and non-malicious anchor nodes (6) lying in proximity of a plurality of malicious anchor node (7) for reconfiguring on a demand to take over localization task of said malicious anchor node (7) to restore a normal functioning of said underwater sensor network (1); said plurality of anchor nodes (2) are provided for beaconing the location coordinates of said non-anchor nodes (3) lying in proximity to said anchor nodes (2); and said captive nodes (8) serves said orphan sensor nodes (9) by replacing said malicious anchor node (7) by themselves. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331034067 A

(19) INDIA

(22) Date of filing of Application :15/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MACHINE LEARNING BASED HARMONIC RESONANCE DETECTION DEVICE FOR POWER DISTRIBUTION SYSTEM

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(51) International classification	:G01R23/06	Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)VIMLESH VERMA Address of Applicant :Department of Electrical Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna- 800005, Bihar, India Patna ----- 2)SHIVANGNI SHARMA Address of Applicant :Department of Electrical Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna- 800005, Bihar, India Patna -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT "A MACHINE LEARNING BASED HARMONIC RESONANCE DETECTION DEVICE FOR POWER DISTRIBUTION SYSTEM" The present invention provides a machine learning based harmonic resonance detection device (1) for power distribution system, comprise of an insulated gate bipolar transistor (IGBT) based voltage source converter (VSC) (4) that is configured to inject a voltage harmonics and damp resonance, a voltage and current sensors (2) include a load current to detect harmonics injected into a load and a point of common coupling voltage sensor for synchronization, resonance detection and a filter current estimation, said DC voltage capacitor (5) is for maintaining a constant direct current link voltage across said voltage source converter with reduce ripple and for protection from overvoltage and said device include a data processing unit that works on a machine learning protocol for non- invasive classification of resonance in terms of frequency range from 0 to 2.4 kHz. Figure 1(a) on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 43 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331035234 A

(19) INDIA

(22) Date of filing of Application :19/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : Process for selective recovery of rare earth elements (REEs) from spent neodymium iron boron (NdFeB) magnets.

<p>(51) International classification :C22B3/06</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR</p> <p>Address of Applicant :Sponsored Research & Industrial Consultancy, Indian Institute of Technology Kharagpur Kharagpur West Bengal India 721302 Kharagpur -----</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr Chenna Rao Borra</p> <p>Address of Applicant :Assistant professor, Department of Metallurgical and Materials Engineering, IIT Kharagpur Kharagpur West Bengal India 721302 Kharagpur -----</p> <p>---</p> <p>2)Dr Sumantra Mandal</p> <p>Address of Applicant :Associate professor, Department of Metallurgical and Materials Engineering, IIT Kharagpur Kharagpur West Bengal India 721302 Kharagpur -----</p> <p>---</p> <p>3)Borra Venkata Lakshmi</p> <p>Address of Applicant :Research scholar, Department of Metallurgical and Materials Engineering, IIT Kharagpur Kharagpur West Bengal India 721302 Kharagpur -----</p> <p>---</p>
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(57) Abstract :

ABSTRACT Title of the invention: Process for selective recovery of rare earth elements (REEs) from spent neodymium iron boron (NdFeB) magnets. A process is provided for selective recovery of rare earth elements (REEs) from spent neodymium iron boron (NdFeB) magnets comprising the steps of (a) providing magnet powder post demagnetizing and pulverizing/milling of neodymium iron boron (NdFeB) magnets for aeration leaching; (b) performing aeration leaching of said magnetic powder for dissolution of REEs including as rare earth salts and completely precipitating iron out as iron oxide and/or hydroxide by-product based on oxidation of Fe²⁺ to Fe³⁺ during said aeration leaching and thus generating a mother liquor containing the rare earth salts that is followed by (c) reacting the filtered said mother liquor with oxalic acid to precipitate rare earth elements as rare earth oxalate for further calcination and obtaining rare earth oxide for recovery of rare earth elements (REEs) therefrom, which process is advantageously low in acid consumption, involves low capital cost, low reagent consumption and at the same time enables iron oxide and/or hydroxide as by-product. Figure 1

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331035246 A

(19) INDIA

(22) Date of filing of Application :19/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A FIELD EFFECT TRANSISTOR BASED BIOSENSOR DEVICE FOR DETECTION OF CANCER CELL

(51) International classification :G08B1/08
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT "A FIELD EFFECT TRANSISTOR BASED BIOSENSOR DEVICE FOR DETECTION OF CANCER CELL" The present invention relates to a field effect transistor-based biosensor device for detection of the cancer cell comprising a source extended single or double gate tunnel field effect transistor (14), a microwave generator (15), and a semiconductor parameter analyzer (16), wherein said source extended double gate tunnel field effect transistor (14) includes a top gate electrode (1), HfO₂ oxide layer (2), a SiO₂ oxide layer (3), a nano-cavity (4), a drain electrode (5), a drain region (6), a source electrode (7), a source region (8), a channel region (9), a SiGe layer (10), a SiO₂ oxide layer (11), a substrate (12) and a bottom gate electrode (13). The semiconductor parameter analyzer (16) is provided for measuring the drain current that is produced in said source extended tunnel field effect transistor (14) to identify whether said cell is a cancerous or a healthy cell. Figure 1(a)-1(b) on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331035247 A

(19) INDIA

(22) Date of filing of Application :19/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : POLYCYCLIC PYRROLE FUSED ACRIDINE DERIVATIVES AND A METHOD OF SYNTHESIS THEREOF

(51) International classification :C07D219/10
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT "POLYCYCLIC PYRROLE FUSED ACRIDINE DERIVATIVES AND A METHOD OF SYNTHESIS THEREOF"

The present invention relates to polycyclic pyrrole fused acridine derivatives and a method of synthesis thereof. The polycyclic heterocyclic intermediate and derivative of the present invention are synthesized from a simple and cost-effective method from readily available starting materials in high yields and fully characterized by spectroscopic techniques. This method is also applicable in gram scale synthesis. The present invention may find application in medicinal chemistry and pharmaceutical industry. Figure 1 on sheet no.1 of the drawings may accompany the abstract when published.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331035248 A

(19) INDIA

(22) Date of filing of Application :19/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A DEVICE FOR AUTOMATED FAILURE ESTIMATION OF THE INTERNET SERVICE INFRASTRUCTURE

		(71)Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA Address of Applicant :Patna-800005, Bihar, India Patna ----- ----- Name of Applicant : NA Address of Applicant : NA
(51) International classification	:G06F8/34	(72)Name of Inventor : 1)SANTOSH PRASAD Address of Applicant :Department of Computer Science and Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna- 800005, Bihar, India Patna ----- 2)SUDDHASIL DE Address of Applicant :Department of Computer Science and Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna- 800005, Bihar, India Patna -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT "A DEVICE FOR AUTOMATED FAILURE ESTIMATION OF THE INTERNET SERVICE INFRASTRUCTURE" A device for automated failure estimation of the Internet service infrastructure comprising an unmanned aerial vehicle (1), a computational unit (2), obstacle detector sensors (9), a cellular board (10), a global positioning system (GPS) board (11), and a power source (12), wherein said computational unit (2) is configured inside said unmanned aerial vehicle (1) and includes a processing unit (3), a primary storage unit (4), a secondary storage unit (5), a communication unit (6), general purpose input/output interface pins (7) and a connector (8); to estimate the failure of the Internet service infrastructure, said obstacle detector sensors (9), said cellular board (10), and said global positioning system (GPS) board (11) are connected to said computational unit (2) by said general purpose input/output interface pins (7) provided therein said computational unit (2). Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331035489 A

(19) INDIA

(22) Date of filing of Application :22/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : System and Method for Extracting Atmospheric Moisture

		(71)Name of Applicant : 1)Indian Institute of Technology, Patna Address of Applicant :Bihta, Patna Bihar INDIA 801106 Patna ----- Name of Applicant : NA Address of Applicant : NA
(51) International classification	:B01D46/00	(72)Name of Inventor : 1)Abhash Shukla Address of Applicant :D – 204, Kalam Hostel IIT Patna, Patna, Bihar India 801106 Patna -----
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System and Method for Extracting Atmospheric Moisture A system for recovering water from atmospheric air is described. The system includes a blower for channeling atmospheric air into the system to provide an air stream, a humidifier for adding water to the air stream to provide a humidified air stream, a collection tank to provide a predetermined amount of water to the humidifier, a water recovery unit for cooling the humidified air stream below the dew point to recover water from the humidified air stream, and provide a dehumidified air stream, and a collection tank to receive water from the water recovery unit. Also described is a method of recovering water from atmospheric air. Figure 1 may accompany the abstract.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331035860 A

(19) INDIA

(22) Date of filing of Application :24/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SMART ASSEMBLY LINE CONTROL SYSTEM

(51) International classification :G01M17/04
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT "A SMART ASSEMBLY LINE CONTROL SYSTEM" The present invention provides a smart assembly line control system(10), comprising an infeed station (1), a laser marking unit (2), a vision inspection module (3), and a product packing station (6) wherein: the smart assembly line control system (10) includes a processor (4) and a robotic device (5), the processor (4) is for determining and classifying quality of the product into low category and high category by analyzing the video through pattern, optical character and logic recognition mechanisms and processor (4) is configured to alert the operator in case the quality is low category, thereby ensuring a highly accurate and an efficient product sorting process; the robotic device (5) is for picking high category product upon the determination and classification the plurality of product; and the product packing station (6) include a flow wrap machine controlled by the processor (4) for pouch packaging for the high category product. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/05/2023

(21) Application No.202331036029 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : DHURVA, THE AI POWERED CAREER GUIDANCE BOT

(51) International classification :G06T19/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

DHURVA, THE AI POWERED CAREER GUIDANCE BOT is designed to help students and professionals to choose the right career path. The platform is user-friendly and features voice recognition for direct interaction with the chatbot, which saves users time and helps solve their problems easily. It uses artificial intelligence to analyze data sets and provide users with the correct trajectories to achieve their career goals. The platform will display multiple options related to the analyzed field and their details, along with suggestions to achieve the respective goals. If the user is not satisfied with the output messages, they can contact the platform team to connect with a required counselor. The platform is engaging and uses images and graphics to convey information. The aim of this platform is to assist students in deciding their career goals and providing them with all the required details to make informed decisions.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : ATTENTION EVALUATION OF PARTICIPANTS IN AN ONLINE CLASS OR A MEETING OVER VIDEO CONFERENCE THROUGH FACIAL GESTURE SCORES (FGS)

<p>(51) International classification :G06F16/903</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)AMITY UNIVERSITY, PATNA</p> <p>Address of Applicant :Near Rupaspur Police Station, Rupaspur, Bailey Road, Patna, BIHAR, INDIA – 834001 -----</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. LALITA KUMARI</p> <p>Address of Applicant :Amity University, Patna at Near Rupaspur Police Station, Rupaspur, Bailey Road, Patna, BIHAR, INDIA – 834001 Patna -----</p> <p>2)DR. CHETNA PRITI</p> <p>Address of Applicant :Amity University, Patna at Near Rupaspur Police Station, Rupaspur, Bailey Road, Patna, BIHAR, INDIA – 834001 Patna -----</p>
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(57) Abstract :

ABSTRACT ATTENTION EVALUATION OF PARTICIPANTS IN AN ONLINE CLASS OR A MEETING OVER VIDEO CONFERENCE THROUGH FACIAL GESTURES SCORES (FGS) COMPUTATION is a state-of-the-art technology that enables efficient monitoring of attentiveness of participants in an online class or meeting using object tracking and Facial Gesture Score (FGS). The invention improves attentiveness of participants. Also, it is easy to know the total percentage of student who is taking interest in a class by clustering participants based on similar facial gesture score. Online classes and virtual meetings are increasing rapidly. Teachers and parents feel lack of concentration among students in the online classes. Monitoring attention in virtual class/meeting is very difficult as many body gesture parameters are there to watch carefully with respect to each participant. Therefore, computer vision based automated system is required to track participants and annotate the computed attention index in real time video. With help of this system overall quality of virtual class/meeting is improved as every participant starts giving more attention whenever it displays the attention index low. The proposed attention parameters computation algorithm is based on body/facial gesture of attendee and web browsing activity mining. To allow students to continue their learning in any situation, it is necessary to focus on learning management systems which is the medium that allows students to maintain interaction with their institutions. Integration of artificial intelligence, data analysis, and computer vision is proposed here for improvement of online learning model. Students' attention towards the online class is tracked and being evaluated throughout the class period with the help of artificial intelligence, machine learning, computer vision, and NLP. This system not only provides attention score of each participant, but also gives automatically find out the topic of lecture and provide link to online available study content on the topic of lecture. FIG.

1

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036031 A

(19) INDIA

(22) Date of filing of Application :24/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : VIBRATORY FRAME ENERGY HARVESTING SYSTEM FOR STEPS

(51) International classification :B07B1/28
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

VIBRATORY FRAME ENERGY HARVESTING SYSTEM FOR STEPS, which converts mechanical stress into electrical energy.

The present invention can be installed on stairs and consists of a vibratory frame made of steel profiles, a load amplifier, a piezoelectric material, a rubber cushion, a spring-based mechanism, and an energy storage mechanism. The system generates alternating current (AC) with a frequency that corresponds to the velocity of the vibrations produced. The energy storage mechanism allows excess electrical energy to be stored for later use. The hardware construction involves assembling the steel profiles in basic modules to create the Vibratory Frame, which is embedded in a solid block of suitable dimensions. The load amplifier, piezoelectric material, and rubber cushion are installed on the movable shaft supported by the spring-based mechanism to generate the required stress for the system. The entire system is designed to be highly reliable and efficient, making it suitable for use in a variety of settings. The Vibratory Frame Energy Harvesting System for Steps has the potential to provide an efficient and sustainable source of energy.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036080 A

(19) INDIA

(22) Date of filing of Application :24/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : Antibiotic pharmaceutical composition with Niflumic acid as bio-enhancer for antibiotics against bacteria

(51) International classification :A61P29/00
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to pharmaceutical composition with Niflumic acid as bioactive enhancer for broad-spectrum antibiotics against bacterial growth, the present invention has direct implication in reducing the dosage of antibiotics against bacterial infections.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036110 A

(19) INDIA

(22) Date of filing of Application :25/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : FOREARM WOUND PROTECTOR-CUM-HEALER

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(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In man and domestic animals, scarring in the skin after trauma, surgery, burn or sports injury is a major medical problem, often resulting in adverse aesthetics, loss of function, restriction of tissue movement and/or growth and adverse psychological effects. Current treatments are empirical, unreliable and unpredictable: there are no prescription drugs for the prevention or treatment of dermal scarring. Skin wounds on early mammalian embryos heal perfectly with no scars whereas wounds to adult mammals scar. We investigated the cellular and molecular differences between scar-free healing in embryonic wounds and scar-forming healing in adult wounds. Important differences include the inflammatory response, which in embryonic wounds consists of lower numbers of less differentiated inflammatory cells. This, together with high levels of morphogenetic molecules involved in skin growth and morphogenesis, means that the growth factor profile in a healing embryonic wound is very different from that in an adult wound.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036205 A

(19) INDIA

(22) Date of filing of Application :25/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A CROSS-LINKED POLYMERIC NANOCOMPOSITE FOR CANCER CELLSELECTIVE DELIVERY OF ANTI-CANCER AGENT PARTHENOLIDE

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(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is a pH responsive cross-linked polymeric nanocomposite comprising of a cross-linked polymer as a nanocarrier for at least one anti-cancer agent. The cross-linked polymeric nanocomposite is poly β -thioester and anti-cancer agent is parthenolide. Further the present invention also provides a simple method of production of pH responsive cross-linked polymeric nanocomposite for drug delivery applications. The polymeric nanocomposite showed surface charge modulation at tumor extracellular relevant pH and thereby selectively delivers parthenolide to breast cancer cells (MCF-7 and MDAMB-231) over normal healthy cells (PBMC). The polymeric nano-composite selectively reduces proliferation, arrests cell cycle progression, inhibits breast cancer cell migration and invasion, and targets cancer-initiating cells.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036388 A

(19) INDIA

(22) Date of filing of Application :25/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SECURITY DEVICE TO PREVENT THEFT OF COMPUTER ACCESSORIES

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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT "A SECURITY DEVICE TO PREVENT THEFT OF COMPUTER ACCESSORIES" A security device to prevent theft of computer accessories (100), comprising a monitoring module and a power source (1) wherein the security device is connected to a plurality of desktop computer (8) for keeping a track of a set of computer accessories (100); the monitoring module include a transformer (2), a rectifier (3), a capacitor (4), a thyristor (5), a buzzer (6), a relay module (7) that assists in the keeping a track of a set of computer accessories (100); the transformer (2) is connected to the rectifier (3) and the rectifier (3) produces a direct current as output and is connected in parallel to the capacitor (4) which is grounded; the capacitor (4) is connected to the thyristor (5) and the thyristor (5) is connected to a buzzer (6) which gets activated after the thyristor (5) is set in switch on mode. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 19 No. of Claims : 11

(54) Title of the invention : IMAGE PROCESSING AND FACE DETECTION ANALYSIS ON FACE VERIFICATION AND THE PERFORMANCE BASED ON THE AGE STAGES

<p>(51) International classification :G06T7/13 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DREAM INSTITUTE OF TECHNOLOGY Address of Applicant :Thakupukur Bakhrahat Road, Samali, Kolkata - 700104, West Bengal, India Kolkata ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Dipankar Sarkar Address of Applicant :Professor and Principal, Department of Electrical Engineering, Dream Institute of Technology, Thakupukur Bakhrahat Road, Samali, Kolkata - 700104, West Bengal, India Kolkata ----- 2)Dr. Anindita Mukherjee Address of Applicant :Assistant Professor Department of Computer Science and Engineering, Dream Institute of Technology, Thakupukur Bakhrahat Road, Samali, Kolkata - 700104, West Bengal, India Kolkata -----</p>
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(57) Abstract :

Face recognition is critical to social interaction and it has received extensive attention from researchers using a range of methods. Herein, we review key findings regarding the cognitive basis, neural basis, neuropsychological impairments, and development of face recognition. These studies indicate that face recognition involves a number of separate processes, including some processes that are specialized for faces. Cognitive experiments demonstrate that faces are represented in a more holistic manner than other objects which produces precise representations of both the features and their configuration. This paper focuses on the development of image processing and face detection on face verification system by improving the image quality. The research use computer simulation, comparative studies, and analytical studies. Damage or developmental failures affecting neural areas involved with face recognition can lead to a variety of face recognition deficits, most notably prosopagnosia. Finally, we outline the development of face recognition abilities.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2023

(21) Application No.202331036453 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : HYDRO-LIFE BISECTOR

(51) International classification :B01D29/03
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT HYDRO-LIFE BISECTOR relates to a water treatment unit that can effectively clean polluted water, replenish groundwater, and fulfill the water demand as per population needs. The unit consists of a fractional separator, different treatment processes, reverse osmosis filtration, and a mineral enhancer. The fractional separator removes visible weeds, beads, and other particles from the water, and the treatment process eliminates harmful particles using activated carbon, charcoal, and chlorine. Reverse osmosis filtration removes odor, taste, and color from the water. The mineral enhancer is designed to add minerals to the water to solve deficiencies in the area. The Hydro-Life Bisector can be set up near the sea or a large water source to cut down on per-liter costs and increase efficiency. It can be operated by a single person and can help reduce the direct dependency on groundwater, which is crucial in areas facing water scarcity. FIG. 1

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036454 A

(19) INDIA

(22) Date of filing of Application :26/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN APPARATUS AND METHOD FOR CURING CONCRETE STRUCTURAL ELEMENTS

(51) International classification :E04C5/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN APPARATUS AND METHOD FOR CURING CONCRETE STRUCTURAL ELEMENTS, with auto-refill mechanism of the curing vessel for maintaining constant Humidity is a state-of-the-art device that enables efficient curing for the concrete structural element. An impermeable sheet system is initially used to cover the concrete structural element. The impermeable covering aids in keeping the element"s humidity level constant. Water around the element is turned On and Off using the float valve. When a float valve is used, water is automatically kept at its optimum height continuously without any interruption. Without any breaks, the system continues to cure the structure. The impermeable sheet helps in keeping the water free from contamination. FIG. 1

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2023

(21) Application No.202331036455 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR SYNTHESIZING NANOCARBON-QUANTUM DOTS FROM DE-OILED MUSTARD CAKE

(51) International classification :H01G11/04
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT METHOD FOR SYNTHESIZING NANOCARBON-QUANTUM DOTS FROM DE-OILED MUSTARD CAKE presents a sustainable method for synthesizing carbon nano-dots (CNDs) from agricultural waste, specifically de-oiled cake from oilseed crops. By employing controlled pyrolysis and subsequent treatment steps, carbon-rich agricultural waste materials are converted into high-quality carbon nano-dots with excellent fluorescence, stability, biocompatibility, and low toxicity. The synthesized carbon nano-dots find applications in diverse fields such as food industry, environmental monitoring, biomedical diagnostics, energy devices, water treatment, and agriculture. They enable the detection of foodborne pathogens, additives, and nutritional components in the food industry, as well as the detection of heavy metals for water treatment. Additionally, they can enhance plant growth in agriculture and be integrated into energy devices and biomedical diagnostics. The present invention offers a sustainable solution to waste management, reducing reliance on non-renewable carbon sources. By transforming agricultural waste into valuable carbon nano-dots, it contributes to the development of eco-friendly nanotechnology, fostering a more sustainable and resource-efficient future. FIG. 1

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/05/2023

(21) Application No.202331036722 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL PHARMACEUTICAL COMPOSITION FOR TREATMENT OF AUTOIMMUNE DISEASES AND PREPARATION METHOD THEREOF

(51) International classification :A61K31/155
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a novel pharmaceutical composition for treatment of autoimmune diseases and preparation method thereof. The method for preparing pharmaceutical composition comprising the steps of: formulating a pharmaceutically acceptable salt with a pharmaceutically acceptable carrier; wherein the pharmaceutically acceptable salt includes Metformin hydrochloride, Chlorhexidine gluconate, Phenformin hydrochloride, mefomine hydrochloride, mefomine sulfate, mefomine citrate, mefomine tartrate, Buformin hydrochloride, mefomine phosphate, or mefomine acetate; wherein the pharmaceutically acceptable carrier comprises a mixture of saline, sterilized water, Ringer's solution, buffered saline, dextrose solution, maltodextrin solution, glycerol, ethanol, and one or more components of these components and further comprising one or more conventional additives selected from antioxidants, buffers, and bacteriostat. Accompanied Drawings [FIG.1-2]

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036831 A

(19) INDIA

(22) Date of filing of Application :28/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : APPLICATION OF NANOTECHNOLOGY IN CANCER

(51) International classification
(86) International Application No
Filing Date
(87) International Publication No
(61) Patent of Addition to Application Number
Filing Date
(62) Divisional to Application Number
Filing Date

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(57) Abstract :
Nanotechnology is an emerging field of healthcare that holds the potential to improve the diagnosis, treatment, and prevention of cancer. Nano particles in the form of polymers and nano materials have the ability to deliver drugs and other medications to cancer cells with higher accuracy and efficiency, enhancing drug performance and efficacy, while potentially reducing side effects and costs of treatments. This technology also has a role in the early detection of cancer through simple, rapid, reliable, and portable diagnosis techniques. Furthermore, as nanotechnology progresses, new treatments such as photodynamic therapy, targeted therapy, immunotherapy, and hyperthermia are becoming available for cancer patients. Finally, nano materials have the potential for mitigation of cancer risks in the environment by providing better ways of detecting and removing carcinogenic chemicals or optimizing delivery of existing treatments to reduce the dose. The applications of nanotechnology in cancer treatment will continue to expand with technological advances, increasing the accessibility and efficacy of treatments for patients.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036945 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : GAGA BALL TRAINING SYSTEM

		(71)Name of Applicant : 1)JIS University Address of Applicant :81 Nilgunj Road, Agarpara, Kolkata 700109, India. Agarpara -----
(51) International classification	:A63B67/00	Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	(72)Name of Inventor :
(87) International Publication No	: NA	1)Simarpreet Singh
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(62) Divisional to Application Number	:NA	Agarpara -----
Filing Date	:NA	2)Dr. Manpreet Singh Manna
		Address of Applicant :Faculty SLIET Longowal, Sangrur / Pro- VC Chandigarh University, Gharuan. Sangrur -----

(57) Abstract :

A gaga ball training system comprises of a an extendable plates 1 associated with the system attached with each other via hinges, plates 1 are oriented to form a ring within which multiple user(s) stand for playing gaga ball game in which user(s) are required to pass ball associated with system towards each other by only using hands, a camera 2 for capturing multiple images of user(s), a screen 3 enabling user(s) to select a mode of playing mode includes a training and normal mode, a pair of leg wearable units 4 worn by user(s) while playing game, multiple primary touch sensors for detecting touch of ball on user's legs, a pair of hand wearable units 6 worn by each of user(s) while playing, a ball launching unit 7 for launching ball towards user, and an LED (Light Emitting Diode) 8 for notifying user(s) regarding foul.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036946 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PAINTING ASSISTIVE DEVICE

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(51) International classification	:B05B13/02	
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
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(57) Abstract :

The present invention relates to a painting assistive device, comprising an expandable wearable component 1 equipped by a user over a wrist, a laser measurement sensor is mapped on component 1 for detecting dimension of user's wrist, a display panel 2 mounted on component 1 for enabling user to input details regarding an art painting that user desires to paint, a clamping units 3 installed on component 1 for clamping fingers of user, an audio unit 4 mounted on component 1 for generating audio notifications to alert user regarding a type of paint brush to be held by user for painting user-specified painting, an image capturing module 5 mounted on component 1 for detecting dimension of canvas along with monitoring user while painting and motorized ball and socket joints 6 for providing movement to fingers in order to aid user in painting desired painting.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036947 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ASSISTIVE ABALONE BOARD GAME PLAYING DEVICE

		(71)Name of Applicant : 1)JIS University Address of Applicant :81 Nilgunj Road, Agarpara, Kolkata 700109, India. Agarpara -----
(51) International classification	:A63F3/00	
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
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(57) Abstract :

An assistive abalone board game playing device, comprises of a platform 1 developed to be positioned on a ground surface, a touch interactive display panel 3 mounted on platform 1 for enabling a user to input details regarding a mode of abalone game that user desires to play, a holographic projection unit 4 mounted on platform 1 for projecting a series of images to guide user regarding method of playing game, an audio unit 5 mounted on platform 1 for guiding user to arrange black and white balls on slots 2 at opposite ends and user is required to push an opponent's balls within a cavity 6 crafted over platform 1 in order to win game and an artificial intelligence based image capturing module 7 installed on platform 1 to determine a foul play.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202331036950 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : PORTABLE SEED SOWING DEVICE

(51) International classification :A01C7/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to a portable seed sowing device, comprising a platform 1 configured with plurality of rods 12 that provides support to the platform 1, a pair of motorized track wheel 3 is attached with the rods 12 for providing movement to platform 1, an artificial intelligence based imaging unit 2 assembled on the platform 1 for capturing multiple images of surroundings of the platform 1 in order to evaluates total area to be sowed, a pair of rotatable members 4 configured with plurality of conical outlets 5 attached with the platform 1 in order to form multiple holes on the surface, an iris lid 6 is attached with the outlet 5 for dispensing a seed(s) stored within the members 4, a L-shaped telescopic rod 11 mapped on the platform 1 and hinged with a rotatable cylindrical member 10 that rotates to level the soil.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : AUTOMATED SOIL PLOUGHING DEVICE

(51) International classification :A01C15/00
 (86) International Application No :PCT// /
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to an automated soil ploughing device, comprising a housing 1 positioned on field wirelessly connected with computing for providing input regarding area of the field, an artificial intelligence imaging unit 2 for capturing surrounding images, to monitor area of field, a caterpillar track wheel 3 arranged underneath the housing 1 for moving the housing 1, a moisture sensor 4 for determining moisture of field, an electronically controller sprinkler 5 mapped on a water reservoir 6 for sprinkling water, a L-shaped hydraulic rod 7 for extending in proximity to surface, plurality of digging forks 9 arranged on free end of the rod 7 to plough the field, pair of telescopically operated bars 10 arranged on the housing 1 and integrated with a roller 11 for leveling surface and an ultrasonic sensor 12 for monitoring distance between the forks 9 and field's surface.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036952 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SOLAR BASED WOOD PYROGRAPHY DEVICE

(51) International classification :B05B13/02
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a solar based wood pyrography device comprises a housing 1, multiple receptacles 2 for storing different sizes of wooden pieces that are to be utilized for wood pyrography, a display panel 3 enabling a user to give input command regarding size of wooden piece along with a pattern to be pyrographed, a telescopic clamp 4 to extend and pick user-specified size of wooden piece from one of receptacle 2 position over a platform, a holographic projector 5 projecting an image of user-selected pattern over piece, an image capturing module 7 for capturing images of wooden piece to detect pattern of projected image, an LDR (Light Dependent Resistor) for detecting intensity of sunlight, a weight sensor for detecting weight of block, a clipper for gripping wooden piece over platform to restrict movement of wooden piece, and an angle sensor for detecting angle of magnifier unit 6.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036953 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATED SHAFT-AXLE KEY MANUFACTURING DEVICE

(51) International classification :H01H11/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An automated shaft-axle key manufacturing device comprises a housing 1 placed over a ground surface, a chamber 2 to store multiple metallic bars to be utilized to manufacture the keys, a touch interactive display panel 3 to input number as well as type of the keys to be manufactured, a robotic gripper 4 to pick and place bar, an artificial intelligence-based imaging module 6 to determine the dimensions of the bar, a motorized holder for accommodating the bar, multiple telescopically operated cutting tools 8 for cutting the bar, a set of sensors to detect the angle of cutting of key, length of key, and presence of burr on bar, a telescopically operated deburring tool and finishing files to remove the burr, a quenching unit 9 to accommodate finished bars, a peltier module for heating bar and an electronic nozzle to dispense water over heated bar to manufacture user required key.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036954 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : STAIRCASE ASCENDING ASSISTIVE DEVICE

(51) International classification :A61G5/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A staircase ascending assistive device comprises of an extendable frame 1 positioned along a staircase that is to be ascended by a user, a handle 4 for providing support to the user, an camera 5 for capturing multiple images of staircase, multiple ultrasonic sensors 6 for detecting height of each step of the staircase, multiple rods 7 for adhering the frame 1 on each of the steps of the staircase via a suction cup 8, an air compressor for inflating an inflatable member 9 for avoiding the collision of the user with the frame 1, a speaker 10 for notifying the user to appropriately grip the handle 4, multiple omnidirectional wheels 11 for allowing the user to maneuver the frame 1 to different places as per requirement, a microphone for enabling the user to give voice commands, a Peltier unit for maintaining the optimum temperature of the handle 4.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202331036955 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : TENNIS SHOT TRAINING DEVICE

(51) International classification :A63B69/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A tennis shot training device comprising a U shaped frame 1 configured with a pair of discs developed to be suspended from a ceiling portion of an enclosure, a motorized roller 2 wrapped with a rope 3 for wrapping/unwrapping rope 3 to suspend a ball connected to rope 3 at an optimum height, a user-interface for enabling a user to input details regarding a level of tennis shot training desired to be attained by user, a motorized ball and socket joint 5 for providing rotational movement to ball, an impact sensor to detect contact of a tennis racket with ball while attaining training, an artificial intelligence based image capturing module 6 to detect posture of user while attaining training and an audio unit 7 for generating audio notifications to alert user regarding an appropriate posture to be maintained throughout training.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : WOODEN KEYRING MANUFACTURING DEVICE

(51) International classification :H01H11/00
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

A wooden keyring manufacturing device, comprises of a housing 1, telescopic rods 3 configured with omnidirectional wheels 2 to maneuver the housing 1, a touch interactive display panel 4 to input design, color of key ring, a chamber 5 storing wooden pieces, a robotic gripper 6 for gripping, placing on a motorized conveyor 7, a platform 8 configured of suction cups 9, an AI enabled imaging module 10 for detecting dimensions, a robotic arm 11 with a blade 12 for cutting wooden piece, an extendable rod 13 with a motorized grinder 14 to grind keyring, a telescopic bar 15 with a sprayer 16 to paint over keyring, an opening with a tray 17, a sliding unit 18 to translate keyring on tray 17, an air blower 19 to dry the key ring, a proximity sensor to detect obstacle, and a pneumatic rod 20 is attached with tray 17 to open/close.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : AUTOMATED TERRA-PLANTER MANUFACTURING DEVICE

(51) International classification :A01G27/00
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention relates to an automated terra-planter manufacturing device, comprises a housing 1 developed to be positioned on a ground surface, a chamber 2 is arranged within housing 1 for storing chunks of clay, a display panel 3 for enabling a user to input details regarding number of terra-planners required to be made along with a shape and pattern of planters, a weight sensor for detecting presence of clay chunk, a motorized grinder 6 for grinding chunks into fine clay powder, an electronic nozzle 9 for dispensing water stored in receptacle 10 within vessel 8, an image capturing module 12 for determining proper kneading of clay, an electronic valve 15 slot for dispensing clay within mold 14 and an air blower 16 arranged for dispensing warm air towards mold 14 for making user-specified terra-planners.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036958 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : CUSTOMIZABLE STAMPING DEVICE

(51) International classification :B30B13/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A customizable stamping device, comprises of a platform 1, a touch interactive display screen 2 that is accessed by a user to provide input regarding a set of words that are to be imprinted on a paper along with color in which user desires to imprint the words, a holographic projector 3 to project a virtual path on platform 1, a panel 4 by means of motorized hinge 5 to hold paper, an artificial intelligence based image unit to determine proper positioning of paper, a robotic arm 7 to extend and grip blocks printed with patterns representing user-specified words, multiple electromagnets wherein arm 7 positions gripped blocks on electromagnets to form user-specified words in sync with imaging unit 6, multiple telescopically operated pins to extend and get positioned on paper and multiple electronically controlled valves for dispensing user-specified color ink onto paper.

No. of Pages : 16 No. of Claims : 9

(54) Title of the invention : FRISBEE GAME BASED AIM TRAINING SYSTEM

<p>(51) International classification :A63B69/00</p> <p>(86) International Application No :PCT// /</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)JIS College of Engineering</p> <p>Address of Applicant :Block A, Phase III, PO & PS - Kalyani, Dist. Nadia- 741235, West Bengal, India. Kalyani -----</p> <p>----</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Sandip Ghosh</p> <p>Address of Applicant :JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia- 741235, West Bengal, India. Kalyani -----</p> <p>2)Pranati Rakshit</p> <p>Address of Applicant :JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia- 741235, West Bengal, India. Kalyani -----</p> <p>3)Anal Ranjan Sengupta</p> <p>Address of Applicant :JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia- 741235, West Bengal, India. Kalyani -----</p> <p>4)Ira nath</p> <p>Address of Applicant :JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia- 741235, West Bengal, India. Kalyani -----</p> <p>5)Suraj Gazi</p> <p>Address of Applicant :JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia- 741235, West Bengal, India. Kalyani -----</p>
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(57) Abstract :

A Frisbee game based aim training system comprises a platform 1 for practice games, a bucket 2 to place Frisbees 3, multiple Frisbees 3 to throw into bucket 2, a touch-enabled screen 4 for input, a microcontroller to process commands, an artificial intelligence enabled camera 5 for capturing images, multiple motorized omnidirectional wheels 6 for maneuvering platform 1, a pair of telescopically operated rods to positioned bucket 2, a pair of motorized ball for tilting bucket 2, a C-shaped member 8 to direct Frisbee, a motorized ball joint 7 for tilting member 8, an RTC (Real-Time Clock) module for monitoring real-time, a speaker 9 for notifying user, a break-beam sensor for detecting number of collected Frisbees 3, a telescopically operated gripper 10 for gripping Frisbees 3, a chamber 11 to place Frisbee, an angle sensor for detecting angle of bucket 2, an ultrasonic sensor for detecting distance.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036961 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SAMADHAN – A DIGI-LEGAL ADVISOR

(51) International classification :G06Q10/06
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT The "Samadhan – A Digi-Legal Advisor" is an innovative online portal created to provide legal relief and advice to the parties involved in legal matters as well as to the general public. It is a secure and authentic platform for resolving legal issues with a focus on maintaining the confidentiality of client matters. The platform includes features such as online legal advice and solutions, online conciliation and arbitration, court case updates, acts and rules, leading cases and statements, and advocate listings. The platform aims to save time and money for clients by offering hassle-free processes and direct connections to legal experts for conciliation and arbitration. The platform is affiliated with authorized legal bodies such as the Bar Council of India for national validity and recognition. Overall, "Samadhan Digi-Legal Advisor" is a novel invention that aims to provide accessible and reliable legal solutions to the public.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036971 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : EXERCISING DEVICE FOR RELIEVING NUMBNESS

(51) International classification :A61B5/091
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An exercising device for relieving numbness comprises a platform 1 configured with a conveyer belt 2 utilized by user for running exercise, a pair of extendable plates 3 for support, an artificial intelligence enabled camera 4 for capturing images, a touch enabled screen 5 to select level of exercise, a telescopically operated rod 6 to extend for maintaining angle of belt, a DC motor for rotating belt, a C-shaped motorized clamp 8 for gripping user's waist, a pressure sensor for detecting pressure applied by clamps 8, a microphone 9 to give a voice command, a chamber 10 to store salt water, multiple sprinklers 11 for spraying salt water, a waste container 12 to collect wastewater, a cushion pad for providing comfort, an hot air blower for drying, a level sensor for detecting level of salt water, and a computing unit for notifying to re-fill chamber 10.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036972 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SKIN CARE PRODUCT PREPARATION DEVICE

(51) International classification :B01D29/03
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A skin care product preparation device comprising of a cylindrical body 1 crafted with a touch interactive display panel 2 for giving input commands, a chamber 3 mapped with body 1 for storing solvent, a container 5 mapped below chamber 3 for storing solvent, an electronic nozzle 4 attached with chamber 3 for dispensing solvent, a vessel 6 installed on body 1 for storing herbal plant, a two axis slider installed inside vessel 6 configured with a blade for removing outer layer of herbal plant, a robotic gripper 8 installed on body 1 for gripping pulp, a motorized stirrer 9 configured on body 1 via a C-shaped telescopic rod 10 for mixing solvent with herbal plant, an artificial intelligence enabled image capturing module 7 installed on body 1 for detecting successful insertion of container 5 into slot, a display panel 2 for displaying level of materials.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036973 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SNACK PROCESSING DEVICE

(51) International classification :A23P20/13
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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(57) Abstract :

A snack processing device which encompasses of housing 1 installed with a chamber 2 for storing refined flour, a touch interactive display panel 3 is mapped on the housing 1 for enabling the user input regarding the quantity and dimension of the snack, a primary motorized iris lid 4 is configured within the chamber 2 to regulate the quantity, a receptacle 5 is placed beneath the chamber 2 to initiate the snacks processing operation, an ECV 6 is configured with the container 7 in the receptacle 5 to regulate flow of water, a motorized stirrer 8 is configured at the receptacle 5 base, a flavoring unit 9 installed beneath receptacle 5 for mixing , a cylindrical member 13 is crafted beneath the flavoring unit 9, a telescopic pusher 14 is attached on the cylinder ,iris lids 4 installed with cylinder for shaping the seasoned dough in desired shape.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036974 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATED POT MANUFACTURING DEVICE

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(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated pot manufacturing device comprising a housing 1, a touch interactive display panel 2 mounted on the housing 1 for enabling the user to input details regarding number of pots required to be manufactured, a primary robotic gripper 3 installed within the housing 1 for withdrawing a balloon from a chamber 5 arranged within the housing 1, an artificial intelligence based image capturing module 4 for detecting proper inflation of the balloon, an adhesive application unit 6 installed within the housing 1 via a motorized slider 7 for dispensing a pre-fed amount of adhesive over the inflated balloon and a secondary robotic gripper 8 for withdrawing pre-cut pieces of paper stored within a receptacle 9 installed within the housing 1.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : WRIST EXERCISING DEVICE

(51) International classification :A63B24/00
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention relates to a wrist exercising device, comprising a platform 1 positioned on a ground surface and mounted with rod equipped with a motorized clamp 2 that holds a horizontal extendable bar 3 utilized by a user for performing a wrist exercise, a touch sensor installed on bar 3 for detecting user's touch on bar 3, a camera 4 installed on platform 1 for detecting shoulder width of user, a motorized roller 5 wrapped with a string installed on bar 3 for rotating to unwrap the string as a means of allowing a magnetic interaction between a metallic block 6 attached with string and a magnet 7 installed on platform 1 via motorized circular slider, a thermal imaging unit 8 installed on platform 1 for detecting strain in user's wrist, and a dolorimeter installed on bar 3 for detecting pain in user's wrist.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036976 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUTOMATED WATER HARVESTING DEVICE

(51) International classification :E03B3/28
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An automated water harvesting device comprises of a frame 1 having a first portion and second portion developed to be placed over a ground surface, a pair of telescopic rods 2 for providing stability to the frame 1 over the surface, a pair of vertical rigid bars 3 configured with a flexible net fabric material 5 for allowing ambient air to pass through the net, an anemometer 6 for detecting direction of wind flowing in ambient environment, multiple omnidirectional wheels 7 for altering angular position of the frame 1, a temperature sensor for detecting temperature of the wind flowing, a Peltier unit for heating the net, a storage chamber 8 for collecting water drops, a gravity water filter for filtering the collected water, an AI (Artificial Intelligence) enabled camera 12 for detecting damage on the net, and an angle sensor for detecting angle of the frame 1.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : MODULAR SHELTER FOR BIRDS

(51) International classification :A01K31/00
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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3)Dr. Ravinder Kaur

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(57) Abstract :

A modular shelter for birds is developed includes a plate 1 configured with suction cups 2 for attaching over ceiling, motorized slider 3 wrapped with a string 4 via motorized ball joints, a body is attached with strings 4 for providing shelter to birds, a container 5 segregated into multiple compartments 6 installed over housing, the microcontroller actuates a pair of motorized iris lid 7 to expand for dispensing water and grains, an artificial intelligence enabled imaging unit 9 installed with an ultrasonic sensor for detecting presence of other animals and actuates a speaker installed on body for notifying user, a dust sensor is installed within body for detecting dust, a suction unit 10 is installed in the housing to withdraw dust, and wind sensor is installed over housing for detecting speed of wind.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331036978 A

(19) INDIA

(22) Date of filing of Application :29/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : FOOD CUTTING ASSISTIVE DEVICE

(51) International classification :B26D1/06
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A food cutting assistive device, comprising a platform 1 developed to be positioned on a ground surface, multiple suction cups 2 are arranged underneath the platform 1 for affixing the platform 1, multiple pneumatic pins arranged on the platform 1 for extending around the food item in order to grip the item, a touch interactive display panel 3 mounted on the platform 1 for enabling the user to input details, a motorized lid configured on a chamber 6 arranged on the platform 1 for opening in order to allow the user to withdraw a knife from the chamber 6, an image capturing module 5 mounted on the platform 1 for detecting dimension of the platform 1 and a holographic projection mapped on the platform 1 for projecting series of images depicting the evaluated slices in order to aid the user in cutting equal slices of the food item.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2023

(21) Application No.202331037113 A

(43) Publication Date : 02/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE TO ANALYSES THE EFFICIENCY OF PHOTOSYNTHESIS OF PLANTS ON THE AGRICULTURE

(51) International classification :A01K63/04
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A number of recent studies have provided strong support demonstrating that improving the photosynthetic processes through genetic engineering can provide an avenue to improve yield potential. The major focus of this review is on improvement of the Calvin–Benson cycle and electron transport. Consideration is also given to how altering regulatory process may provide an additional route to increase photosynthetic efficiency. Here we summarize some of the recent successes that have been observed through genetic manipulation of photosynthesis, showing that, in both the glasshouse and the field, yield can be increased by >40%. These results provide a clear demonstration of the potential for increasing yield through improvements in photosynthesis. In the final section, we consider the need to stack improvement in photosynthetic traits with traits that target the yield gap in order to provide robust germplasm for different crops across the globe.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331037327 A

(19) INDIA

(22) Date of filing of Application :30/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : DEVELOPMENT AND VALIDATION OF RP-HPLC METHOD FOR ESTIMATION OF ROSUVASTATIN CALCIUM IN PHARMACEUTICAL DOSAGE FORM

		(71)Name of Applicant : 1)Kallol Jana Address of Applicant :School of Pharmacy, Techno India University, West Bengal, EM 4, Sector –V. Salt Lake ----- ----- 2)Beduin Mahanti Name of Applicant : NA Address of Applicant : NA
(51) International classification	:C07D405/06	(72)Name of Inventor : 1)Kallol Jana Address of Applicant :School of Pharmacy, Techno India University, West Bengal, EM 4, Sector –V. Salt Lake ----- ----- 2)Beduin Mahanti Address of Applicant :School of Pharmacy, Techno India University, West Bengal, EM 4, Sector –V Salt Lake ----- -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides the development and validation of a new improved RP-HPLC method for the estimation of rosuvastatin calcium in the pharmaceutical dosage form. The developed method represents a fast, cost-effective, simple analytical procedure for the estimation of Rosuvastatin Calcium in pharmaceutical dosage forms. The sample preparation and the mobile phase preparation are simple, the analysis time is very short and elution is isocratic. The proposed method has the advantage of low solvent consumption and the large number of samples can be analyzed with excellent precision and accuracy. The method is accurate, precise, rapid and selective for estimation of Rosuvastatin Calcium in tablet dosage form. Hence this method can be applied for routine analysis of Rosuvastatin Calcium in formulation. The chromatography was achieved by Thermo scientific C8 column, 250 x 4.6 mm, particle size 5 µm with flow rate of 1.0 ml/min. Detection was monitor at 248 nm. The mobile phase consisted of methanol : acetonitrile : water (40:40:20,v/v). Retention time of Rosuvastatin Calcium was found to be 3.427-and an overall analytical run time of approximately 5 minutes.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : CHALLENGES OF HPLC METHOD DEVELOPMENT AND VALIDATION FOR ASSAY OF BEMOTRIZINOL FROM COMPLEX MATRIX

<p>(51) International classification :A61K8/34 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kallol Jana Address of Applicant :School of Pharmacy, Techno India University, West Bengal, EM 4, Sector –V Salt Lake ----- ----- 2)Beduin Mahanti Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Kallol Jana Address of Applicant :School of Pharmacy, Techno India University, West Bengal, EM 4, Sector –V Salt Lake ----- ----- 2)Beduin Mahanti Address of Applicant :School of Pharmacy, Techno India University, West Bengal, EM 4, Sector –V Salt Lake, ----- -----</p>
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(57) Abstract :

The present invention provides challenges of HPLC method development and validation for the assay of Bemotrizinol from a complex matrix in cosmeceutical preparation. The retention time of bemotrizinol was found in 17.599 min and the linear regression analysis data for the calibration plots showed good linear relationship in the concentration range of 70 to 130 µg/mL. The value of the correlation coefficient, slope, and intercept was 0.996, 7,715, and 15320 respectively. The limit of quantification (LOQ) and limit of detection (LOD) were found to be 1.32 and 0.44 respectively. The RSD for intra-day Sample A 1.0858, Sample B was 0.8859 and inter-day Sample A 0.9921, and Sample B was 0.9670 which were found to be lesser than 2%. The proposed mobile phase used in this method is very simple and excluding buffer. The use of buffer reducing the column longevity and also time consuming process which increase the cost of analysis. To overcome all the referred problems, the present article was developed and validated as per ICH guidelines. The reverse phase chromatography was performed by µBondapack (3.9 x 300 mm, 10 micron particle size) column with methanol (100 %) as mobile phase at a flow rate 2.5 ml per minutes and UV detection at 254 nm. The developed method was found to be simple, cost effective, precise, accurate, linear and specific for the successful identification and determination of bemotrizinol in pharmaceutical cosmetic preparation.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : Systematic Nonlinear Filters-Based Parallel Demosaicking and Denoising of Natural Images Infected with Non-Gaussian Noise

<p>(51) International classification :G06F18/214 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prabhakar Rao Barre Address of Applicant :Research Scholar, Department of Electrical and Electronic Engineering, Jharkhand Rai University Ranchi. Email: bpraokranthi@gmail.com ----- 2)Dr. Shraddha Prasad Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Prabhakar Rao Barre Address of Applicant :Research Scholar, Department of Electrical and Electronic Engineering, Jharkhand Rai University Ranchi. Email: bpraokranthi@gmail.com ----- 2)Dr. Shraddha Prasad Address of Applicant :Associate Professor, Faculty of Science & Engineering, Jharkhand Rai University, Ranchi. Email: shraddha.prasad@jru.edu.in -----</p>
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(57) Abstract :

In the realm of image restoration, where non-Gaussian noise corruption is prevalent, the effectiveness of nonlinear filters surpasses that of linear filters. Furthermore, the conventional sequential demosaicking and denoising methods are outperformed by the highly efficient and fast parallel demosaicking cum denoising approach. In this paper, the authors rigorously analyze, implement, evaluate, and objectively establish these assumptions. The authors address the lack of pragmatic research on restoring images from non-Gaussian noise-infected sources by employing sixteen nonlinear filter techniques and one linear filter technique. Through this implementation, the authors successfully reconstruct the color in images contaminated with both Gaussian and non-Gaussian noise. Objective performance metrics such as MMSE, CPSNR, and S-CIELAB are obtained and compared for comprehensive evaluation, while subjective evaluation is conducted through the presentation of the reconstructed images for viewers' assessment. The proposed systematic approach utilizes a standard image dataset to facilitate the implementation of the nonlinear filter-based parallel demosaicking cum denoising technique for non-Gaussian noise-infected images.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331037654 A

(19) INDIA

(22) Date of filing of Application :31/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AUGMENTED VOICE CONTROLLED WRITING INSTRUMENT USING MACHINE LEARNING & IOT

		(71)Name of Applicant : 1)BIBHU KALYAN MISHRA Address of Applicant :ASSISTANT PROFESSOR,FOS,SRI SRI UNIVERSITY,GODI SAHI-754006,CUTTACK ----- ----- 2)Dr.Bhabendu Kumar Mohanta 3)Dr.Asesh Kumar Tripathy 4)Mohan Kumar Dehury Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)BIBHU KALYAN MISHRA Address of Applicant :ASSISTANT PROFESSOR,FOS,SRI SRI UNIVERSITY,GODI SAHI-754006,CUTTACK ----- ----- 2)Dr.Bhabendu Kumar Mohanta Address of Applicant :Associate Professor,Department of CSE,Koneru Lakshmaiah Education Foundation,Vijayawada,Andhra Pradesh Vijayawada ----- ----- 3)Dr.Asesh Kumar Tripathy Address of Applicant :Assistant Professor,Department of CSE(H),Koneru Lakshmaiah Education foundation,Vijayawada,Andhra Pradesh Vijayawada ----- ----- 4)Mohan Kumar Dehury Address of Applicant :Assistant Professor,Amity Institute Of Information Technology,Amity University,Jharkhand Ranchi ----- -----
(51) International classification	:B43K23/12	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to augmented voice controlled writing instrument using machine learning & IOT. The objective of the present invention is to solve the problems in the prior art related to technologies of natural writing with automatic control of smart IOT & deep ML algorithm which will solve the said purpose of the customer.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331037696 A

(19) INDIA

(22) Date of filing of Application :31/05/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SLOPE STABILITY ANALYZER AND ALERT SYSTEM

(51) International classification :G01M17/03
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AMITY UNIVERSITY, PATNA

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Rupaspur, Bailey Road, Patna, BIHAR, INDIA – 801503 Patna ---

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SATYAJIT NATH

Address of Applicant :Amity University, Patna; Near Rupaspur
Police Station, Rupaspur, Bailey Road, Patna, BIHAR, INDIA –
801503 Patna -----

(57) Abstract :

ABSTRACT SLOPE STABILITY ANALYZER AND ALERT SYSTEM relates to a Slope Stability Analyzer and a method to alert people. The system includes a cylindrical beam connected to sensors, with multiple nodes possible in the system. Each node senses the slope stability parameter using sensors and sends the data to the central node, which transfers it to the cloud through a GSM module. The user accesses the data using a web application connected to the cloud. The node is composed of a Piezoelectric accelerometer, pressure actuator, and NRF Transmitter module, and the central node uses an NRF receiver. When there is movement in the slope, the node uses the NRF module to communicate data to the central node, which then uploads the information to the cloud. The cloud app sends the user an alert if there is a slope movement. The invention provides a reliable and cost-effective system for slope stability analysis, which can significantly reduce the risks associated with slope failures and provide timely warnings to ensure public safety. FIG. 3

No. of Pages : 24 No. of Claims : 8

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014735 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : LIGNIN BASED POLYPYRROLE NANOFORMULATIONS AS HIGHLY EFFECTIVE ANTIVIRAL AGENTS AGAINST SARS-COV-2

(51) International classification	:A61K0009510000, C08L0005080000, C08L0097000000, A01N0059200000, A61K0031050000	(71)Name of Applicant : 1)CENTER OF INNOVATIVE AND APPLIED BIOPROCESSING (CIAB) Address of Applicant :CENTER OF INNOVATIVE AND APPLIED BIOPROCESSING (CIAB), (Knowledge city), Sector 81, MOHALI, INDIA-140306 Punjab India 2)REGIONAL CENTRE FOR BIOTECHNOLOGY (RCB)
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Jayeeta Bhaumik
(33) Name of priority country	:NA	2)Sudhanshu Vrat
(86) International Application No	:NA	3)Yeddula Nikhileshwar Reddy
Filing Date	:NA	4)Sanjam Chandna
(87) International Publication No	: NA	5)Shatabdi Paul
(61) Patent of Addition to Application Number	:NA	6)Ravneet Kaur
Filing Date	:NA	7)Shubhra Agarwal
(62) Divisional to Application Number	:NA	8)S. Chandru
Filing Date	:NA	

(57) Abstract :

Lignin, a natural biopolymer is a potential antimicrobial and anticancer agent. Being a member of polyphenolic family it possesses antioxidant and antiviral properties. Polypyrroles are promising candidates for the generation of reactive oxygen species (ROS). Through ROS generation, they act as effective antimicrobial agents. However, these macromolecules lack hydrophilicity which make them difficult for applications in biological systems. To overcome this water insolubility issue, polypyrroles can be loaded into various lignin based nanomaterials via entrapment or conjugation. Lignin based nanomaterials are biocompatible and can serve as a great platform for the delivery of the bioactive agents including polypyrroles. Therefore, the polypyrroles, the lignin nanomaterials, and the polypyrrole loaded lignin nanoformulations are subjected to cytotoxicity as well as antiviral efficacy study against SARS-CoV-2 cell lines. Interestingly, polypyrroles loaded on lignin based nanomaterials show very high virus destruction capacity when compared to a positive control. Notably, the polypyrroles loaded (via conjugation or entrapment) on lignin nanomaterials are found to be more effective than the native ones. This could be due to more availability of ROS generated from the polypyrroles doped on lignin based nanomaterials. Notably, neither polypyrroles (mainly due to insolubility) nor lignin based nanomaterials were much effective against the virus. Whereas, lignin based nanomaterials caused synergistic effect to destroy the SARS-CoV-2 virus. The nanoformulations are useful in generating therapeutics, additives in antiviral coatings and at a large as a highly effective antiviral agent against SARS-CoV-2.

No. of Pages : 12 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022622 A

(19) INDIA

(22) Date of filing of Application :20/05/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR ACQUIRING A VERIFIED UNMASKED DATA

(51) International classification	:G06Q0030060000, G06F0021620000, G06Q0030000000, G01R0035040000, G11B0027034000	(71) Name of Applicant : 1)R Srinivasan Address of Applicant :Moon 4, 503, Jaypee Greens, Greater Noida Uttar Pradesh Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)R Srinivasan
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE INVENTION A SYSTEM AND METHOD FOR ACQUIRING A VERIFIED UNMASKED DATA The present invention relates to a system and method for data masking using a virtual token to provide a user a verified unmasked data. The method includes registering a user on the digital verification system, selecting a category of data and/or sub category of data by the user, displaying a data list of selected category, selecting random data field of the data list for verification, masking the total data list after verification, buying the total data list using the virtual token, selecting and downloading the verified data by the user and displaying an unmasked data on the user device. Fig. 3

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : COMPOSITION AND METHOD FOR SYNTHESIS OF STRONTIUM HEXAFERRITE BASED NON-RARE-EARTH MAGNETS

(51) International classification	:H01F0001057000, H01F0041020000, C04B0035260000, H01F0001340000, H01F0001000000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)PRADIP KUMAR ROY
(33) Name of priority country	:NA	2)AKANKSHA GUPTA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT COMPOSITION AND METHOD FOR SYNTHESIS OF STRONTIUM HEXAFERRITE BASED NON-RARE-EARTH MAGNETS The present invention relates to a composition of strontium hexaferrite (SrFe₁₂O₁₉/SrM) based non-rare-earth magnets by using the characteristics of tunable magnetic anisotropic properties of the SrM hard magnet. An improved hard magnet with a high Ms, high Hc and high (BH)_{max} is developed and a soft magnet with a huge decline in intrinsic coercivity with high saturation magnetizations provides the soft magnetic applications. These modified ferromagnetic materials shows good magnetic and dielectric properties to provide a magnet having both hard as well as soft magnet applications. A sol-gel auto-combustion method is utilized for preparing the composition comprising SrM based SrFe₁₂-(x+y)CoxCryO₁₉ (0=x, y=1) magnets. The strontium based non-rare-earth magnetic composition of the present invention provides an alternative to the existing costly rare-earth magnets. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022900 A

(19) INDIA

(22) Date of filing of Application :22/05/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : APPARATUS FOR PROTECTING USERS FROM VIRUS OR ALLERGIES

(51) International classification	:A61B0005145500, A61B0005000000, A61B0005024000, F24F0003160000, F26B0021000000	(71)Name of Applicant : 1)Hardik Kumar Dewan Address of Applicant :HN. 989, Sector-7, Ambala City (134003), Haryana Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Hardik Kumar Dewan
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Apparatus for protecting users from virus or allergies An apparatus (100) for protecting users from viruses and bacteria or allergies is disclosed. The apparatus (200) comprises a purifier module (206), a cooling module (208), a pulse oximeter module (210) to measure oxygen level and pulse rate of the user, a memory module (212) storing data of the user, and a processor module (214) communicably coupled to the auto temperature module (202), the steps calculation module (204), a pulse oximeter module (210), and the memory module (212), the processor module (214). The purifier module (206) is configured to filter the air containing bacteria and viruses or any other particles entering the apparatus. The cooling module (208) is configured to cool the air filtered through the purifier module (206).

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111023156 A

(19) INDIA

(22) Date of filing of Application :24/05/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SOFTEST COTTON BLEND FOR TOWELS AND FABRIC

(51) International classification	:H04M0001180000, G06F0001180000, A47K0010420000, D06M0101060000, D06P0003600000	(71)Name of Applicant : 1)TRIDENT LIMITED Address of Applicant :Trident Group, Sanghera, Punjab – 148101, India Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)GUPTA, Abhishek
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SOFTEST COTTON BLEND FOR TOWELS AND FABRIC The invention provides blended yarns, fabrics, and methods of manufacture thereof - that improve durability of the fabrics without deterioration in overall hand-feel and in 5 absorbency of the fabric. The blended yarns, fabrics (and methods of manufacturing such fabrics) enable the resulting fabrics to retain softness, absorbency and durability characteristics even after multiples washes – for example, for use as a file fabric or as a bedsheet.

No. of Pages : 37 No. of Claims : 25

(54) Title of the invention : A NOVEL FORMULATION OF PIRIFORMOSPORA INDICA, TRICHODERMA HARZIANUM, AND TRICHODERMA LONGIBRACHIATUM AND MICROTITER PLATE METHOD TO DETERMINE SIDEROPHORE PRODUCTION

(51) International classification	:A01N0063300000, C12N0001140000, C12R0001885000, G01N0033530000, A23K0020189000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ISHAN TIWARI
(33) Name of priority country	:NA	2)Gaurav Yadav
(86) International Application No	:NA	3)Ajit Varma
Filing Date	:NA	4)Arti Goel
(87) International Publication No	: NA	5)DK Choudhary
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A NOVEL FORMULATION OF PIRIFORMOSPORA INDICA, TRICHODERMA HARZIANUM, AND TRICHODERMA LONGIBRACHIATUM AND MICROTITER PLATE METHOD TO DETERMINE SIDEROPHORE PRODUCTION The present invention relates to a novel interactive study of Piriformospora indica, Trichoderma harzianum, and Trichoderma longibrachiatum and microtiter plate method to determine siderophore production under salinity & drought condition. The present invention has been carried to see propensity of agriculturally important fungal strains to produce iron chelator i.e. siderophore. For this study three fungal strains viz., Piriformospora indica, Trichoderma harzianum, and Trichoderma longibrachiatum were employed to see siderophore production on chromeazurol 'S' Petri plate. Besides, all strains were placed together on plate to see synergistic reflection among them. A microtiter plate assay was also performed to check siderophore production under saline and poly ethylene glycol conditions with varied percentage. The present invention may be considered as worthwhile approach in bioremediation and agriculture sustenance under iron deficient soil. Accompanied Drawing [FIGS. 1-8] Dated this 20th day of May, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025366 A

(19) INDIA

(22) Date of filing of Application :08/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A METHOD FOR REPURPOSING OLD WIND TURBINE BLADES IN NAUTICAL APPLICATIONS FOR BUILDING COMPOSITE BOAT HULLS, BOAT SECTIONS AND FLOATATION DEVICES.

(51) International classification	:C08L0023100000, B63B0005240000, B29C0070540000, B63B0001120000, C08L0021000000	(71)Name of Applicant : 1)RAVI JYOTI DEKA Address of Applicant :205, H, BLOCK VIKASPURI NEW DELHI-110018, INDIA Delhi India (72)Name of Inventor : 1)RAVI JYOTI DEKA
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Wind Turbine Blades are manufactured from inert, -non-biodegradable -and difficult to recycle materials like Fibreglass, Carbon Fibre, PET and PVC Foam and thermosetting plastics like Epoxy, vinylester and polyester resin, and their large sizes and unique shape makes it challenging to repurpose them effectively in other fields. Thus, most old decommissioned blades end up in landfills. A Cambridge University report estimates that there will be 43 million MT of Blade waste by 2050. The current invention relates to a cost-effective, environmentally friendly method for recycling old decommissioned structurally intact Wind Turbine Blades by repurposing various cut-out segment's as semi-finished parts for constructing hulls, cabins and other sections of nautical vessels and converting the round root into floats for marinas, floating dock and jetties, pontoon bridges and buoys.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024838 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SURFACE CLEANING APPARATUS

(51) International classification	:F04B0039000000, H02K0011210000, E05B0005000000, A01B0076000000, A63B0021000000	(71)Name of Applicant : 1)CHITKARA INNOVATION INCUBATOR FOUNDATION Address of Applicant :SCO: 160-161, SECTOR – 9C, MADHYA MARG, CHANDIGARH – 160009, INDIA Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Gurdial Singh
(33) Name of priority country	:NA	2)Sunil Kumar
(86) International Application No	:NA	3)Anoop Aggarwal
Filing Date	:NA	4)Prabhjot Singh
(87) International Publication No	: NA	5)Gaurav Jain
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE: SURFACE CLEANING APPARATUS ABSTRACT A surface cleaning apparatus (100) comprising: a sliding member (106) mounted on a portion of a handle (102), to be moved in a direction selected from an upward direction or a downward direction by using a screw (108); linkage bars (110a-110b) attached to corresponding sides of the sliding member (106), to be extended and/or retracted back from and/or to respective pre-defined positions based on a movement of the sliding member (106); and sliding blades (114a-114b) housed inside a blade frame (112), to be extended and/or retracted back in an outward direction and/or an inward direction to adjust a length of the sliding blades (114a-114b). Claims: 10; Figures: 11 Figure 1A is selected

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024839 A

(19) INDIA

(22) Date of filing of Application :03/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : MULTIFUNCTIONAL SALVER

(51) International classification :A47L0005240000,
B66F0009120000,
A01G0023040000,
G09F0015000000,
E04H0017220000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)CHITKARA INNOVATION INCUBATOR
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Address of Applicant :SCO: 160-161, SECTOR – 9C,
MADHYA MARG, CHANDIGARH – 160009, INDIA
Chandigarh India

(72)Name of Inventor :

**1)Sushil Kalra
2)Sachin Bhogal
3)Gurdial Singh
4)Gaurav Jain
5)Sunil Kumar**

(57) Abstract :

TITLE: MULTIFUNCTIONAL SALVER ABSTRACT A multifunctional salver (100) comprising: a detachable tray (102) designed to hold by a user; a nested structure (104) comprising slots (106a-106n) and a hub (108) such that the slots (106a-106n) are formed at outer edges of the nested structure (104) to surround the hub (108), and hooks (110a-110n) distributed on the nested structure (104) such that the hooks (110a-110n) enable the detachable tray (102) to be attached over the nested structure (104), wherein the detachable tray (102) and the nested structure (104) are adapted to secure glassware (112a-112n). Claims: 10 Figures: 8 Figure 1 is selected

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : GREEN FACILE SYNTHESIS OF AG-DOPED CU/ZNO NANOCOMPOSITE (G-AGNC) USING LEAF EXTRACT OF MELIA AZEDARACH AS A CAPPING AGENT FOR BIOMEDICAL APPLICATIONS

(51) International classification	:A61K0036580000, C30B0029600000, A61K0031555000, B22F0009240000, C08G0018800000	(71)Name of Applicant : 1)Prof. Adesh Kumar Saini Address of Applicant :Department of Biotechnology MMEC Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, India 133207 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Deepak Pathania
(33) Name of priority country	:NA	2)Prof. Adesh Kumar Saini
(86) International Application No	:NA	3)Dr. Reena V. Saini
Filing Date	:NA	4)Dr. Arush Sharma
(87) International Publication No	: NA	5)Sarita Kumari
(61) Patent of Addition to Application Number	:NA	6)Prof Bhuvanasha Gupta
Filing Date	:NA	7)Dr. Divya Mittal
(62) Divisional to Application Number	:NA	8)Dr. Gaurav Chandan
Filing Date	:NA	9)Rahul Thakur
		10)Dr. Vipin Saini

(57) Abstract :

Green facile synthesis of Ag-doped Cu/ZnO nanocomposite (G-AgNC) using leaf extract of Melia azedarach as a capping agent for biomedical applications This invention relates to Green facile synthesis of Ag-doped Cu/ZnO nanocomposite (G- AgNC) using leaf extract of Melia azedarach as a capping agent for biomedical applications. The anticancer activity of nanocomposite G-AgNC on the cultured SH-SY5Y cell line revealed that the compound exhibited inhibitory activity comparable to that of paclitaxel as shown in Fig. H. At 200 µg/ml, G-AgNC showed cancer cell death in neuronal cells (56.20 %). The IC50 of G- AgNCon the cells was 137.4 ± 1.07(p = 0.05).

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024990 A

(19) INDIA

(22) Date of filing of Application :04/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : NOVEL METHODS FOR DETECTION OF ATORVASTATIN CALCIUM(IR) PELLETS AND ITS STANDARD TEST PROCEDURE

(51) International classification	:C07D0207340000, G01N0001380000, A61K0031400000, G01N0033569000, C08G0081020000	(71)Name of Applicant : 1)Aditya Gupta Address of Applicant :Pellcaps India, Kala Amb, HP, 173030 Himachal Pradesh India 2)Prof. Vipin Saini 3)Manish Kumar 4)Prof. Adesh Kumar Saini 5)Dr. Reena V. Saini 6)Dr. J. S. Sandhu 7)Prof. Amit Mittal
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Aditya Gupta 2)Prof. Vipin Saini 3)Manish Kumar 4)Prof. Adesh Kumar Saini 5)Dr. Reena V. Saini 6)Dr. J. S. Sandhu 7)Prof. Amit Mittal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Novel methods for detection of Atorvastatin Calcium(IR) Pellets and its standard test procedure 5 This invention relates to Novel methods for detection of Atorvastatin Calcium (IR) Pellets and its standard test procedure. Atorvastatin Calcium WSTD. about 50 mg in 100 ml volumetric flask dissolve with and Make up with Methanol further dilution 2 ml of this solution in 100 ml volumetric flask dilute with Buffer solution.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : ROBUST FACILE SYNTHESIS OF MANGIFERA INDICA BIOCHAR SUPPORTED AG/CU-ZRO2 HETERO-NANOSTRUCTURE FOR BIOMEDICAL APPLICATIONS

(51) International classification	:A61K0036220000, A61K0036580000, H01M0010052500, B22F0009240000, C10B0053020000	(71)Name of Applicant : 1)Prof. Adesh Kumar Saini Address of Applicant :Department of Biotechnology MMEC Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, India 133207 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Deepak Pathania
(33) Name of priority country	:NA	2)Prof. Adesh Kumar Saini
(86) International Application No	:NA	3)Dr. Reena V. Saini
Filing Date	:NA	4)Dr. Arush Sharma
(87) International Publication No	: NA	5)Sarita Kumari
(61) Patent of Addition to Application Number	:NA	6)Prof Bhuvanesh Gupta
Filing Date	:NA	7)Dr. Divya Mittal
(62) Divisional to Application Number	:NA	8)Dr. Gaurav Chandan
Filing Date	:NA	9)Rahul Thakur
		10)Dr. Vipin Saini

(57) Abstract :

Robust facile synthesis of Mangifera indica biochar supported Ag/Cu-ZrO₂ hetero-nanostructure for biomedical applications This invention relates to synthesis of Mangifera indica biochar supported 5 Ag/Cu-ZrO₂ hetero-nanostructure for biomedical applications. In this proposed invention, we have synthesized the biochar supported Ag/Cu-ZrO₂ (AB/AgCZ)nanostructure using leaf extract of Melia azedarach plant and this act as a capping agent.

No. of Pages : 19 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111023673 A

(19) INDIA

(22) Date of filing of Application :27/05/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : BOOK TRADING SYSTEM AND METHOD

(51) International classification :G06Q0040040000,
G06Q0030060000,
H04N0021488000,
H04N0021472200,
H04N0019567000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CHITKARA INNOVATION INCUBATOR FOUNDATION
Address of Applicant :SCO: 160-161, SECTOR – 9C,
MADHYA MARG, CHANDIGARH – 160009, INDIA
Chandigarh India
(72)Name of Inventor :
1)Shrey Kaliyar
2)Pragati Kharbanda
3)Anikeit Singla
4)Chirag Dhingra
5)Rubina Dutta

(57) Abstract :

Title: BOOK TRADING SYSTEM AND METHOD ABSTRACT A book trading system (100) comprising: a request initiation module (206) to enable one of, user of a second set of users to initiate a request associated with at least one of, books to be bought/exchanged/read/listen; a request processing module (208) to process the request for fetching available selling options and/or exchange options and/or electronic passes along with corresponding details from a database (126); a selection module (212) to enable the requested user of the second set of users to select one of, the available selling options and/or the exchange options and/or the electronic passes; and a cost generation module (214) to generate a cost based on an uploaded price of a selected selling option of the selling options and/or a selected exchange option of the exchange options and/or a selected electronic pass of the electronic passes.
Claims: 10; Figures: 5 Figure 1 is selected.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : EMERGENCY ASSISTANCE SYSTEM AND METHOD THEREOF

(51) International classification :H04W0004029000,
A61G0005100000,
H04W0004120000,
G08B0025010000,
B43K0029000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)CHITKARA INNOVATION INCUBATOR
FOUNDATION**Address of Applicant :SCO: 160-161, SECTOR – 9C,
MADHYA MARG, CHANDIGARH – 160009, INDIA
Chandigarh India

(72)Name of Inventor :

1)Pragati Kharbanda**2)Shrey Kaliyar****3)Poonam Jindal**

(57) Abstract :

Title: EMERGENCY ASSISTANCE SYSTEM AND METHOD THEREOF ABSTRACT An emergency assistance system (100) comprising: an emergency device (108), wherein the emergency device (108) comprises: a first input unit (110) to receive a first input from a wheelchair user; a second input unit (112) to receive a second input from the wheelchair user; a tracking unit (116) to track a location of the wheelchair user; a processing unit (120) configured to: receive the first input and/or the second input from the first input unit (110) and/or the second input unit (112); fetch an event corresponds to the first input and/or the second input from a number of events; activate a buzzer (114) to generate a sound to notify nearby users, upon fetching the event corresponds to the first input and share a tracked location to pre-defined contacts through a safety application (124) installed within a user computing device (104), upon fetching the event corresponds to the second input. Claims: 10; Figures: 7 Figure 1 is selected.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025698 A

(19) INDIA

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MICROEMULSION FORMULATION FOR MANAGEMENT OF GASTRIC ULCER COMPRISING LAFUTIDINE

(51) International classification	:A61K0009107000, A61K0009500000, A61K0047240000, A01N0025040000, C11D0001940000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Sukhbir
(33) Name of priority country	:NA	2)ARORA, Sandeep
(86) International Application No	:NA	3)SHARMA, Neelam
Filing Date	:NA	4)BEHL, Tapan
(87) International Publication No	: NA	5)ZAHOOOR, Ishrat
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to pharmaceutical formulations of Lafutidine. More specifically, the disclosure is directed to a microemulsion formulation for management of gastric ulcer comprising Lafutidine, an oil phase of virgin coconut oil, a surfactant and a co-surfactant.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025823 A

(19) INDIA

(22) Date of filing of Application :10/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ELECTROSTATIC FOG CANNON DUST SUPPRESSION SYSTEM AND A METHOD FOR SUPPRESSING DUST

(51) International classification	:F24F0006140000, B03C0003090000, B01D0053040000, B03C0003145000, B01D0047060000	(71) Name of Applicant : 1)Mr. Vimal Saini Address of Applicant :207-A, HSIIDC, Manakpur Industrial Estate, Phase-1, Yamunanagar, Haryana Haryana India (72) Name of Inventor : 1)Mr. Vimal Saini 2)Mr. Sushant Saini
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The embodiments herein provide a method for suppressing dust pollutants using an Electrostatic Fog Cannon Dust Suppression system. The method comprising supplying by a high-pressure pump, water from a water tank to a nozzle ring having one or more nozzles. Further, the method comprises atomising by the one or more nozzles, the water to fine fog particles. Further, the method comprises enabling by a control panel and an electrode, a high voltage DC supply near the one or more nozzles to electrically charge the fine fog particles upon passing the fine fog particles through an electrostatic field created with the high voltage DC supply. Further, the method comprises carrying by a cannon shape high air flow blower with a fan and an electric motor, the electrically charged fine fog particles to a long distance to suppress the dust pollutants present in air by way of adsorption process. FIG.1

No. of Pages : 17 No. of Claims : 8

(54) Title of the invention : AN INTERACTIVE ANTI-THEFT BACKPACK WITH IOT CONNECTIVITY

(51) International classification	:H04L0029080000, A45F0003040000, H04N0009870000, G01C0005060000, B60R0025100000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Komal Saxena
(33) Name of priority country	:NA	2)Apoorva Garg
(86) International Application No	:NA	3)Prof. Dr. Ajay Rana
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN INTERACTIVE ANTI-THEFT BACKPACK WITH IOT CONNECTIVITY The present invention relates to an interactive anti-theft backpack with IoT connectivity, which is comprised of a positioning unit to locate the location of the back having the function of acquiring all information and send to a user device; a display device with potential to sense the user oxygen level; a weight sensor to acquire the weight of the backpack; an accelerometer to measure the movements of a user; an altimeter to measure altitude by the way of air pressure decreases as altitude increases; a communication unit adapted as a wireless communication interface with remote wireless communication function enabling of wireless network communication with the user device; and a processor to control the communication unit to acquire all the input received corresponding to each of the sensor, and other measuring aforesaid external device. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026519 A

(19) INDIA

(22) Date of filing of Application :15/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A METHOD OF GENERATING BIOSYNTHETIC BIOMATERIAL (HYDROGEL) AND PLURIPOTENT STEM CELLS FOR OCULAR SURFACE/LACRIMAL GLAND/CORNEAL TISSUE REGENERATION

(51) International classification	:C12N0005079000, C12N0005074000, A61L0027520000, A61K0035300000, A61L0027380000	(71) Name of Applicant : 1)Amity University Address of Applicant :Amity Education Valley Gurugram, Manesar, Panchgaon, Haryana -122413 Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. VIMAL KISHOR SINGH
(33) Name of priority country	:NA	2)Dr. Yogesh Kumar Verma
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD OF GENERATING BIOSYNTHETIC BIOMATERIAL AND PLURIPOTENT STEM-CELLS FOR OCULAR SURFACE/LACRIMAL GLAND/CORNEAL TISSUE REGENERATION The present invention generally relates to a method of generating biosynthetic biomaterial (hydrogel) and pluripotent stem cells for ocular surface/lacrimal gland/corneal tissue regeneration. The present invention, the therapeutic potential of pluripotent stem cell-based regenerative therapies further provides reconstruction protocols for severe ocular surface diseases/disorders. Specifically, the present invention pertains to pharmaceutical components/formulation, and methods for the regeneration/ reconstruction or repair of ocular surface tissue/cells, such as Lacrimal gland and corneal limbal stem cell and also help in rejuvenating extra cellular matrix (ECM) niche microenvironment in these tissues and tissues using human pluripotent stem cells and biomaterials (hydrogel). Dated this 15th day of June 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: R. Adm. R.C. Kochhar (Retd.)

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : NOVEL PROCESS FOR MICROBIAL BIOTRANSFORMATION OF AGRI-HORTICULTURAL WASTE TO OBTAIN A HIGH VALUE NATURAL INSECTICIDE

(51) International classification	:A61Q0017020000, A01N0025340000, C12R0001110000, A62D0101430000, A01N0049000000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Prof. Dr. Dhan Prakash
(33) Name of priority country	:NA	2)Dr. Charu Gupta
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A PROCESS FOR MICROBIAL BIOTRANSFORMATION OF AGRI-HORTICULTURAL WASTE TO OBTAIN A HIGH VALUE NATURAL INSECTICIDE The present invention discloses a process for the preparation of natural insecticide by utilizing agri-horticulture waste residues. The product repels different types of insects, ticks, bedbugs and fleas and is lethal at high concentrations. It is effective against lice, sandflies, midges and other pests, some of which can carry lethal diseases, and has a pleasant aroma and a long lasting effect. The process involves isolation of sesquiterpene hydrocarbon from cheap sources of agriwaste residues (peel) and that can be efficiently converted into natural insect repellent through biotransformation using *Yarrowia lipolytica* in a cost effective two-step process. The end product is high value natural insect repellent, non-toxic, ecofriendly with no side effects. It has potential for application as additive for flavouring for food products, cosmetics, pharmaceuticals and insecticidal as repellent against mosquitoes, lice, bugs and ticks. The natural insect repellent can be used in the form of sprays and lotions.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : IMPROVEMENT TO PLASTIC HOLLOW EGGS

(51) International classification	:B29C0049040000, B41M0005440000, B41M0005420000, A21D0002360000, B65D0085320000	(71)Name of Applicant : 1)Sukhbir Singh Bachhal Address of Applicant :217, Lakewood RD East NW , Edmonton, Alberta, Canada , T6L3T6 Canada
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sukhbir Singh Bachhal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention is a improvement to the hollow plastic egg (Pat. No.4, 124, 135) made of two equal halves now with at least one hole in one of the halves also has at least one inner/outer threaded cap, plug or lid to cover the lid. You can mix some eggs and mix them with any flavor mix of your choice like salt and pepper, ham and cheese etc; You simply crack some eggs in a bowl with flavor mix of your choice and mix them together and then put the mix in the hollow plastic egg via through the hole in one of the halves and then cover the hole with threaded cap, plug or lid. Now you just boil, steam or microwave your eggs. There is rod in the bottom half of the egg for putting bite size pieces of veg and non veg on it and then fill with ·your egg mix and boil.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111027319 A

(19) INDIA

(22) Date of filing of Application :18/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NUMERAL NARROW-DOWN METHOD AND SYSTEM FOR ULTIMATE NETWORK INTERNAL SECURITY WRAPPING

(51) International classification	:H04L0012715000, H04L0012280000, G05B0013040000, F24F0011620000, G06T0015400000	(71)Name of Applicant : 1)Amity University Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Swapnesh Taterh
(32) Priority Date	:NA	2)Nitheesh Murugan Kaliyamurthy
(33) Name of priority country	:NA	3)Prof. (Dr.) Suresh Shanmugasundaram
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A NUMERAL NARROW-DOWN METHOD AND SYSTEM FOR ULTIMATE NETWORK INTERNAL SECURITY WRAPPING The present invention relates to a numeral narrow-down method and system for ultimate network internal security wrapping. The present invention is to develop a Software Defined Networking Architecture, which is based on a decoupled design separating the control and the data plane from the forwarding devices extending the visibility, feasibility and control over the network in a more efficient and effective approach. The decoupled architecture ensures the communication between one another with Application Program Interfaces. The above drawing gives the overview of SDN architecture.

No. of Pages : 17 No. of Claims : 8

(54) Title of the invention : A METHOD FOR ENHANCING MICROALGAE BIOMASS AND LIPID YIELD USING G-C3N4-TIO2 FOR BIODIESEL PRODUCTION

(51) International classification	:C12N0001120000, G01N0021030000, G01N0021350000, G01N0021050000, G07D0007004300	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Monika Prakash Rai
(33) Name of priority country	:NA	2)Ms. Reetu
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD FOR ENHANCING MICROALGAE BIOMASS AND LIPID YIELD USING G-C3N4-TIO2 FOR BIODIESEL PRODUCTION The present invention relates to a method for enhancing Microalgae Biomass and Lipid Yield using g-C3N4-TiO2 for Biodiesel Production. The present invention reports, in which the microalgae cultures were supplemented with 5 mg/L, 50 mg/L, 100 mg/L, 150 mg/L and 200 mg/L of g-C3N4-TiO2. However, the highest enhancement in biomass was achieved, when the microalgae culture was treated with a 50 mg/L concentration of the nanocomposite, an increase of 1.5 fold was observed in the biomass. Although an increase in the lipid of nearly 1.9 folds was reported with 100 mg/L of the synthesized nanocomposite. The nanocomposite has been characterised by Scanning electron microscope (SEM), X-ray diffraction (XRD), Fourier transform infra-red spectroscopy (FTIR). For the lipid estimation, a nile red based fluorescence spectrophotometric analysis was done with an excitation and emission wavelength of 530 nm and 575 nm. Accompanied Drawing [FIG. 1]

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111028746 A

(19) INDIA

(22) Date of filing of Application :25/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN IMPACT ENERGY ABSORPTION ASSEMBLY FOR A FOUR WHEELER VEHICLE

(51) International classification	:B60R0019340000, B60R0019180000, B60N0002420000, B60N0002427000, B60R0019200000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dosawada Pavan Sai
(33) Name of priority country	:NA	2)Rohit Sharma
(86) International Application No	:NA	3)Dr. Dilbagh Panchal
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN IMPACT ENERGY ABSORPTION ASSEMBLY FOR A FOUR WHEELER VEHICLE The present invention relates to an impact energy absorption assembly for a four wheeler vehicle. The present invention discloses a crushing of composites mechanism. In case of vehicle frontal impacts induces damage to the automobile and also to the passengers. In the present proposal, an impact energy absorption mechanism is proposed where the crushing of composites principle is used. With the help of vehicle motion sensors, actuators and high-speed pumps, vehicle's bumper firstly hit the forward obstacles before the actual collision occurs and the bumpers on its way back will crush the composites, which will observe the impact energy. Thus, the complete mechanism will tend to reduce the damage caused due to sudden and heavy impact energies. Accompanied Drawing [FIG. 1]

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111025972 A

(19) INDIA

(22) Date of filing of Application :10/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING RECOMMENDATIONS

(51) International classification	:H04L0029080000, G06Q0050000000, G06Q0030060000, H04W0004210000, G01C0021340000	(71)Name of Applicant : 1)SOCIOLEGAL PRIVATE LIMITED Address of Applicant :A-36/2 S/F, GALI NO-2 MAIN ROAD, BRAHAM PURI BEHIND POOJA PUBLIC SCHOOL, DELHI, North East, Delhi, India, 110053 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Devi, Krishna
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR GENERATING RECOMMENDATIONS A method and system disclosed for generating at least one recommendation including, obtaining at least one input from at least a user, and based on the at least one input, classifying the user as at least a first user and at least a second user. Obtaining a first data and a second data from the at least one of the first user and from the at least one of the second user. Determining a first relation and a second relation between the at least one of the first user and the at least one of the second user based on the first data and on the second data, respectively. Generating the at least one recommendation for the at least one of the first user based on at least one of the first and the second relation. To be published with Figure 1

No. of Pages : 30 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026103 A

(19) INDIA

(22) Date of filing of Application :11/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE IN AUTOMATED VEHICLES

(51) International classification	:B60R0001000000, G06K0009000000, G07C0009000000, G07C0005080000, B60Q0009000000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Deepak Kumar
(33) Name of priority country	:NA	2)Raghav Sharma
(86) International Application No	:NA	3)Ajay Rana
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM FOR IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE INTERFACES IN AUTOMATED VEHICLES The present invention relates to a system for implementation of artificial intelligence interfaces in automated vehicles, The system includes, but not limited to, a plurality of sensors, cameras and radars on the exterior along with Object detection, voice processing on the interior of the vehicle; a processing unit to receive input from all aforesaid sensors, and devices to guide the vehicle and driver when and what it needs to activate in the vehicle. Accompanied Drawing [FIG. 1]

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026260 A

(19) INDIA

(22) Date of filing of Application :12/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AMINO ACIDS AND PEPTIDE CONJUGATES OF DOPAMINE

(51) International classification	:C07K0005065000, C07D0405120000, A61K0047540000, G01N0024080000, G01N0033940000	(71)Name of Applicant : 1)Prof. (Dr.)Vishal Dubey Address of Applicant :Director, Naraina Group of Institutions, Faculty of Pharmacy, Panki, Gangaganj, Kanpur, Pin Code: 208020 Uttar Pradesh Uttar Pradesh India 2)Ms.Megha Tiwari 3)Abhinav Prasoon Mishra 4)Dr. Arpit Katiyar
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Prof. (Dr.)Vishal Dubey 2)Ms.Megha Tiwari 3)Abhinav Prasoon Mishra 4)Dr. Arpit Katiyar
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the synthesis of series of novel amino acids and dipeptides conjugates of dopamine. Apart from this we also synthesized highly lipophilic conjugates of dopamine by increasing the number of carbon chain between amino-carboxylic group. It was an attempt to enhance the bioavailability of dopamine by increasing its permeability through blood brain barrier. The purity of all the prepared compounds were checked by TLC and elemental analyses. The spectroscopical data (UV, IR, ¹H-NMR, MS and elemental analysis) of all the synthesized compounds were found in agreement with assigned molecular structures

No. of Pages : 25 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111028489 A

(19) INDIA

(22) Date of filing of Application :24/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : IDENTIFICATION AND STANDARDIZATION OF BHRINRAJ

(51) International classification	:G01N0033569000, G06Q0010060000, G06Q0050040000, G01N0030900000, G01N0030720000	(71)Name of Applicant : 1)Prof.(Dr.) Vishal Dubey Address of Applicant :Director, Naraina Group of Institutions, Faculty of Pharmacy, Gangaganj Colony, Panki, Kanpur, Uttar Pradesh, Pincode:208020. Uttar Pradesh India 2)Ms. Megha Tiwari 3)Shainda Laeeq 4)Mr. Harish Chandra Yadav
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Prof.(Dr.) Vishal Dubey 2)Ms. Megha Tiwari 3)Shainda Laeeq 4)Mr. Harish Chandra Yadav
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the identification and standardization of 'Bhringraj' and to lay down new pharmacopoeial standards to be followed in tradition preparation of oil with batch to batch preparations. The obtained results act as a quality control method for characterization of samples in industry to check their uniformity. So that, the manufacturers can utilize them for identification and selection of the raw material for drug production

No. of Pages : 17 No. of Claims : 1

(54) Title of the invention : A METHOD FOR RAPID REMOVAL OF DICLOFENAC SODIUM FROM AQUEOUS SOLUTION BY NITROGEN DOPED GRAPHENE NANOSHEETS

(51) International classification	:A61K0031196000, C02F0001280000, B01J0020280000, B82Y0030000000, B01J0035000000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Jyoti Sharma
(33) Name of priority country	:NA	2)Dr. Sandip Chakrabarti
(86) International Application No	:NA	3)Dr. Subhasha Nigam
Filing Date	:NA	4)Dr. Monika Joshi
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR RAPID REMOVAL OF DICLOFENAC SODIUM FROM AQUEOUS SOLUTION BY NITROGEN DOPED GRAPHENE NANOSHEETS The present invention relates to a method for rapid removal of diclofenac sodium from aqueous solution by nitrogen doped graphene nanosheets. The graphene nanosheets has been synthesized hydrothermal by a facile one step process. The method reports a low-cost, highly porous NGS from carbon nanosheets (CNS) at low temperature. The CNS was produced via bottom-up one-step solvothermal synthesis using inexpensive chemical reagents such as glycerol, concentrated sulfuric acid and melamine. This resulted in the formation of high yield, thin-layered CNS in a very short time having high adsorption capacity. These nanosheets were further reduced through hydrothermal reduction to impart crystallinity enhance the adsorption efficiency. The resultant NGS was characterized by scanning electron microscopy (SEM), x-ray diffraction (XRD), and Fourier transform infrared (FTIR). Dated this 6th day of July, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026853 A

(19) INDIA

(22) Date of filing of Application :16/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM TO MEASURE ROLLING LOAD BEARING CAPACITY OF THE ROAD

(51) International classification	:E02D0029140000, B09C0001000000, B60L0050160000, B21B0037580000, B60B0033000000	(71)Name of Applicant : 1)Amity University Address of Applicant :Amity University, E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SATYAJIT NATH
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM TO MEASURE ROLLING LOAD BEARING CAPACITY OF THE ROAD The present invention relates to a system to measure rolling load bearing capacity of the road. The system is comprised of, but not limited to, a set of mobile references, a mobile load and some transducer module attached with each of the units. This system will plot the reduced level of the road before and after the rolling load passes over the road and thus depression curve can be obtained with the help of digital platform attached with the system. The mobile reference will act as a benchmark for the plotting of precise depression curve. Accompanied drawing [FIG. 1]

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111030686 A

(19) INDIA

(22) Date of filing of Application :08/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : REMOVAL OF CADMIUM USING PROBIOTIC GLYCOLIPOPEPTIDES AND METHOD THEREOF

(51) International classification	:A61K0009000000, A61K0036886000, A23L0033135000, A61K0035747000, A61K0036896000	(71)Name of Applicant : 1)Amity University Address of Applicant :Amity University, E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Deepansh Sharma
(32) Priority Date	:NA	2)Dr. Deepti Singh
(33) Name of priority country	:NA	3)Ms. Vikrant Sharma
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT REMOVAL OF CADMIUM USING PROBIOTIC GLYCOLIPOPEPTIDES AND METHOD THEREOF The present invention relates to removal of Cadmium using probiotic Glycolipopeptides and method thereof. The present invention is intended to remove the cadmium concentration from the spinach surface using a probiotic glycolipopeptides in aloe gel. These glycolipopeptides were produced and recovered using non-solvent approach from Probiotic L. pentosus. The present study has various invention claims and novelty clauses such as preparation of base using aloe gel, removal of cadmium up to 97 % in soaking method, non-chemical recovery methods and thereof. The present study also able to demonstrate the reduction of post-harvest loses in form physical and microbiological spoilages. Present formulation is stable at room temperature and effective with same degree up to 3 months of storage. It was also evident that, such formulation also contributed to minimize the use of excess water during washing and splashing.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111030687 A

(19) INDIA

(22) Date of filing of Application :08/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR EARLY DETECTION OF PULMONARY ILLNESS BY AUDIO ANALYSIS

(51) International classification	:A61B0007000000, A61B0005000000, A61B0007020000, A61B0005080000, A61B0005160000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SUMIT BHARDWAJ
(33) Name of priority country	:NA	2)SHUBHAM VATS
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM AND METHOD FOR EARLY DETECTION OF PULMONARY ILLNESS BY AUDIO ANALYSIS The present invention relates to a system for early detection of pulmonary illness by audio analysis. The present invention discloses a methodology of signal, sound and audio processing and image analysis. Normal sound samples of healthy human body would be taken in consideration and then be compared with the samples of the person whom it is tested on, different levels or frequency range of sounds/body noises that a person makes differs in different analysis, for example 'crackles' these are high pitched breath sounds made when the small air sacs get filled with fluid and the person may have pneumonia or a heart failure. This not only work as an early warning system but also can reduce human workload and can deplete human error while using a stethoscope for the same.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111030907 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A VARIABLE-FREQUENCY DRIVE VFD MICRO CONTROLLER SWITCH FOR MINI WATER SUPPLY SYSTEM

(51) International classification	:A01G0025160000, E03B0001040000, F24F0005000000, G05D0007060000, E03B0007070000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Himdweep Khurana
(33) Name of priority country	:NA	2)Inderdeep Singh Khurana
(86) International Application No	:NA	3)Ajay Rana
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A VARIABLE-FREQUENCY DRIVE VFD MICRO CONTROLLER SWITCH FOR MINI WATER SUPPLY SYSTEM The present invention relates to a variable-frequency drive VFD Micro Controller Switch for mini water supply system. The system is comprised of, but not limited to, a water level sensor to check the water level of the tank; a microcontroller connected with the variable-frequency drive VFD for automated on/off; a solar power unit for providing power supply to the whole electronic hardware and components. In this present invention we have come up with a way to switch on VFD when water level in the tank is half or less and switch it off when water tank is full. With this mechanism now one will not have to manually switch VFD on or switch VFD off. The water controller will check the water level in the tank and based upon the water level it will turn VFD on or VFD off in solar based water pumping mini distribution system. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111027593 A

(19) INDIA

(22) Date of filing of Application :19/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND A PROCESS FOR SIMULTANEOUS REMOVAL OF AMMONIACAL NITROGEN AND OXIDIZABLE CARBON (BIO-SAC) FROM WASTEWATERS

(51) International classification	:C02F0003300000, C02F0003340000, C02F0009000000, C02F0003120000, C02F0003060000	(71)Name of Applicant : 1)Council of Scientific and Industrial Research Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg, New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Anupoju Gangagni Rao
(32) Priority Date	:NA	2)Kranti Kuruti
(33) Name of priority country	:NA	3)Sameena Begum
(86) International Application No	:NA	4)Sudharshan Juntupally
Filing Date	:NA	5)Arelli Vijayalakshmi
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM AND A PROCESS FOR SIMULTANEOUS REMOVAL OF AMMONIACAL NITROGEN AND OXIDIZABLE CARBON (BIO-SAC) FROM WASTEWATERS Ammoniacal nitrogen (AN) is one of the most hazardous pollutants discharged into water receptors through industrial effluents along with COD. Chemical and allied industry where this problem is severe is scouting for cost effective solution in meeting the standards for ammoniacal nitrogen of 50 ppm. The present invention provides a sequential biological process (Bio-SAC) for the simultaneous removal of COD and AN from industrial wastewaters. In the developed process, initially free ammonia from wastewater is stripped off using counter current air stripper and subsequently wastewater is subjected to a sequence of bioprocesses (aerobic, anoxic and anaerobic) with specially developed microbial consortia at optimized conditions (hydraulic residence time (HRT) of 8.5 hrs, pH of 7.0, recycle ratio of 1:1). Removal efficiency of 60 to 70 % in terms of AN and COD is obtained with the process from the initial levels of 250 to 500 mg/L AN & 40,000 to 45,000 mg/L of COD.

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111027640 A

(19) INDIA

(22) Date of filing of Application :21/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A VIDEO LARYNGOSCOPE WITH OXYGEN DELIVERY PORT FOR APNEIC OXYGENATION

(51) International classification	:A61B0001267000, A61B0001000000, A61B0005145500, A61M0016040000, A61M0016100000	(71) Name of Applicant : 1)ERA'S LUCKNOW MEDICAL COLLEGE & HOSPITAL Address of Applicant :Hardoi Road, Sarfarazganj, Lucknow 226003 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Mohd Mustahsin
(33) Name of priority country	:NA	2)Dr Farzana Mahdi
(86) International Application No	:NA	3)Mr Zaw Ali Khan
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Laryngoscope is a tool which is generally used during general anesthesia, surgical procedures around the larynx, and resuscitation and during the process Oxygen saturation may fall in critically ill patients. Present invention is a Oxy-video Laryngoscope which has oxygen channel integrated with the borescope camera and can deliver oxygen up to 15L/min to the upper airway during intubation and thus prevent desaturation and prolong apnea time.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : AIR DISINFECTION AND PURIFICATION SYSTEM FOR INDOOR APPLICATIONS

(51) International classification	:A61L0009200000, B01D0053860000, B01J0019180000, C02F0001320000, A61L0009220000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860) Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg, New Delhi, 110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Nagesh Babu Balam
(33) Name of priority country	:NA	2)Tabish Alam
(86) International Application No	:NA	3)Ashok Kumar
Filing Date	:NA	4)Nishant Raj Kapoor
(87) International Publication No	: NA	5)Chandan Swaroop Meena
(61) Patent of Addition to Application Number	:NA	6)Kishor Sitaram Kulkarni
Filing Date	:NA	7)Harry Garg
(62) Divisional to Application Number	:NA	8)Supankar Das
Filing Date	:NA	

(57) Abstract :

ABSTRACT AIR DISINFECTION AND PURIFICATION SYSTEM FOR INDOOR APPLICATIONS An air disinfection and purification system is developed to disinfect the air from various micro-organisms as well as purify the air from various air pollutants inside indoor spaces. The system consists of an outer frame, a co-axial cylindrical structure and base plate, wherein the fan draws the supply air from the inlet ports on the outer frame, and then from the tangential inlet ports into the co-axial cylindrical structure, and finally delivers purified and disinfected air into the indoor space. The tangential inlet ports make the supply air to swirl inside the co-axial cylindrical structure increasing the retention time of supply air flow inside the device. The UV chamber formed due to radial curvature walls of the co-axial cylindrical structure promote multiple UV reflections and thus significantly increasing the UV dosage inside the UV-C chamber. Similarly, in some other embodiments, the UV-C chamber is also converted as Photo-catalytic reactivity chamber where in, the external walls of the UV-C chamber are provided with substrates coated with photo catalytic oxidation materials. The reaction efficiency of the photo catalytic reaction chamber is increased due to increased retention time, centrifugal force exerted by supply air on the substrate and enhanced UV-C dosage and thus significantly improving the efficiency of air disinfection and purification system.

No. of Pages : 40 No. of Claims : 10

(54) Title of the invention : A SYSTEM OF HEART RATE VARIABILITY BASED FEATURE SELECTION FOR CONGESTIVE HEART FAILURE AND NORMAL SINUS RHYTHM FOR PRESAGING OF HEART DISEASE USING MACHINE LEARNING

<p>(51) International classification :A61B0005024000, G06K0009620000, A61B0005000000, G06K0009000000, A61B0005040200</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number:NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)RITU AGGARWAL Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR DEEMED TO BE UNIVERSITY, MULLANA, AMBALA, HARYANA, INDIA, 133207 Haryana India 2)SUNEET KUMAR</p> <p>(72)Name of Inventor : 1)RITU AGGARWAL 2)SUNEET KUMAR</p>
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(57) Abstract :

A SYSTEM OF HEART RATE VARIABILITY BASED FEATURE SELECTION FOR CONGESTIVE HEART FAILURE AND NORMAL SINUS RHYTHM FOR PRESAGING OF HEART DISEASE USING MACHINE LEARNING The heart rate variability (HRV) for subjects of Congestive heart rate failure and normal sinus rhythm is structure to be subjected as turbulence studies. When checking the scaling property in respect to NSR subjects, it indicates the presence of measured heartbeat control mechanisms, and concerning CHF subjects found the scaling property is partially lost. So that the absence of scaling properties indicates the heart rate variations. Various physiological factors regularizing the normal rhythm of the heart. It is observing the methods for noticing the interaction between the thoughtful and parasympathetic sensory systems. The versatility of the heart to outside also inner boosts is reflecting by the pulse changeability (HRV). Diminished HRV can be an indicator of negative cardiovascular results. Given the Time domain, frequency domain, and nonlinear, non-stationary, and profoundly complex elements of the controlling component of the cardiovascular framework, straight HRV measures have restricted the ability to precisely investigate the basic elements. In this examination, we propose a robotized framework to dissect HRV flags by feature selection methods that highlight to catch transient, phantom, and complex elements and the best method. This paper using HRV features and the dataset of HRV for 419 instances to be taken and feature selection methods are to be used such as filter method, Wrapper method, the embedded method to select the relevant feature set. This paper implementation is done by using a Machine learning classifier, for example, Random forest (RF), KNN, support vector machine (SVM), Naïve Bayes (NB), Decision tree (DT) were utilized to assess the identification execution. The experiment's result is best for filtering method in requisites of Accuracy, F-measure. The resulting performance on the data available is better than previous feature selection models that were used. The current work is implemented on the Python jupyter notebook, it enables the evaluation and provides excellent performance. The results show that the proposed method achieves better performance. The results for current work the filtering methods are considered as the best method for feature selection the average accuracy for without_FS is 86.3492064, filtering method 95.3968254, Wrapper method 94.9206348, and embedded method 93.8095236., the average score of F measure for without_FS is 83.7949952, Filtering Method 95.2867576, Wrapper Method 94.8161982, Embedded Method 93.4696154, the average score is AUC for without_FS 85.2650446, by Filtering method is 95.0550574, for Wrapper method 94.6734954, for Embedded Method 93.0729834., the basic approach of feature extraction is also shown for this current work.

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111030432 A

(19) INDIA

(22) Date of filing of Application :07/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PROCESS FOR PRODUCTION OF GELATIN FROM FISH SKIN AND BONES

(51) International classification	:C07K0014780000, C09H0003000000, A23L0029281000, G11C0013000000, A23J0001100000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Nutan Kaushik
(33) Name of priority country	:NA	2)Ms. Khushboo
(86) International Application No	:NA	3)Ms. Asha Kumari
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A PROCESS FOR PRODUCTION OF GELATIN FROM FISH SKIN AND BONES The present invention relates to a process for production of gelatin from fish skin and bones. The present invention discloses a Gelatin extraction from industrial sample of Pink Perch skin and bones, and further, optimization of gelatin extraction is performed by Response Surface Methodology (RSM) conditions obtained. The effect of pH (X1), Temperature (X2) and Time (X3) on the yield and L-hydroxyproline from skin and bones are evaluated by RSM. The RSM produced 17 random runs in which 5 replicates as a central point to decrease unexpected variations. Accompanied Drawing [FIG. 1] Dated this 7th day of July, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111031774 A

(19) INDIA

(22) Date of filing of Application :15/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : MACHINE LEARNING BASED CROP YIELD PREDICTION SYSTEM WITH CLOUD NETWORK CONNECTIVITY

(51) International classification	:G06N0020000000, G06Q0010040000, G06Q0050020000, G06N0003080000, G06N0007000000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Jitendra Singh Jadon
(33) Name of priority country	:NA	2)Sushmita Sengupta
(86) International Application No	:NA	3)Pranay Malik
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MACHINE LEARNING BASED CROP YIELD PREDICTION SYSTEM WITH CLOUD NETWORK CONNECTIVITY The present invention relates to a Machine Learning based crop yield prediction system with Cloud Network Connectivity. The present invention is aimed to develop a system on soil properties to predict fertility and crop yield which has been performed using machine learning algorithms. Machine learning is widely being used in the field of agriculture nowadays. The classification and regression algorithms can be used in yield prediction. Accompanied Drawing [Table 1] Dated this 15th day of July, 2022 Signature: Name: Dr. B. L. Arya Applicant Name: Amity University

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : EMBEDDED SMART SENSING DEVICE AND METHOD FOR MEASURING EARLY STAGE CONCRETE HYDRATION

(51) International classification	:G01N0033380000, G01N0029220000, A61B0005000000, H02N0002180000, G01N0025720000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860) Address of Applicant :House No. Anusandhan Bhawan, 2 Rafi Marg Street Rafi Marg City New Delhi State Delhi Country India Pin code 110 001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Soju J. Alexander
(33) Name of priority country	:NA	2)P. Sumathi
(86) International Application No	:NA	3)C. Bharathi Priya
Filing Date	:NA	4)R. Sreekala
(87) International Publication No	: NA	5)J. Prakashvel
(61) Patent of Addition to Application Number	:NA	6)N. Gopalakrishnan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract EMBEDDED SMART SENSING DEVICE AND METHOD FOR MEASURING EARLY STAGE CONCRETE HYDRATION A concrete embeddable sensor is developed using piezoelectric patches for tracking the dormant period time lag and time of strength development in a cement hydration phase. The need to resort to expensive calorimetry or other destructive testing methods can be avoided. A methodology/technique using electromechanical admittance peaks, is developed for bifurcating and tracking the free-free flexural and axial modes of a thin plate pasted with piezo patches on the top and bottom surfaces. Piezo patches pasted on top and bottom of steel plate can be designed in such a way that frequency of interest can be clearly generated from the coupled piezo+adhesive+plate system. A unique strategy is adopted, bifurcating the dynamics of the system into a free-free axially vibrating system and a free-free flexural vibrating system. The validation process of the developed system is judiciously carried out such that, the expected results are theoretically validated and on expected direction.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032921 A

(19) INDIA

(22) Date of filing of Application :22/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A TIRE BEAD OPENER ASSEMBLY

(51) International classification	:B60C0025020000, B60C0025130000, B60C0025125000, B60C0023040000, B60C0025040000	(71)Name of Applicant : 1)Amity University Address of Applicant :Amity University, E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Manoj H Devare
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A TIRE BEAD OPENER ASSEMBLY The present invention relates to a tire bead opener assembly. The present invention is developed and designed for opening the car tire from the Rim of the wheel. A bead breaking tool for use with a car tire to separate it from a Rim. The tool mounted in an operating position on a wheel rim. The tool having a base arrangement which lays the tire. The Tool is hand Operated, with a single person. There invention is cost effective and can be used by worker at garage. Accompanied Drawing [FIG. 1] Dated this 22nd day of July, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Prof. Dr. Kamal Kant Dwivedi

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : A NOVEL GLUELESS TECHNIQUE TO HOLD A MIMO DIELECTRIC RESONATOR ANTENNA ONTO SUBSTRATE WITH ADDITIONAL PERFORMANCE IMPROVEMENT

(51) International classification	:H01Q0009040000, H01L0029780000, H01P0007100000, H01Q0001500000, B68G0015000000	(71)Name of Applicant : 1)DR. SUMER SINGH SINGHWAL Address of Applicant :STREET NO.-12, INDIAN COLONY, GOHANA ROAD, SONIPAT-131001 HARYANA Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. SUMER SINGH SINGHWAL
(32) Priority Date	:NA	2)PROF. BINOD KUMAR KANAUIA
(33) Name of priority country	:NA	3)ASSO. PROF. LADISLAU MATEKOVITS
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

.. A glueless, compact and novel dual port multiple input multiple output (MIMO) dielectric resonator antenna (DRA) is proposed for X- band applications. A prototype has been fabricated. . . . on Rogers RT Duroid substrate of thickness 0.8 mm and relative dielectric constant of 2.33 with . . . Eccostock made DRA relative dielectric constant of 10, placed over the substrate. without glue with a novel technique to hold the DRA onto the substrate. The DRA is excited by aperture coupled feeds maintaining symmetry between both the ports. Four cylindrical copper rods with four strips . . . have been used to fix the DRA on the substrate and provide additional mechanical stability . . . Eight copper strips are used to provide impedance matching and impedance bandwidth (IBW) widening. . The simulated IBW of dual port DRA is 10.37% (8.2-9.02 GHz)

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : AN IOT BASED VOICE-CONTROLLED MOTORIZED WHEELCHAIR

(51) International classification	:A61G0005100000, G10L0015220000, A61G0005040000, G06F0003160000, G10L0015260000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Laxmi Ahuja
(33) Name of priority country	:NA	2)Ms. Honey Goel
(86) International Application No	:NA	3)Dr. Ajay Rana
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT An IoT Based Voice-Controlled Motorized Wheelchair The present invention relates to a system for controlling the operation of power-driven seating equipment and in particular, relates to the movement of wheelchair by voice commands for the person having spine problems and disabled people. The system for controlling the operation of wheelchair comprises a voice and language detector, the battery, motor to drive wheels, the Bluetooth device with internet connectivity, DC motor, an ultrasonic sensor, and the voice-based AI-powered digital assistant. The user connects the wheelchair system with android phone Bluetooth and internet connection to detect language and desired output can be received. The voice-controlled wheelchair has a control system having a plurality of modes of operation and commands for moving the wheelchair are executed. The voice commands are entered by a microphone. The voice command are analyze and understood and then the voice-based AI-powered digital assistant reacts and gives movement results. Accompanied Drawing [FIG. 1] Dated this 13th day of July, 2022 Signature: Name: Dr. B. L. Arya Applicant Name: Amity University

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111031351 A

(19) INDIA

(22) Date of filing of Application :13/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A DEVICE FOR ORAL CANCER EARLY DETECTION

(51) International classification	:G06K0009000000, G06K0009620000, G01N0033574000, A61B0005000000, G06K0009200000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Neel Mani
(33) Name of priority country	:NA	2)Dr. Dhruv Kumar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A DEVICE FOR ORAL CANCER EARLY DETECTION The present invention relates to a device for oral cancer early detection. The device is comprised of, but not limited to, a processing unit adapted to receive data input in the form of captured images from a scanning device. The scanning device is composed of high-resolution camera to identify the object; using deep learning model and image processing techniques; classifying the images as per the mentioned objectives; extraction of relevant information using machine learning algorithm and image processing for early detection oral cancer. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111031467 A

(19) INDIA

(22) Date of filing of Application :13/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : RECTAL DRUG DELIVERY SYSTEM USING HERBAL

(51) International classification	:A61K0009000000, A61K0009020000, A61K0031704800, A61K0031650000, A01N0043900000	(71)Name of Applicant : 1)Dr Amit Kumar Verma Address of Applicant :Faculty Dept of Pharmacy, MJP Rohilkhand University, Bareilly,Pincode: 243006, UP India. Uttar Pradesh India 2)Mrs Preeti Mishra 3)Dr Arvind Kumar Srivastava 4)Mr. Deepak Tripathi 5)Mrs.Neelima Tripathi 6)Mr. Amit Kumar
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr Amit Kumar Verma 2)Mrs Preeti Mishra 3)Dr Arvind Kumar Srivastava 4)Mr. Deepak Tripathi 5)Mrs.Neelima Tripathi 6)Mr. Amit Kumar
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the preparation and evaluation of herbal suppositories in the treatment of haemorrhoids. Haemorrhoids are swollen and inflamed veins in the rectum and anus that cause discomfort and bleeding. Rectal delivery of drugs promotes rapid absorption and high bioavailability, with a subsequent immediate onset of pharmacological effect. The aim of this research was to introduce rapid onset of action of doxycycline along with the mixture of herbal actives in relief of pain and inflammation in treatment of haemorrhoids. Herbal actives used in the present invention are azadirachtin, spathulenol, quercetin, astragalin, abutilin A, piperine.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111030908 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYNTHESIS OF MANNICH BASES OF PIOGLITAZONE AND METHOD THEREOF

(51) International classification	:A61K0031443900, C07K0001000000, C07D0401120000, G01N0033180000, G01N0024080000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Archana Sharma
(33) Name of priority country	:NA	2)Dr.Tanveer Naved
(86) International Application No	:NA	3)Dr. Ramit Kapoor
Filing Date	:NA	4)Dr. Abul Kalam Najmi
(87) International Publication No	: NA	5)Dr. Pooja Mittal
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD FOR SYNTHESIS OF MANNICH BASES OF PIOGLITAZONE The present invention relates to the synthesis of Mannich bases of Pioglitazone, which is synthesized viz. 1-methyl-1-phenyl-1,2,3,4-tetrahydroIsoquinoline (76c) and 1,2,3,4-TetrahydroIsoquinoline (76e) and were confirmed by various spectroscopic techniques like Infrared spectroscopy, Nuclear Magnetic Resonance (1H NMR) and mass spectroscopy. The synthesized compounds were evaluated for acute toxicity studies and further evaluated for their antidiabetic and CNS depressant potential. The molecular weight of the synthesized compounds was found to be 591.76 g/mol and 501.64 g/mol respectively. The percentage yield was found to be 65.6 % and 75.6 % respectively. Acute toxicity studies were performed according to the OECD protocols and changes in body weight of the rats, mortality and changes in behavior patterns were observed for the various groups. Further the antidiabetic potential of the synthesized compounds was evaluated by Streptozotocin induced diabetes method. Accompanied Drawing [FIG. 1] Dated this 8th day of July, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111031005 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A METHOD AND SYSTEM FOR PRODUCING BIODIESEL

(51) International classification	:C10L0001020000, C11C0003000000, B01F0003120000, B01F0005100000, B01F0015020000	(71)Name of Applicant : 1)Mrs. Yogesh singh Address of Applicant :Anchan petroleum limited, 308, Agrawal Tower, Plot-2, Sector-5, Dwarka, New Delhi-110075 Delhi India 2)Mr. Vikas Rathore
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ankit Patil
(33) Name of priority country	:NA	2)Dr. Sushant Satputaley
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention generally relates to a method and system for producing biodiesel. The system includes a methanol mixing tank configured for mixing methanol with catalyst using a portable stirrer, wherein methanol is pumped from a methanol storage tank to the methanol mixing tank via a pump; a reactor equipped with a hot water jacket in continuation with the methanol mixing tank for mixing methanol with oil by employing a pump at 50-52degree temperature, wherein the oil is received from an oil tank in a controlled manner through a valve; and a plurality of separating tanks configured with water and steering for separating glycerol, waste water and biodiesel which is further transferred in separate movable tanks for collecting separated glycerol, waste water and biodiesel, wherein multiple times reactions are performed after transferring reaction oil to separating tanks using the pump.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032421 A

(19) INDIA

(22) Date of filing of Application :19/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SINGLE PROCESS FOR SEQUENTIALLY EXTRACTING PRODUCTS FROM GREEN TEA LEAVES

(51) International classification	:A61K0036820000, A23F0003060000, A23L0033105000, A61K0008970000, G01N0033500000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg New Delhi 110001 India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mohit Sharma
(33) Name of priority country	:NA	2)Mehak Sharma
(86) International Application No	:NA	3)Vivesh Sood
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SINGLE STEP PROCESS FOR SEQUENTIALLY EXTRACTING PRODUCTS FROM GREEN TEA LEAVES The present invention discloses an integrated, cost effective process for simultaneous isolation and purification of wax, chlorophyll, Catechin from fresh green tea (Camellia sinensis) leaves. Further, process for isolation and purification of caffeine from the residual tea leaves left after the extraction of above said products. Optimization of various process parameters has also been done. In addition to this the quality of products was also evaluated on the basis of TLC, FTIR, HPLC, GC-MS, method.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : CARYOTA URENS AND HYOPHORBE LAGENICAULIS AS NUTRACEUTICAL IN CISPLATIN AND GENTAMYCIN INDUCED NEPHROTOXICITY

<p>(51) International classification :A61K0033240000, A23L0033105000, A61K0031715000, A61K0031352000, A61K0036480000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Avijit Mazumder Address of Applicant :Noida Institute of Engineering and Technology, Pharmacy Institute, 19 Knowledge Park-2, Greater Noida, U.P., 201306 Uttar Pradesh India</p> <p>2)Dr. Saumya Das 3)Dr. Rupa Mazumder 4)Dr. Manas Kumar Das 5)Ms Anamika Gautam 6)Dr. Rakhi Mishra 7)Ms. Swati Yadav</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Avijit Mazumder 2)Dr. Saumya Das 3)Dr. Rupa Mazumder 4)Dr. Manas Kumar Das 5)Ms Anamika Gautam 6)Dr. Rakhi Mishra 7)Ms. Swati Yadav</p>
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(57) Abstract :

The present invention relates to the Evaluation of actives from Caryota urens and Hyophorbe lagenicaulis as nutraceutical in cisplatin and gentamycin induced nephrotoxicity. The importance of nutraceuticals had received much attention in recent times because of their providing better immunity, protection from chronic diseases and safety compared to conventional medicines. Caryota urens and Hyophorbe lagenicaulis both plants species are extensively distributed in India. Whereas the in vitro antioxidant activity of Caryota urens flower phyto chemical constituent octadecanoic acid (CUFE) & Hyophorbe lagenicaulis leaves constituent is Quercetin 7, 3', 4' trimethoxy (HLLE) performed by DPPH and H2O2 scavenging activity. The effects of CUFE & HLLE (1:1) were also evaluated by using hydrogen peroxide scavenging activity. The finding from the present study was showed that the effect of CUFE and HLLE as nutraceuticals and functional food classifications.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032962 A

(19) INDIA

(22) Date of filing of Application :22/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ELECTRONIC STETHOSCOPE FOR AUSCULTATION AND INTERPRETATION OF SAME

(51) International classification	:A61B0007040000, A61B0007020000, A61B0007000000, H04B0015000000, A61B0008000000	(71)Name of Applicant : 1)Mohsin Ali Khan Address of Applicant :5TH FLOOR,PEARL COURT APARTMENT,GOKHALE MARG,LUCKNOW-226001,UTTAR PRADESH,INDIA Uttar Pradesh India
(31) Priority Document No	:NA	2)Zaw Ali Khan
(32) Priority Date	:NA	3)Sarina Zehra
(33) Name of priority country	:NA	4)Kinza Zehra
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mohsin Ali Khan
(87) International Publication No	: NA	2)Zaw Ali Khan
(61) Patent of Addition to Application Number:	NA	3)Sarina Zehra
Filing Date	:NA	4)Kinza Zehra
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Stethoscope for listening (auscultation) and interpretation of the sounds of heart and lungs, which enables doctors and healthcare workers to monitor and listen heart and lung sounds of patient in real time using communication means and applications even if they are away from the patient wherein said stethoscope comprises of chest piece (1) with diaphragm to collect the vibrations with the help of microphone or piezoelectric sensors (2) ; the sound signals from the heart are converted to analog electrical signals by the analog-to-digital converter; a pre-amplifier (3) with a small gain is used to suppress the interference from power lines; further pre amplifier transmits these signals to power amplifier (4); an anti-aliasing filter is then employed to prevent aliasing effect.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033342 A

(19) INDIA

(22) Date of filing of Application :24/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN AIR PURIFYING RESPIRATOR MASK WITH OXYGEN GENERATING SYSTEM & SELF STERILIZING UNIT

(51) International classification	:A62B0018080000, A62B0018020000, C01B0013020000, A62B0023020000, A62B0018000000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS,SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ashmit sharma
(33) Name of priority country	:NA	2)Sonia Saini
(86) International Application No	:NA	3)Ruchika Bathla
Filing Date	:NA	4)Vinod Kumar Shukla
(87) International Publication No	: NA	5)Ajay Rana
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN AIR PURIFYING RESPIRATOR MASK WITH OXYGEN GENERATING SYSTEM & SELF STERILIZING UNIT The present invention relates to an air purifying respirator mask with oxygen generating system & self-sterilizing unit, which is implemented for the perfect solution for purification of the air, along with which the mask is equipped with a small oxygen generating system, which generates oxygen with the process of electrolysis. The system includes, but not limited to, a plurality of layers of nonwoven polypropylene fabric with around multiple layers to protect the wearer from harmful gases outside; ultra-powerful UV-C Led strips which produced controlled u-v rays to sterilize the whole mask; a detachable oxygen generator that produces oxygen through the process of electrolysis; and a charging port with light notification when the battery is fully charged. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033423 A

(19) INDIA

(22) Date of filing of Application :26/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : CLOUD ACCESS SECURITY BROKER DETERMINING RISK SCORE OF CLOUD APPLICATIONS BASED ON SECURITY ATTRIBUTES

(51) International classification	:H04L0029060000, H04L0029080000, G06F0021510000, G06N0020000000, G06F0011360000	(71)Name of Applicant : 1)Zscaler,Inc. Address of Applicant :120 Holger Way, San Jose, CA 95134, USA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Davinder Pal Singh
(33) Name of priority country	:NA	2)Rahul Kumar
(86) International Application No	:NA	3)Ankit Kumar
Filing Date	:NA	4)Santhosh Kumar
(87) International Publication No	: NA	5)Narinder Paul
(61) Patent of Addition to Application Number	:NA	6)Vairavan Subramanian
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Cloud access security broker determining risk score of cloud applications based on security attributes Systems and methods include identifying (702) a cloud application; performing (704) one or more automated scripts to determine a first set of attributes of the cloud application; obtaining (706) a second set of attributes of the cloud application based on a manual analysis; obtaining (708) weighting factors for the first set of attributes and the second set of attributes; determining (710) a risk score of the cloud application based on the first set of attributes and the second set of attributes and the associated weighting factors; and displaying (712) the risk score of the cloud application. The steps can further include enforcing (714) security policies for the cloud application based on the risk score, such as via one of a cloud-based system (100) and a Cloud Access Security Broker (CASB) system (400).

No. of Pages : 42 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033583 A

(19) INDIA

(22) Date of filing of Application :26/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SUPPORTING STRUCTURE FOR MOUNTING A JACK AND A SPARE TYRE

(51) International classification	:B62D0025200000, B60K0015067000, B62D0043100000, B60K0001040000, B62D0065020000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SAI KRISHNA ANNABATTULA
(33) Name of priority country	:NA	2)RAJDEEP SINGH KHURANA
(86) International Application No	:NA	3)AMULYA KALI RAY
Filing Date	:NA	4)SACHIN GOYAL
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter disclosed herein relates to a supporting structure for mounting a jack (301) and a spare tyre (302) on a rear floor panel (303) of a vehicle body. The bracket (101) is welded to the rear floor panel (303), and is configured to have a top plane (102) and side planes (103) covering the jack (301) from all sides. The top plane (102) has a lower surface (105) and an upper surface (106), with a notch (107) present on the lower surface (105) and a flange (108) with stiffener beads (109) provided at a bending line between the flange (108) and the lower surface (105).

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032607 A

(19) INDIA

(22) Date of filing of Application :20/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A WIRELESS BODY AREA NETWORK BASED SYSTEM FOR HEALTH MONITORING REMOTELY

(51) International classification	:A61B0005000000, A61B0005020500, G16H0040670000, G16H0010600000, A61B0005040200	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Komal Saxena
(32) Priority Date	:NA	2)Mr. Abdul Basit
(33) Name of priority country	:NA	3)Prof. Dr. Ajay Rana
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A WIRELESS BODY AREA NETWORK BASED SYSTEM FOR HEALTH MONITORING REMOTELY The present invention relates to a WBAN-based system for health monitoring remotely, which is comprised of, but not limited to, a Heartbeat Hearing Module having an ECG Sensor; a microcontroller to process the input from the ECG Sensor; a Wi-Fi Module to connect user device with the microcontroller and its output; a cloud database to record all body vitals and their reading; and a mobile interface to view all output and data values and providing user interaction remotely. The Mobile Application provides a Graphical User Interface (GUI) and presents the data in a graphical form, enabling the real-time Electrocardiogram (ECG) is streamed on the Mobile Application using Mobile Networks or Wi-Fi connectivity. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032728 A

(19) INDIA

(22) Date of filing of Application :20/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : MODULAR SYSTEM AND METHOD FOR THE FABRICATION OF PAPER MICROFLUIDIC ANALYTICAL DEVICES

(51) International classification	:B01L0003000000, B21D0035000000, B81C0099000000, B21D0022020000, E21B0043000000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :ANUSANDHAN BHAWAN,02 RAFI MARG,NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ABHAY SACHDEV
(33) Name of priority country	:NA	2)HARISH SWAMINATHAN
(86) International Application No	:NA	3)ISHITA MATAI
Filing Date	:NA	4)VIJAYESH KUMAR
(87) International Publication No	: NA	5)SUNITA MISHRA
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AN APPARATUS FOR FABRICATING MICROFLUIDIC CHANNELS ON A HYDROPHILIC PAPER SUBSTRATE COMPRISING ABSTRACT Disclosed is the module type apparatus and method for versatile fabrication of chemically patterned paper microfluidic analytical devices (μ PADs) having precise hydrophobic-hydrophilic contrast regions with no requirement of pre or post-process instrumentation. The present invention comprises of integrated sub-assemblies including the stamping system, ink reservoir system, pneumatic system and heating system. The stamping tool with pre-defined projected portions under the influence of pneumatic vertical actuation undergoes 180-degree rotation for absorption and disposing of polycaprolactone (PCL) (or any other hydrophobic polymer ink) on the surface of paper substrate. Continuous application of heat facilitates ink permeation through the thickness of paper in imprinted areas to generate peripheral hydrophobic edges to form one or more microfluidic channels. The pneumatic actuated stamping apparatus can enable fabrication of mass customizable and affordable μ PADs for performing quantitative as well as qualitative point-of-care applications. Further, the invention supports a wide possibility of scenarios for monitoring, diagnostics and quality control, and related development of analytical products and services.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : SPEED DECELERATION SYSTEM OF VEHICLE

(51) International classification	:A63B0021005000, B60T0011040000, B62L0001140000, B60W0030180000, A63B0023040000	(71) Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase – II, New Delhi-110070,India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GUPTA, Manish Kumar
(33) Name of priority country	:NA	2)SONI, Somank
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract SPEED DECELERATION SYSTEM OF VEHICLE A speed deceleration system (130) of a vehicle (100) is provided. The speed deceleration system (130) comprises: a brake actuating means (138) operatively coupled to a body frame (102); a force transmitting member (150), operatively coupled to the brake actuating means (138); a brake unit (132) mounted on a ground engaging member (112), the brake unit (132) comprises a brake panel (200), at least one brake shoe (202) supported to the brake panel (200), a cam pin (204) passing through the brake panel (200), and a brake arm (206) operatively coupled to the brake shoe (202) via the cam pin (204) and configured to move outward upon actuation of the brake arm (206), wherein the force transmitting member (150) is coupled to the brake arm (206); and a stopper rod (300), wherein, the distance between the stopper rod (300) and the brake panel (200) is adapted to be changed. To be published with Figure 4

No. of Pages : 23 No. of Claims : 13

(54) Title of the invention : FUEL TANK OF VEHICLE

(51) International classification	:B60K0015030000, E05B0083340000, A61B0017290000, B66C0023700000, E05B0081240000	(71)Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase- II, New Delhi Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)BANSAL, Kartikay
(33) Name of priority country	:NA	2)NADAF, Asim Tajuddin
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT FUEL TANK OF VEHICLE The present invention comprises a vehicle (100) comprises a fuel tank (113). The fuel tank (113) comprising a fuel tank body (410), a lid housing (201), a lid member (550), and a locking mechanism (700). The locking mechanism (700) is adapted to selectively lock and unlock the lid member (550). The locking mechanism (700) comprises a lock member (702), an actuation member (701), and protrusion member (705). The protrusion member (705) is adapted to be operated between a first position and a second position using the actuation member (701). The protrusion member (705) is in the second position inhibits the movement of the actuation member (701). With the present invention, the lid member (550) and the fuel tank (113) carrying the lid member (550) become relatively inexpensive, and simple while maintaining aesthetics of the vehicle (100). To be published with Figure 4

No. of Pages : 29 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033614 A

(19) INDIA

(22) Date of filing of Application :27/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : BEEJ BALL : A SELF PLANTATION TOOL

(51) International classification	:A01H0001020000, H04L0029140000, B21J0015020000, F16K0011056000, G09G0003290000	(71)Name of Applicant : 1)SAMRIDDHI KUNWAR Address of Applicant :SHEELA BHAVAN, MUCKDOOMPUR, NEAR-DASHARABAG, BARABANKI- 225001 (UTTAR PRADESH) Uttar Pradesh India 2)KUNWAR DIVYANSH SINGH 3)DR. DHIRENDRA BAHADUR SINGH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SAMRIDDHI KUNWAR 2)KUNWAR DIVYANSH SINGH 3)DR. DHIRENDRA BAHADUR SINGH
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device useful for Beej Balls are clay balls made using fertile alluvial soil, Cocopeat and Panchgravya and an Organic seed in it. The ball has to be simply thrown out in open areas and it shall germinate on its own. In regularly keep conducting beej ball throwing drives in various parts of the city and forests where we throw thousands of these balls and leave them to germinate naturally. We also throw beej balls to create a jungle without costly traditional plantation methods. Il"fo.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : LOW COST MANUAL HARBAL MOSQUITO/INSECTS REPELLANT FOGGING DEVICE USING COW DUNG

(51) International classification	:A01M0013000000, A01M0001200000, H01G0011580000, C10L0005420000, A61K0035240000	(71)Name of Applicant : 1)SAMRIDDHI KUNWAR Address of Applicant :SHEELA BHAVAN, MUCKDOOMPUR, NEAR-DASHARABAG, BARABANKI- 225001 (UTTAR PRADESH) Uttar Pradesh India 2)KUNWAR DIVYANSH SINGH 3)DR. DHIRENDRA BAHADUR SINGH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SAMRIDDHI KUNWAR 2)KUNWAR DIVYANSH SINGH 3)DR. DHIRENDRA BAHADUR SINGH
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The device is an eco-friendly mosquito repellant that repels insect mosquitoes from urban and rural areas with the fumes are suitable for closed rooms because direction in it (with the help of manually operated fan). By this device it could help to curb the diseases. The device is also working without electricity. The different herbal plants used in the study were collected from our herbal garden after mixing, pressed in to the desired shapes with the help of a mould which was then dried with the help of sunlight. The cake was dried in the sunlight for minimum 6 hour and further kept in the room for half an hour of drying. Finally, these cakes were packed in suitable air tight container and kept for storage. The lemon grass, Marigold leaves, Ecliptics leaves, essential oil, alone or in combinations with those obtained from other mosquito repellent plant species, could be potentially used for the preparation of mosquito repellent products. The results of this investigation indicated that the lemon grass, Marigold leaves; Ecliptics leaves oil could be beneficial for the control of vector born diseases. It provides an herbal repellent with long lasting protection, safe for human life, human and domestic animal skin with no side effect and no feedback of environmental ill effect, as an alternative to synthetic chemical repellents. The formulation was safe, ecofriendly, cheap, easy to use and has maximum repellence against mosquitoes.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : HUMAN TRACKING DEVICE USING GPS (GLOBAL POSITIONING SYSTEMS)

(51) International classification	:G01S0019480000, G01S0019420000, G01S0019230000, G01C0022000000, H04W0076200000	(71)Name of Applicant : 1)SAMRIDDHI KUNWAR Address of Applicant :SHEELA BHAVAN, MUCKDOOMPUR, NEAR-DASHARABAG, BARABANKI- 225001 (UTTAR PRADESH) Uttar Pradesh India
(31) Priority Document No	:NA	2)KUNWAR DIVYANSH SINGH
(32) Priority Date	:NA	3)DR. DHIRENDRA BAHADUR SINGH
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)SAMRIDDHI KUNWAR
Filing Date	:NA	2)KUNWAR DIVYANSH SINGH
(87) International Publication No	: NA	3)DR. DHIRENDRA BAHADUR SINGH
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device useful for often incorporate either one-way or two-way voice communication. Some devices also allow the user to call several phone numbers using pre-programmed speed dial buttons. Trials using GPS personal tracking devices for sufferers of early-stage dementia are underway in several countries. Text and voice communication is usually provided by a connection to mobile telephony, but GPS devices are available that use satellite communications, always available even if out of mobile telephone range. The purpose of this invention is to provide the care of the elderly/women/Girls etc and vulnerable, and can be used to track small children who may get into danger. Some devices can send text alerts to cares if the wearer moves into an unexpected place.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033619 A

(19) INDIA

(22) Date of filing of Application :27/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : THIRD EYE FOR VISUALLY IMPAIRED (TE-VI) PERSONS GOGGLES

(51) International classification	:G09B0021000000, A61H0003060000, G02B0027010000, A61F0009020000, A63B0033000000	(71)Name of Applicant : 1)SAMRIDDHI KUNWAR Address of Applicant :SHEELA BHAVAN, MUCKDOOMPUR, NEAR-DASHARABAG, BARABANKI- 225001 (UTTAR PRADESH) Uttar Pradesh India 2)KUNWAR DIVYANSH SINGH 3)DR. DHIRENDRA BAHADUR SINGH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SAMRIDDHI KUNWAR 2)KUNWAR DIVYANSH SINGH 3)DR. DHIRENDRA BAHADUR SINGH
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device tseful for the blind person by which the blind man will be able to know the obstructions encountered and it will also help for understand the distance about front obstacle, that' why the person will make decision to turn left or right and it will help for understand the thing will be coming from front of the man about the obstacle is lower side or upper side The purpose of this invention is to provide a device/tool to visually impaired persons for smooth movement without others help. to-

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : A METHOD FOR OPTIMIZATION OF DIRECT AND INDIRECT REGENERATION PATHWAYS OF CITRUS MACROPTERA MONTR. FOR MAXIMUM SHOOT PROLIFERATION

(51) International classification	:A01H0004000000, A01H0005080000, C05F0011080000, G01N0033500000, A61K0038180000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS,SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. (Mrs.) Susmita Shukla
(33) Name of priority country	:NA	2)Ritupriya Singh
(86) International Application No	:NA	3)Dr Shiv Kant Shukla
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD FOR OPTIMIZATION OF DIRECT AND INDIRECT REGENERATION PATHWAYS OF CITRUS MACROPTERA MONTROUZ The present invention relates to a method for optimization of direct and indirect regeneration pathways of citrus Macroptera Montr. for Maximum Shoot Proliferation. The method includes different modes of regeneration viz direct & indirect organogenesis utilizing nodal segments, in vitro roots, and leaves of Citrus macroptera as starting material. The nutrient media for all the different explants and their culture conditions has been optimised. Media optimised for maximum shoot proliferation via direct organogenesis is MT fortified with BAP(1.5mg/l), GA(1mg/l) and NAA (0.25 mg/l). The novelty of direct regeneration is the development of robust protocol for maximum in vitro shoot proliferation and in vitro rooting of Citrus macroptera which can further be acclimatized in soil conditions. Nutrient media optimized by indirect organogenesis using leaf as explant exhibited optimum shoot proliferation in WPM supplemented with BAP(1.0mg/l), Kn(1.0mg/l) & (0.25mg/l) and in vitro root explants showed multiple shoot proliferation in MS fortified with BA(1.0mg/l) and GA(1.0mg/l). Accompanied Drawing [FIG. 1]

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033635 A

(19) INDIA

(22) Date of filing of Application :27/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A VEHICLE SAFETY THROUGH COMPLETE ANGLE MULTI-VISION CONTROL AND DECISION SUPPORT SYSTEM

(51) International classification	:B60R0001000000, G06K0009000000, B60T0001100000, H04N0007180000, B60K0035000000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS,SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Neel Mani
(33) Name of priority country	:NA	2)Dr. Deepa Gupta
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a vehicle safety through complete angle multi-vision control and decision support system, which is comprised of, but not limited to, a plurality of camera devices installed at the various portions of vehicle body, chassis and frame structure; a processing unit equipped with to process captured images by all camera devices for further evaluating the overall working condition of the vehicle; and a display unit to view all status about the vehicle such as type pressure, tyre puncture, any obstacle and the like. An image-based deep learning process to access the risk and safety of the driving vehicle is also implemented. Camera and sensor enabled system should create a view to the driver all around the vehicle – Including near the front – wheels, rear wheels, beneath the vehicle i.e. if the driver just starts the vehicle this view should be available to him which may further focused if the gear either back or front applies. Accompanied Drawing [FIG. 1]

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111033653 A

(19) INDIA

(22) Date of filing of Application :27/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPOSITION OF AYURVEDIC BISCUITS WITH ENHANCED TASTE AND HEALTH BENEFITS

(51) International classification	:A61K0036810000, A61K0036390000, A61K0036530000, A61K0036480000, A61K0036800000	(71)Name of Applicant : 1)VINOD AGGARWAL Address of Applicant :2, Flag Staff Road, Civil Lines, Delhi 110054, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)VINOD AGGARWAL
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A Composition of Ayurvedic Biscuits with Enhanced Taste and Health Benefits Present invention provides an ayurvedic biscuit composition comprises 0.1% Bacopa monnieri(brahmi) extract, 0.1% Convolvulus pluricaulis(Shankpushpi) extract; 0.05% Ocimum Sanctum(Tulsi) extract; 0.05% Withania Somnifera(ashwagandha) extract; 2.24% milk powder and 2.24% soya powder with maida and yeast.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034606 A

(19) INDIA

(22) Date of filing of Application :01/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : HEAT RESISTANT HOT WATER BOTTLE WITH IMPROVED SEALING SYSTEM

(51) International classification	:A61F0007080000, A61F0007020000, B29D0022000000, B29K0069000000, A61F0007000000	(71)Name of Applicant : 1)ENKAY (INDIA) RUBBER CO. PVT. LTD. Address of Applicant :B-3, S.M.A. Industrial Estate, G.T. Karnal Road, Delhi-110033 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Satish Jain
(32) Priority Date	:NA	2)Naresh Jain
(33) Name of priority country	:NA	3)Anil Jain
(86) International Application No	:NA	4)Vipin Jain
Filing Date	:NA	5)Jinesh Jain
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract HEAT RESISTANT HOT WATER BOTTLE WITH IMPROVED SEALING SYSTEM The present invention relates to rubber hot water bottle and more specifically to an improved method of manufacturing such bottles with improved sealing system. The bottle manufactured with the process as described herein is seamless with integrated stopper design with bottle ready to use straight out of the molding machine. The hot water bottle assembly consists of the sealing of the stopper to the neck of hot water bottle tightly with the help of rubber washer. Fig:2

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111031628 A

(19) INDIA

(22) Date of filing of Application :14/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : MAGNETIC PEROVSKITE NANOFILLERS-PVDF COMPOSITE STRUCTURES AND METHOD THEREOF

(51) International classification	:B82Y0030000000, H01F0001000000, B01J0023000000, H05K0009000000, A61B0005050000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Soumyaditya Sutradhar
(33) Name of priority country	:NA	2)Mr. Tanmoy Chakraborty
(86) International Application No	:NA	3)Dr. Monalisa Mukherjee
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MAGNETIC PEROVSKITE NANOFILLERS-PVDF COMPOSITE STRUCTURES AND METHOD THEREOF The present invention relates to magnetic perovskite nanofillers-PVDF composite structures and method thereof. The present invention is intended to Magnetic perovskite nanofillers-PVDF composite structures with high electric breakdown strength and low transmission efficiency of EM radiation. Magnetic perovskite (ABO_3 , here B is Fe^{3+} ion) nanomaterials with significantly high magnetic permeability and dielectric permittivity can be synthesized by very simple chemical synthesis route. This method is very important for the fabrication of magnetic perovskite nanomaterials with desired magnetic and dielectric responses. Further, these magnetic perovskite nanomaterials can be encapsulated by the PVDF matrix to form the light weight, flexible, large surface area and chemically stable magnetic perovskite nanofillers-PVDF heterojunction composite structures having significant EMI shielding property. The performance of magnetic study as a function of external magnetic field and dielectric study as a function of frequency on these magnetic perovskite nanofillers-PVDF composite materials clearly shows the significant amount of magnetization and dielectric polarization of the composite structures. Dated this 12th day of July, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111031629 A

(19) INDIA

(22) Date of filing of Application :14/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYNTHESIS OF MANNICH BASES OF 2,4,5 TRIPHENYL IMIDAZOLE AND METHOD THEREOF

(51) International classification	:G01N0033180000, C07D0401120000, C07K0001000000, A61K0049060000, C08G0014060000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Archana Sharma
(33) Name of priority country	:NA	2)Dr.Tanveer Naved
(86) International Application No	:NA	3)Dr. Ramit Kapoor
Filing Date	:NA	4)Dr. Abul Kalam Najmi
(87) International Publication No	: NA	5)Dr. Pooja Mittal
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD FOR SYNTHESIS OF MANNICH BASES OF 2,4,5 TRIPHENYL IMIDAZOLE The present invention relates to a method for the synthesis of mannich bases of 2,4,5 Triphenyl imidazole viz. 1-methyl-1-phenyl-1,2,3,4-tetrahydroIsoquinoline (74c) and 1,2,3,4-TetrahydroIsoquinoline (74e) and were confirmed by various spectroscopic techniques like Infrared spectroscopy, Nuclear Magnetic Resonance (1H NMR) and mass spectroscopy. The synthesized compounds were evaluated for acute toxicity studies and further evaluated for their antidiabetic and CNS depressant potential. The molecular weight of the synthesized compounds was found to be 517.66 g/mol and 427.62 g/mol respectively. The percentage yield was found to be 78.1% and 73.1 % respectively. Acute toxicity studies were performed according to the OECD protocols and changes in body weight of the rats, mortality and changes in behavior patterns were observed for the various groups. Accompanied Drawing [FIG. 1] Dated this 14th day of July, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034321 A

(19) INDIA

(22) Date of filing of Application :30/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR MALWARE RESILIENT CROSS DOMAIN CONTROLLED ONE-WAY GATEWAY (COG) SYSTEM

(51) International classification	:H04L0029060000, G06F0021620000, H04L0009320000, G06F0040123000, G06Q0010100000	(71) Name of Applicant : 1)Chairman, Defence Research And Development Organisation (DRDO) Address of Applicant :Ministry Of Defence, Govt. of India, Room No. 348, B- Wing, DRDO Bhawan, Rajaji Marg, New Delhi-110011, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAI, Nitin
(33) Name of priority country	:NA	2)DUBEY, Bipin Kumar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter refers to a method for sanitizing a document file at a gateway of a private network received from an external network for providing secure & one-way data transfer to private network. The method comprising receiving, at a gateway, a document file from an external source and then processing the document file at the gateway. Thereafter, identifying at least one active control code included in a file format of a document file. The method further, removes at least one active control code from the document file format and repackages the document file as a sanitized document, wherein the sanitized document is without any active control code. Thereafter, the method transmits the sanitized document to a private network.

No. of Pages : 37 No. of Claims : 22

(54) Title of the invention : DETECTING AND RESOLVING CONFLICTS IN A COLLABORATIVE NETWORK PLANNING SYSTEM

(51) International classification	:H04N0013376000, G06F0016176000, H01L0041090000, H04W0024020000, H04W0016180000	(71) Name of Applicant : 1)Ciena Corporation Address of Applicant :7035, Ridge Road, Hanover, Maryland, 21076, United States of America U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Christopher T Deitrich
(33) Name of priority country	:NA	2)Joseph John Ivko Jr
(86) International Application No	:NA	3)Rahul Pande
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods for enabling collaboration for planning changes to a communications network are provided. A method (120), according to one implementation, includes receiving (122) a first branch of a provisional plan, where the first branch includes information regarding a change to at least one of a network element and services to be provided by the network element. The method also includes receiving (124) a second branch of the provisional plan, where the second branch includes information regarding a change to at least one of the network element and the services to be provided by the network element. The method also includes determining (126_ if the first branch and the second branch are compatible with each other. In response to determining that merging (128) the second branch with the first branch would create a conflict, the method further includes providing (130) a resolution to the conflict.

No. of Pages : 46 No. of Claims : 10

(54) Title of the invention : METHOD AND SYSTEM FOR INTERLOCKING CONVEYOR GUARD WITH CONVEYOR BELT

(51) International classification	:B65G0043020000, B65G0015300000, B29D0029060000, B29K0105000000, B65G0043000000	(71)Name of Applicant : 1)HINDUSTAN ZINC LIMITED Address of Applicant :Yashad Bhawan, Udaipur – 313004, Rajasthan-313004,India. Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DEEPAK SOPORI
(32) Priority Date	:NA	2)MANAS TYAGI
(33) Name of priority country	:NA	3)PRAKHAR DWIVEDI
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR INTERLOCKING CONVEYOR GUARD WITH CONVEYOR BELT The present disclosure provides a method for interlocking a conveyor belt (102) with a plurality of conveyor guards (104). The method includes a first step of interlocking the plurality of conveyor guards (104) with the conveyor belt (102). The method includes another step of arranging an electric cable (108) with the plurality of conveyor guards (104). The method includes yet another step of detecting disturbance in tension of the electric cable (108). The method includes yet another step of sending command for halting operation of the conveyor belt (102). The plurality of conveyor guards (104) are interlocked around the conveyor belt (102) with facilitation of the electric cable (108). The plurality of conveyor guards (104) are interlocked in 360 degree around the conveyor belt (102). The electric cable (108) is arranged with the plurality of conveyor guards (104) in zig-zag manner. To be published with Fig. 2

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : AGRO LAND PLAINER (KARAH)

(51) International classification	:C07K0014395000, A61K0047690000, B60F0003000000, G11B0007007000, H04B0001380000	(71)Name of Applicant : 1)RAJESH KUMAR Address of Applicant :30-VILLEGA ABDULLAPUR PO- CHILKANA SULTANPUR, SAHARANPUR UTTAR PRADESH-247231, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)RAJESH KUMAR
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

India is an agricultural country most people are engaged in the agriculture works cultivating land is the major part of cropping system, for the best cropping land must have plain surface but mostly Indian lands are un plain watering is an also integrals part the best cropping, plain surface area use less water In cropping and spreading equally In plain, We have many problems In cropping In India water scarcity is an · important problem by any mean we have use less water if we have plain agro lands the water will be less used in the agriculture sector so it is necessary for making lands plain for this purpose we have .olden plainer that works as carry clay touching with ground surface and giving more load due to friction between carrying clay & the ground, and other computer land .plainer also have· the same process, Here I have invented an special land plainer that working is different the already existed land plainer this land plainer is just like a trolley carrying clay one place to the other place as .load and unload the trolley or trolley automatically the tractor driver seating tractor can load or un load this running motion continuous with the help hydraulic already all tractors in build . system, the main feature in . this land plainer carrying clay one place to another place without touching the ground surface it take up on its wheels that ·give less load on the tractors due to less friction between · carrying clay and the ground surface.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034651 A

(19) INDIA

(22) Date of filing of Application :02/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ACID FREE PREMIX SPRAYABLE BIOPOLYMERIC COMPOSITION WITH BIOREGULATORY AND PESTICIDAL EFFECTS AND THE PROCESS OF ITS PREPARATION

(51) International classification	:A01N0043653000, A61K0008340000, A61K0008440000, A01N0025100000, A61K0008040000	(71)Name of Applicant : 1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR) Address of Applicant :KRISHI BHAWAN, 1 DR. RAJENDRA PRASAD ROAD NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DR. ANUPAMA SINGH
(33) Name of priority country	:NA	2)SHREOSI BISWAS
(86) International Application No	:NA	3)NEERAJ PATANJALI
Filing Date	:NA	4)TIRTHANKAR BANERJEE
(87) International Publication No	: NA	5)C. VISWANATHAN,
(61) Patent of Addition to Application Number	:NA	6)JP TANDON,
Filing Date	:NA	7)B S PARMAR
(62) Divisional to Application Number	:NA	8)SHIVANI NAGAR
Filing Date	:NA	

(57) Abstract :

An organic solvent or oil and acid free biopolymeric liquid composition of gibberellic acid (GA) biosynthesis inhibitors for spraying the lodging prone plants, and process of preparation, wherein 10 the liquid with at least one water soluble GA inhibitor, in situ micronized poorly water soluble or water insoluble triazole category GA inhibitor, is suspended uniformly, aided by thixotropic modifier wherein size of suspended GA inhibitor at least 2 microns to less than 1000 nm, in liquid comprising water and GA inhibitor from chlomequat chloride (CCC), mepiquat chloride, chlorphonium, BTS 44584 and containing at least one triazole from paclobutrazole, uniconazole 15 and tebuconazole suspended aided by thixotropic modifiers from the derivatized cellulose, starches, guar gum, tragacanth gum, xanthan gum, acacia gum, Coch/o\$permum religiosum gum wherein the ratio of the water soluble GA inhibitor, poorly water soluble GA inhibitor and thixotropic modifiers was kept in the preferred range of 60: 15:0.3.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034683 A

(19) INDIA

(22) Date of filing of Application :02/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR PETROPHYSICAL EVALUATION FOR CLASTIC GAS HYDRATE RESERVOIRS USING STOCHASTIC MULTI-MINERAL MODELLING

(51) International classification	:E21B0043010000, G01N0015080000, G01V0099000000, G01V0011000000, G01N0033240000	(71)Name of Applicant : 1)ONGC (OIL AND NATURAL GAS CORPORATION LIMITED) Address of Applicant :Pandit Deendayal Upadhyaya Urja Bhawan 5, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SURAJ KUMAR
(33) Name of priority country	:NA	2)VEERUBHOTLA L NARAYANA AVADHANI
(86) International Application No	:NA	3)SOMA CHATTARJEE
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR PETROPHYSICAL EVALUATION FOR CLASTIC GAS HYDRATE RESERVOIRS USING STOCHASTIC MULTI-MINERAL MODELLING The present invention relates to method for evaluating the clastic gas hydrate reservoirs for their petrophysical properties, comprising the steps of: identifying a gas hydrate reservoir; employing petrophysical data for identifying mineralogical compositions of gas hydrate reservoir; preparing standard samples from several minerals; calculating relative ratios of the component minerals in each sediment sample from the PXRD intensity ratios.; measuring and comparing XRD response from actual core data with the synthetic data; conducting facies analysis for identifying clean and shaly gas hydrate facies.; modelling of facies for stratification and validation with ECS cross-plots; and using Stochastic multi-mineral modelling for evaluation of gas hydrate reservoir with the developed petrophysical data corroborated with core porosity, saturation and mineralogical compositions. Ref : Figure 7

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034807 A

(19) INDIA

(22) Date of filing of Application :02/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A HEADLIGHT HAVING HIGH-LOW BEAM FUNCTION, POSITION FUNCTION AND/OR AESTHETIC APPEARANCE OPERATING WITH COMMON LIGHT SOURCE

(51) International classification	:F21S0041320000, F21S0041663000, F21S0041147000, F21S0041240000, B60Q0001140000	(71)Name of Applicant : 1)Lumax Industries Limited Address of Applicant :2nd Floor, Harbans Bhawan – II Commercial Complex, Nangal Raya New Delhi – 110046, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sanjeev Kumar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A HEADLIGHT HAVING HIGH-LOW BEAM FUNCTION, POSITION FUNCTION AND/OR AESTHETIC APPEARANCE OPERATING WITH COMMON LIGHT SOURCE A headlight (100) having high-low beam function, position function, and/or aesthetic appearance operating with common light source comprising first reflectors (102), for low and/or high beam configurations and second reflectors (104, 106), for position function, first LEDs (1080) and second LEDs (1100), facing the first reflectors (102) and the second reflectors (104, 106), a first PCB (108), and a second PCB (110), arranged respectively for the low beam and the high beam, transparent surfaces (116, 118), aligned with the first reflectors (102), to project the low beam and/or the high beam of light from the first LEDs (1080) and the second LEDs (1100), reflected from the first reflectors (102), and etched surfaces (112, 114), aligned with the second reflectors (104, 106), to receive and project light from the first LEDs (1080) and the second LEDs (1100), reflected from the second reflectors (104, 106). [FIGURE 1]

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : NOVEL MOSQUITO LARVICIDAL FORMULATIONS AND PROCESS FOR THE PRODUCTION THEREOF BASED ON SOLID-STATE FERMENTATION (SSF) OF BACILLUS THURINGIENSIS VAR. ISRAELENIS (SEROTYPE H14)

(51) International classification	:C07K0014325000, A01N0063000000, C12M0001160000, C12P0021000000, A23K0010120000	(71)Name of Applicant : 1)Indian Council of Medical Research Address of Applicant :V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi - 110029, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)G. Prabakaran
(32) Priority Date	:NA	2)Ashwani Kumar
(33) Name of priority country	:NA	3)A. Mathivanan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process of mosquito larvicidal formulation such as Tablet, Slow release, Water Dispersible Powder, Aqueous Suspension formulation comprising a spore crystal complex of Bacillus thuringiensis var. israelensis (serotype H-14) produced from Solid State Fermentation (SSF) technology. These formulations are capable of killing larval stages of vectors of mosquito borne diseases such as malaria, filariasis, yellow fever, Zika, Chikungunya, Japanese encephalitis and dengue found in polluted and clean water bodies.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034333 A

(19) INDIA

(22) Date of filing of Application :30/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : D CHAIN SELF ENERGIZING METHOD

(51) International classification	:A61Q0019080000, A61Q0019040000, E21B0033040000, F16H0007080000, B21J0015020000	(71)Name of Applicant : 1)DEEPAK SHARMA Address of Applicant :HOUSE NO. 439, JAWAHAR COLONY MAHUKALAN GANGAPUR CITY, DISTRICT:SAWAI MADHOPUR, STATE-RAJASTHAN, PIN CODE:322202 Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DEEPAK SHARMA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method called the D chain self-energizing method wherein two or more friction braking systems are arranged in an open chain or a close chain for the removal of kinetic energy from one or more moving objects. As the brake pad of the previous friction braking system of the chain is pushed against the surface of the moving object for the friction braking, a magnitude of the frictional force and a magnitude of the normal reaction force are generated between the surface of the brake pad of the previous friction braking system of the chain and the surface of the moving object. A magnitude of the frictional force that is generated between the surface of the brake pad of the previous friction braking system of the chain and the surface of the moving object is used as the braking effort in the next friction braking system of the chain to reduce the requirement of energy in friction braking systems for the friction braking.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111034552 A

(19) INDIA

(22) Date of filing of Application :31/07/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPOSITION OF BREAD FORTIFIED WITH NATURAL INGREDIENTS FOR ENHANCED TASTE AND HEALTH BENEFITS

(51) International classification	:A61K0036810000, A61K0036480000, A61K0036530000, A61K0036390000, A61K0036230000	(71)Name of Applicant : 1)VINOD AGGARWAL Address of Applicant :2, Flag Staff Road, Civil Lines, Delhi 110054 Delhi India (72)Name of Inventor : 1)VINOD AGGARWAL
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A Composition of Bread Fortified with Natural Ingredients for Enhanced Taste and Health Benefits Present invention provides a composition of bread fortified with natural ingredients having enhanced taste and health benefits. The composition comprises of 0.08% by weight of Bacopa monnieri(brahmi) extract, 0.08% by weight of Convolvulus pluricaulis(Shankhpushpi) extract, 0.04% of Ocimum Sanctum(Tulsi) extract, 0.04% of Withania Somnifera(ashwagandha) extract, 1.8% of milk powder and 1.18% of soya powder are mixed with base ingredients of flour and yeast.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111035900 A

(19) INDIA

(22) Date of filing of Application :09/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : PATIENT SAFETY ISOLATION POD

(51) International classification	:A61G0010000000, A61H0001020000, E04G0021320000, E05B0001000000, F16L0059020000	(71)Name of Applicant : 1)Dr. AMIT KUMAR PANDEY Address of Applicant :Central Patel Nagar, Near Dih Sthan, Barhaj Bazaar, Deoria-274602, Uttar Pradesh. Uttar Pradesh India 2)MD. S.A. KHAN
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. AMIT KUMAR PANDEY
(33) Name of priority country	:NA	2)MD. S.A. KHAN
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PATIENT SAFETY ISOLATION POD The present invention discloses patients isolation safety pod 100 . This framework of patients isolation safety pod 100 is made up of High Density Polyethylene (HDPE) which is very durable , flexible , noncorrosive and noninteractive to microbes. This patients isolation safety pod 100 comprised of a base 103 on which whole framework of patients isolation safety pod 100 is placed and this base 103 is also used as bed for patient's body. This patients isolation safety pod 100 is further comprised of rectangular structure 101 made up of straight HDPE pipes which are hollow cylindrical body. This rectangular structure 101 is 3 ft. in width and 6 ft. long in size. These pipes have arrangement for adjustment of length as well as width as per requirement. This patients isolation safety pod 100 has 5-6 semicircular structures 102 of height 3.5 ft along the length of rectangular structure 101 . These semicircular structures 102 alongwith rectangular structure 101 and base 103 form a cabinet like cavity in which patient's body can rest. The semicircular structures 102 also have adjusting mechanism 105 to increase and decrease the size of the cavity by imparting pressure on semicircular structures 102 . This patients isolation safety pod 100 has an opening 104 at one end to place the patient.s body inside the cavity formed. Figure 1

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036293 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : CONDUCTIVE SEAL FOR BEARINGS

(51) International classification	:H01T0013340000, H01L0051520000, H05K0009000000, H01L0021285000, F16J0015060000	(71)Name of Applicant : 1)National Engineering Industries Ltd Address of Applicant :Khatipura Road, Jaipur, Rajasthan, India, 302006 Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Shubham Vishvakarma
(33) Name of priority country	:NA	2)Ayush Jain
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for preparing a conductive seal is described. The method includes the steps of depositing a metal layer wherein the metal is selected from gold, palladium, copper, aluminum and combinations thereof on a seal by a physical vapor deposition process, at a temperature in a range from about 40 degrees centigrade to about 80 degrees centigrade. The thickness of the layer of metal on the seal is at least less than about 250 nanometres to obtain the conductive seal. A bearing including a conductive seal, wherein the conductive seal includes a metal layer having a thickness of at least less than about 250 nanometres, is also described.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111028747 A

(19) INDIA

(22) Date of filing of Application :25/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR IDENTIFICATION OF A PERSON USING PHYSIOLOGICAL PARAMETERS & BASED ON ARTIFICIAL INTELLIGENCE

(51) International classification	:G06K0009000000, A61B0005000000, A61B0005024000, G06T0007246000, A61B0005110000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Shivani Verma
(33) Name of priority country	:NA	2)M.S. Prasad
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM FOR IDENTIFICATION OF A PERSON USING PHYSIOLOGICAL PARAMETERS & BASED ON ARTIFICIAL INTELLIGENCE The present invention relates to a system for identification of person using physiological parameters & based on Artificial Intelligence. The present invention discloses a system for identifying a person using unique blend of classical technique with innovative physiological parameters such as, but not limited to, 7 Skeletal data, Gait parameters, Face recognition parameters including Occluded faces, Movement parameters (a new concept includes how a person moves /walks or stances taken). The proposed design would be an intelligent person detection system, with high level of confidence and low false alarm rate, in all adversities such as occluded, obscured, low light condition, artificial distortion of movement/postures and the like. Accompanied Drawing [FIG. 1] 14 Dated this

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111029112 A

(19) INDIA

(22) Date of filing of Application :29/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN AUTO DISABLE SYRINGE FOR PREVENTION OF REUSE OF THE SYRINGE

(51) International classification	:A61M0005315000, A61M0005500000, A61M0005320000, A61M0005310000, A61M0005340000	(71)Name of Applicant : 1)HITECH MEDICS PVT. LTD. Address of Applicant :AL-4, Sector-13, GIDA, Gorakhpur- 273209, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MOHAMMAD USMAN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN AUTO DISABLE SYRINGE FOR PREVENTION OF REUSE OF THE SYRINGE This invention relates to an auto disable Syringe for prevention of Reuse of the Syringe. Said auto disable Syringe comprising of Plunger (101) accommodated in Barrel (102) with Gasket (103). The Plunger (101) is provided with arrow type tip (104) with wings (105) for locking with said gasket (103) inside the barrel (102). The plunger (101) is having hinge at its lower portion for detaching the plunger while retracting back to avoid reuse thereof. (Figure 1)

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111029143 A

(19) INDIA

(22) Date of filing of Application :29/06/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A TOILET ASSEMBLY FOR HUMANS IN LUNAR GRAVITY USING PRESSURE DIFFERENCE

(51) International classification	:G06Q0030000000, B64G0007000000, B64G0001600000, C30B0030080000, G01V0007000000	(71)Name of Applicant : 1)AMITY INTERNATIONAL SCHOOL Address of Applicant :AMITY INTERNATIONAL SCHOOL, Road No:44 Saket M Block, New Delhi, Delhi 110017, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Hridyanshu
(33) Name of priority country	:NA	2)Aditya Khuntia
(86) International Application No	:NA	3)Keshav Gupta
Filing Date	:NA	4)Himanshu Sharma
(87) International Publication No	: NA	5)Madhav Sharma
(61) Patent of Addition to Application Number	:NA	6)Sandeep Kumar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A TOILET ASSEMBLY FOR HUMANS IN LUNAR GRAVITY USING PRESSURE DIFFERENCE The present invention relates to a toilet assembly for humans in lunar gravity using pressure difference. The present invention which is designed for humans and to meet the requirements for usage in lunar gravity. A key focus on this research has been given for making it cost effective and works on pressure differential. It maintains an internal ecosystem of air and doesn't depend on external air and atmosphere. It is gravity independent and hence can function in both, lunar gravity and microgravity. Along with complying with the minimum requirements, it also integrates various innovative ideas. The systems (urinal and fecal) work on a single pump. Dated this 28th day of June, 2022 Amity International School Name of Applicant Signature: Name: Alka Saxena

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111038047 A

(19) INDIA

(22) Date of filing of Application :23/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR SANITIZING DOWNLOADED CONTENT FOR RANSOMWARE PROTECTION ON INDIVIDUAL COMPUTERS

(51) International classification	:G06F0021560000, G06F0021550000, G06F0001260000, H05B0045500000, G06F0015160000	(71)Name of Applicant : 1)Model Institute of Engineering and Technology Address of Applicant :Model Institute of Engineering and Technology, Kot Bhalwal, Jammu – 181122 Jammu and Kashmir Jammu & Kashmir India
(31) Priority Document No	:NA	2)Dr. Ankur Gupta
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Ankur Gupta
(86) International Application No	:NA	2)Adhirath Kapoor
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SYSTEM AND METHOD FOR SANITIZING DOWNLOADED CONTENT FOR RANSOMWARE PROTECTION ON INDIVIDUAL COMPUTERS The present invention proposes a novel USB-Drive (102a) based system 5 and method to provide a two-pronged security approach for protecting individual users from ransomware. It encompasses an AI-based chatbot (1024a) which tracks the user's internet browsing and content consumption patterns, warning them if they visit unsafe sources or perform any unsecure operations. Further, it creates a sandbox virtual environment mimicking an actual computer system, where all 10 downloaded content is redirected and isolated. The downloaded content is executed and changes in the virtual environment such as encryption of the dummy files observed to classify the downloaded content as malicious. The malicious content along with the sandbox instance is immediately terminated and the threat of the ransomware neutralized. The proposed invention can also be used to secure 15 individual computers in a small organization by using the USB-drive as a digital authentication token and a pre-requisite to access the internet and enforce a security policy without a centralized solution.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111035684 A

(19) INDIA

(22) Date of filing of Application :06/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : LOW COST MICRO CRACK MEASURING INSTRUMENT FOR DETECTION OF FAULTS ON SITE IN SOLAR PANELS

(51) International classification	:H02S0050100000, G01N0021880000, H02S0050000000, G01N0027900000, H02J0013000000	(71)Name of Applicant : 1)Mrs. Tarana Afrin Chandel Address of Applicant :Associate Professor, ECE Integral University, Post: Basha, Dasauli, Kursi Road Lucknow Pin- 226026 Uttar Pradesh, India Uttar Pradesh Uttar Pradesh India 2)Dr. Mohammed Arifuddin Mallick
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mrs. Tarana Afrin Chandel 2)Dr. Mohammed Arifuddin Mallick
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to an apparatus for detection of faults in solar panels. In one embodiment, the apparatus is capable of measuring micro crack or detecting a fault of a solar panels in an economic way before the panels become ineffective in the energy generation process. The invention detects the failure of a solar panels by using a monochromatic light source to measure the defects of the current detection method as compare to existing system used which are complicated and costly, and the system are huge and inconvenient to install on site and maintain.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111035694 A

(19) INDIA

(22) Date of filing of Application :06/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR ORDER REVIEW, CONFIRMATION AND PROVIDING SAFE TRANSACTIONS FROM POINT OF SALE (POS) TO CUSTOMERS

(51) International classification	:G06Q0030060000, G06Q0020200000, G06Q0020320000, G06Q0050120000, G06Q0020120000	(71)Name of Applicant : 1)Neeraj Swarnkar Address of Applicant :2552 H , Sector 49, Faridabad, Haryana – 121001 Haryana India (72)Name of Inventor : 1)Neeraj Swarnkar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: SYSTEM AND METHOD FOR ORDER REVIEW, CONFIRMATION AND PROVIDING SAFE TRANSACTIONS FROM POINT OF SALE (POS) TO CUSTOMERS ABSTRACT An order management system comprising: a primary customer device, to place an order, through a voice call; a Point Of Sale (POS) terminal operated by an operator, configured to generate an order ticket based on an order data: a data center connected to the POS terminal comprises: a processing unit, in communication with a memory device storing computer executable instructions, configured to: generate an order review page based on the received order ticket; transmit the order review page to the primary customer device of the customer when the primary customer device is a smartphone; display the order review page through an order management application installed on the primary customer device; generate a confirmation signal; transmit the confirmation signal to the POS terminal, wherein the confirmation signal enables the operator to place the order through the POS terminal. Claims: 10, Figures: 7 Figure 1 is selected.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : NETWORK DEVICES AND METHOD FOR FACILITATING GEOGRAPHICALLY LOCALIZED COMMUNICATION

(51) International classification	:G06Q0030060000, H04N0021422700, A63F0013335000, H04N0021610000, H04N0021462000	(71)Name of Applicant : 1)FANI BHUSHAN Address of Applicant :A-601, PLOT-09, CHITRAKOOT APPT. SEC.-22, DWARKA-110075, NEW DELHI Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)FANI BHUSHAN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT NETWORK DEVICES AND METHOD FOR FACILITATING GEOGRAPHICALLY LOCALIZED COMMUNICATION Network devices and method for facilitating geographically localized communication is disclosed. The network devices comprise a router for providing a local area network (LAN) and an access point for providing virtual access points. Further, the network devices comprise a processor configured to execute one or more predefined computer instructions to perform functions. The functions comprise providing the virtual access points that are detectable by user devices. The functions also comprise receiving a request for connection via a virtual access point from the user devices. Further, the functions comprise connecting the user devices to the LAN via the virtual access point. Furthermore, the functions comprise providing a custom application associated with one or more entities on the user devices connected to the LAN for the geographically localized communication with the entities and with respect to each other. The method comprises the steps performed by the network devices. Fig. 1

No. of Pages : 49 No. of Claims : 24

(54) Title of the invention : GRAPHENE BASED PRINTABLE SENSORS FOR MONITORING OF PANDEMIC PATIENTS USING INTERNET OF THINGS

(51) International classification	:A61B0005000000, G06Q0050220000, G16H0040630000, A61B0005030000, A61B0005145000	(71)Name of Applicant : 1)Dr. Sharad Sharma Address of Applicant :Professor, Electronics and Communication Engineering Deptt., Maharishi Markandeshwar Engg. College, Maharishi Markandeshwar (Deemed to be University), Mullana - 133207 Haryana India 2)Dr. Jyoti Sharma
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Sharad Sharma
(33) Name of priority country	:NA	2)Dr. Jyoti Sharma
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

GRAPHENE BASED PRINTABLE SENSORS FOR MONITORING OF PANDEMIC PATIENTS USING INTERNET OF THINGS The pandemic situation like COVID 19 can be controlled very effectively if each patient can be monitored individually. It will not help the physicians to save the human lives as well as it will ensure the optimal use of resources. The use of Graphene sensors as a tattoo drawn on the patient's body is a suitable candidate to monitor any changes in the vital parameters of a patient. In case of any abrupt changes it will send signal to a local receiver which compiles all the data. The receivers are connected through IoT which provides a dependable low power low range connection. The use of IoT enable the administration to monitor the situation remotely ensuring the optimal use of resources. It will reduce the spreading of the infection as well as optimize the use of available resources. These sensors will be monitored for movement of patients also to prevent them to leave a specified quarantine zone so as to stop the spreading of the disease. These tattoos can be easily removed after the recovery of the patients. It is a low cost solution to ensure the well-being of patients and control of the spread of the disease.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036751 A

(19) INDIA

(22) Date of filing of Application :13/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A LAMP WITH SOLDERED PCBS

(51) International classification	:H05K0001140000, F21Y0115100000, F21S0008000000, F21V0029700000, H05K0003000000	(71)Name of Applicant : 1)Lumax Industries Limited Address of Applicant :2nd Floor, Harbans Bhawan-II, Commercial Complex, Nangal Raya, New Delhi-110046, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sanjeev Kumar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A LAMP WITH SOLDERED PCBS A lamp (100) with soldered PCBs, the lamp (100) comprising a housing (102) a first printed circuit board (PCB), configured to power a first set of Light emitting diodes (LEDs), a second PCB (106), soldered at an end of the first PCB (104), arranged perpendicularly to the first PCB (104), configured to power a second set of LEDs (1060), a reflector (108), configured to reflect light from the first set of LEDs (1040), an extension (112) configured to cover the first PCB (104), the second PCB (106), the first set of LEDs (1040), the second set of LEDs (1060), and the reflector (108) and connected with the housing (102), and an inner lens (110) fixed over the extension (112), facing the second set of LEDs (1060). The second set of LEDs (1060) is configured to light the inner lens (110). [FIGURE 1]

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : A LAMP AND RIM ASSEMBLY WITH BRACKET RIM MOUNTING

(51) International classification	:B65D0021020000, A63B0063080000, H04R0009020000, E06B0009323000, G02B0006380000	(71)Name of Applicant : 1)Lumax Industries Limited Address of Applicant :2nd Floor, Harbans Bhawan – II Commercial Complex, Nangal Raya New Delhi – 110046, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sanjeev Kumar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A LAMP AND RIM ASSEMBLY WITH BRACKET RIM MOUNTING A lamp and rim assembly (100) with bracket rim mounting (106), comprising a housing (102) configured to receive a lamp (1024), comprising cavity (1020) to facilitate screws, and ribs (1022), a rim (104) having first flanges (1040) and second flanges (1042), bracket rim mountings (106), wherein each bracket rim mounting (106) comprising a first face (1061), in contact with the rim (104) at the second flanges (1042), configured to maintain concentricity of the rim (104), a second face (1062), adjacent to the first face (1061), a third face (1063), adjacent to the second face (1062), performing a cantilever function, and a fourth face (1064), adjacent to the third face (1063), having hole (1065) for screwing the housing (102) on the cavity, wherein the bracket rim mountings (106) is configured latch on the rim (104) using the upward force, applying tension on the rim (104) at the second flanges (1042). [FIGURE 1]

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111038847 A

(19) INDIA

(22) Date of filing of Application :27/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A CLEFT MEASURING DEVICE FOR CLEFT LIP AND PALATE PATIENTS

(51) International classification	:G03C0007305000, A61B0090000000, A61C0007000000, A61K0031560000, A61J0011000000	(71)Name of Applicant : 1)DR. ADITI VERMA Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, KING GEORGE'S MEDICAL UNIVERSITY LUCKNOW UTTAR PRADESH-226003, INDIA Uttar Pradesh India 2)DR. SAUMYENDRA VIKRAM SINGH 3)DR. LAKSHYA KUMAR 4)DR.DEEKSHA ARYA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR. ADITI VERMA 2)DR. SAUMYENDRA VIKRAM SINGH 3)DR. LAKSHYA KUMAR 4)DR.DEEKSHA ARYA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A CLEFT MEASURING DEVICE FOR CLEFT LIP AND PALATE PATIENTS The present invention relates to a cleft measuring device for cleft lip and palate patients. The device cleft two external vertical legs (1, 1 ') rests bilaterally on the buccal frenum (mucosal fold) region of the cast. Two Inner vertical legs (2,2') having adjustable distance between the legs rests on the boundary walls of the cleft in the palate to measure the width of the cleft in the palate across fixed points. Calibrated horizontal arm (3) acts as the connector for both external and internal legs. Digital calibration screen (4) records the distance between the two internal arms when the device is positioned on the cast. Bilateral Stabilizing elements (5,5') stabilizes the device on cast. Flexible plastic ruler (6) attached to one of the external legs and lock (7) attaches flexible ruler on other external leg.

No. of Pages : 23 No. of Claims : 4

(54) Title of the invention : A METHOD TO REPRESS STARCH SYNTHASE II ACTIVITY IN RICE AND TO OBTAIN STARCH CONTAINING PRODUCTS WITH AN INCREASED AMYLOSE CONTENT

(51) International classification	:C12N0015820000, C12N0009100000, C08B0030040000, A01H0005100000, C08B0030000000	(71)Name of Applicant : 1)MOHD. RIZWAN JAMEEL Address of Applicant :10/266, Sarai Mian, Turkmaan Gate Road, Aligarh, Uttar Pradesh-202001, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MOHD. RIZWAN JAMEEL
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE OF THE INVENTION:- A METHOD TO REPRESS STARCH SYNTHASE II ACTIVITY IN RICE AND TO OBTAIN STARCH CONTAINING PRODUCTS WITH AN INCREASED AMYLOSE CONTENT In the present invention, selected rice (*Oryza sativa* cv. *indica*) was genetically modified to increase amylose content in seeds. The 'CRISPR-Cas9 genome editing tool was used to knock out three isoforms of starch synthase (SS) viz. OsSSII-1 (LOC_Os10g30156), OsSSII-2 (LOC Os02g51 070) and OsSSII-3 (LOC Os06g 12450). A genetic transformation vector designed with appropriate gRNAs, Cas9, and antibiotic resistance was used to create SS II knockout mutants with an aim to enrich the content of amylose. Developed successfully, the putative rice mutants were rich in amylose content in the seeds; 63% in the best mutant as compared to 23% in wild types (control). The frequencies of bi-allelic or homozygous transgenic lines of SSII-1, SSII-2, and SSJJ-3 in the first generation were tested in a Mendelian fashion of segregated bi-allelic lines in the T1 generation of putative rice mutants. The T 1 generation segregation showed a frameshift mutation. Molecular characterization of putative mutants successfully demonstrated the development of Cas9-free rice mutant with a high amount of amylose in rice seed for human nutrition.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111037468 A

(19) INDIA

(22) Date of filing of Application :18/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND A METHOD FOR PROVIDING AN AI-ENABLED LEAD GENERATION PLATFORM

(51) International classification	:G06Q0030020000, G06F0016958000, G01N0033530000, G01N0033580000, F03B0013260000	(71)Name of Applicant : 1)Yugasa Software Labs Pvt. Ltd. Address of Applicant :Flat 201, Bhawna CGHS, Sector 43, Gurgaon - 122009, India Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Ashish Mittal
(32) Priority Date	:NA	2)Neelu Mittal
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM AND A METHOD FOR PROVIDING AN AI-ENABLED LEAD GENERATION PLATFORM A system (100) for providing an AI-enabled lead generation platform comprises a plurality of visitor devices (108...108n), each associated with a respective visitor; a plurality of advertiser devices (102...102n), each associated with a respective advertiser, that is in turn a first business entity pushing the advertisements; a publishing platform (106) associated with a second business entity and deploying a chatbot for visitors, wherein the visitors are users interacting with the chatbot and seeing/interacting with the advertisements therein; and a processing module (104) connected with the plurality of visitor devices (108...108n), the plurality of advertiser devices (102...102n) and the publishing platform (106). The processing module (104) is associated with the chatbot provider configured to facilitate the complete process of the present invention, from receiving advertisements from advertisers, answering queries of the visitors on the Chatbot to selecting and displaying relevant advertisement to visitors, thereby generating lead for the advertiser. [FIGURE 1]

No. of Pages : 22 No. of Claims : 12

(54) Title of the invention : A NOVEL APPROACH FOR IMPROVING TOPICAL PENETRATION THROUGH FABRICATION OF TRETINOIN NANOCRYSTALS LOADED GEL UTILIZING AN ANTI-SOLVENT PRECIPITATION METHOD

<p>(51) International classification :A61K0009000000, A61K0009060000, A61K0008670000, A61K0009700000, A61K0047100000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. MANISH KUMAR Address of Applicant :MM COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), AMBALA, INDIA Haryana India</p> <p>2)MR. AKASH SHARMA</p> <p>3)DR. ANUJ MALIK</p> <p>4)DR. CHANDRA PRAKASH DORA</p> <p>5)DR. SUMEET GUPTA</p> <p>6)DR. ABHISHEK TIWARI</p> <p>7)DR. VARSHA TIWARI</p> <p>8)DR. BISWA MOHAN SAHOO</p> <p>9)PROF (DR) VIPIN SAINI</p> <p>(72)Name of Inventor :</p> <p>1)DR. MANISH KUMAR</p> <p>2)MR. AKASH SHARMA</p> <p>3)DR. ANUJ MALIK</p> <p>4)DR. CHANDRA PRAKASH DORA</p> <p>5)DR. SUMEET GUPTA</p> <p>6)DR. ABHISHEK TIWARI</p> <p>7)DR. VARSHA TIWARI</p> <p>8)DR. BISWA MOHAN SAHOO</p> <p>9)PROF (DR) VIPIN SAINI</p>
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(57) Abstract :

A NOVEL APPROACH FOR IMPROVING TOPICAL PENETRATION THROUGH FABRICATION OF TRETINOIN NANOCRYSTALS LOADED GEL UTILIZING AN ANTI-SOLVENT PRECIPITATION METHOD The goal of this study was to investigate drug loaded nanocrystals for the topical delivery system and also to enhance the permeation of tretinoin. Tretinoin loaded nanocrystals were prepared using anti-solvent precipitation method. The drug loaded nanocrystals were characterized by some parameters such as, drug content, particle size of nanocrystals, in-vitro permeation etc. In formulation of drug loaded nanocrystals the stabilizer used was Pluronic F-127. Various formulations (NC1-NC9) were produced by varying different parameters, such as type of solvent, drug concentration etc., to obtain an optimized formulation. Formulation NC5 showed lowest particle size of 114.2 nm, least value of polydispersity i.e. 0.232, highest drug content of 95.24% and a cumulative drug permeation of $94.5 \pm 0.28\%$ in 10 hours, it was selected for further development of pH-sensitive nanocrystals loaded gel for topical delivery. Five formulations (NG1-NG5) of drug loaded nanocrystal gel was produced, using porcine skin, a comparative Ex-vivo skin permeation research was conducted between NG1, NC5 and market preparation. When compared to market preparation, the optimized nanocrystal gel (NG1) demonstrated better Ex-vivo skin penetration, demonstrating $68 \pm 0.43\%$ permeability with zero-order kinetics through the porcine skin. Nanocrystals of suitable characteristics were found when studied using transmission electron microscopy. Finally, a sustained release topical formulation capable of delivering drug into the skin via topical administration was created effectively for the treatment of non-melanoma skin cancer

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039523 A

(19) INDIA

(22) Date of filing of Application :01/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : POLYMER-FATTY ACID ENCAPSULATED DRUG COATINGS FOR IMPLANTABLE DEVICES

(51) International classification	:H04W0004800000, H04B0005000000, A61K0031337000, A61L0031160000, A61L0031100000	(71)Name of Applicant : 1)SHAH NIRAJ Address of Applicant :GAYATRI, SHIVAJI NAGAR SATANA ROAD, PIMPALNER, DIST: DHULE MAHARASHTRA-424306, INDIA Maharashtra India 2)BIRARIS GAURAV SHANTARAM
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SHAH NIRAJ
(33) Name of priority country	:NA	2)BIRARIS GAURAV SHANTARAM
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention concerns the implant coatings while focusing on the coronary stent coatings. Core of the invention is to use free fatty acids for the drug encapsulation along with a polymer, for coating on implantable devices. It offers increased drug uptake for diabetic and obese patients. It is related to the coating for the implantable devices, comprising of therapeutic agents, fatty acids, and polymers.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039145 A

(19) INDIA

(22) Date of filing of Application :30/08/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF BIOTIN FUNCTIONALIZED FULLERENE FOR DELIVERY OF IRINOTECAN TO THE COLON TUMORS

(51) International classification	:A61K0009000000, A61K0031418800, A61K0047690000, A61K0009510000, A61K0031166000	(71)Name of Applicant : 1)Manu Sharma Address of Applicant :M. M. College of Pharmacy, M. M. Deemed to be University, Mullana 133207, Haryana India Haryana India 2)Shikha Dhiman 3)Amardeep Kaur 4)Vipin Saini 5)Gurdev Singh 6)Nikhil Gupta
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Manu Sharma 2)Shikha Dhiman 3)Amardeep Kaur 4)Vipin Saini 5)Gurdev Singh 6)Nikhil Gupta
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DEVELOPMENT AND EVALUATION OF BIOTIN FUNCTIONALIZED FULLERENE FOR DELIVERY OF IRINOTECAN TO THE COLON TUMORS Fullerene (C60) has been observed as potential drug delivery agent and amine functionalized C60-NH2 was synthesized by functionalizing ethylenediamine on the surface of C60. The PEI functionalized C60 was further synthesized by polymerization of aziridine on the surface of C60-NH2. Biotin was attached by amide linkage to C60-PEI and anti-colon cancer drug irinotecan (IRI) was encapsulated (C60-PEI-Biotin/IRI). In comparison to free IRI, the conjugate encapsulated (C60-PEI-Biotin/IRI) could cross the cell membrane easily through over-expressed biotin receptors on the cell surface of colon cancer cells and showed better efficacy and less toxicity in colon cancer rat model. The results showed that C60-PEI-Biotin/IRI can be developed as promising colon cancer targeting agent with less toxicity towards vital organs.

No. of Pages : 30 No. of Claims : 4

(54) Title of the invention : INTERNET OF THINGS-ENABLED LOW COST PORTABLE REAL-TIME TRAFFIC CONGESTION MONITORING SYSTEM FOR SMART TRANSPORTATION

(51) International classification	:G08G0001010000, H04L0012801000, H04L0029080000, H04W0004020000, H04W0004700000	(71) Name of Applicant : 1)Dr. Prasenjit Chanak Address of Applicant :Room No. SF-21, Department of Computer Science & Engineering, Indian Institute of Technology (BHU), Varanasi-221005, UP, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Prasenjit Chanak
(33) Name of priority country	:NA	2)Ankit Sinha
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The main objective of this research is to design and develop an Internet of Things (IoT)- enabled, low-cost, small, light and portable device that will automatically monitor traffic congestion ,passing the data to the traffic controller in real-time. The proposed system comprises: (1) portable master unit for local traffic monitoring; (2) a smart local slave unit; (3) a local storage unit; (4) a transmitting unit; and (5) a smart transportation cloud server. The portable master unit is configured to measure a physical parameter of traffic congestion and generate the corresponding measurement data. The smart local slave unit is configured to clean, preprocess, and aggregate the data received from the master unit and transfer it to the smart transportation cloud server. The local storage unit is configured to store the raw data collected by the master unit. The transmitting unit is configured to transmit the measurement data along with the location information to the smart transportation cloud server. The smart transportation cloud server is configured to store the preprocessed data of the aforesaid physical parameters. In the proposed system, the portable master unit collects the real-time physical parameters of the monitoring road and transfers the same to the smart local slave device through single-hop wireless communication. Smart local slave device clean, preprocess, and aggregate received master device data and transfers it to the cloud server through the slave unit. A user/traffic controller can access traffic congestion data. According to these real-life data, the user/traffic controller can make a decision whether the road needs to be followed or not. Also, processing/ structured data also graphically displays the current traffic congestion condition of the monitoring road. The proposed system is also configured to locate the position of the traffic congestion point within the monitoring road network. Therefore, the traffic control office can easily identify the traffic congestion point and clear it quickly.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : A METHOD AND SYSTEM FOR PROVIDING ENCYCLOPEDIA OF WEB-SITES WITH ITS USAGE

(51) International classification	:H04M0015000000, H04W0004240000, G06Q0030020000, G07F0017160000, H04W0004210000	(71) Name of Applicant : 1)SRIVASTAVA SAMIR Address of Applicant :1/125, GOLA KOHANA FATEHGARH U.P-209601, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)SRIVASTAVA SAMIR
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a method and system for providing encyclopedia of web-sites with its usage. The system and method for providing encyclopedia of web-sites with its usage and providing a search-neutral website data modelling, comprising the steps of, but not limited to: selecting, by a processing unit, a plurality of risk responses and further, categorising by the steps: generating a website data storage circuit model provided with a plurality of nodes access and its usage, each of the nodes corresponding to a user; ranking the webpages according the potentials of the nodes and nodes access with its usage to which the webpages correspond. Further, the business model in which search user will be paying to search engine provider and obsoleting of business model in which advertiser pays to search engine provider for listing their contents on the top /within some entries of search result.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : DEVELOPMENT OF THIAZOLE BASED HETEROCYCLES AS DUAL ANTI-INFECTIVE AND CYTOTOXIC AGENTS

(51) International classification	:G01N0033500000, A61K0031343000, C12Q0001180000, A61K0031496000, G01N0021270000	(71)Name of Applicant : 1)MS. DIKSHA SHARMA Address of Applicant :Institute of Pharmaceutical Sciences, Kurukshetra University Kurukshetra, Haryana, Pin Code: 136119 Haryana India 2)DR. ARCHANA SHARMA 3)MR. VISHAL SHARMA 4)MR . KUSHAL KUMAR BANSAL 5)DR. RAKESH PAHWA 6)DR. PRABODH CHANDER SHARMA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MS. DIKSHA SHARMA 2)DR. ARCHANA SHARMA 3)MR. VISHAL SHARMA 4)MR . KUSHAL KUMAR BANSAL 5)DR. RAKESH PAHWA 6)DR. PRABODH CHANDER SHARMA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to development of thiazole based heterocyclic congeners as dual anti-infective and cytotoxic agents. Spectral data such as, IR and ¹H-NMR have been utilized for structural elucidation of newly developed analogues. The newly developed thiazole based analogues were assayed for their in vitro antimicrobial activity effect by using serial broth dilution method while, ampicillin, chloramphenicol and ciprofloxacin (antibacterial), nystatin and griseofulvin (antifungal) were employed as reference drugs for comparison at a dose range from 25-250 µg/ml and 100-500 µg/ml. The aimed analogues were screened for in vitro anthelmintic activity and the results were compared with reference drug albendazole at a dose of 0.2 % w/v. In order to assess the in vitro cytotoxic activity of newly developed analogues, sulforhodamine B (SRB) endpoint assay was performed against two cell lines MCF-7 and Hop-62 and GI50 (median growth inhibition) was recorded.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : A COMPUTERIMPLEMENTED SYSTEM FOR POLICE MANAGEMENT AND METHOD THEREOF

(51) International classification	:A01G0017000000, G06Q0050260000, G01S0007020000, F41B0015020000, C22C0038020000	(71)Name of Applicant : 1)TIWARI, ASHISH Address of Applicant :601, BUTLER TOWER, BUTLER PALACE COLONY, LUCKNOW - 226 001 Uttar Pradesh India 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(31) Priority Document No	:NA	(72)Name of Inventor : 1)TIWARI, ASHISH 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A COMPUTER IMPLEMENTED SYSTEM FOR GENERATING DAILY TASK IN LAW ENFORCEMENT A system for generating daily routine in law enforcement is disclosed. The 5 system is configured for receiving data associated with a criminal activity from a stakeholder device. The system is further configured generating an event based on the data corresponding to one or more criminal activity. The system is further configured for defining a daily priority of the event corresponding to the criminal activity. The system is further configured for 10 generating one or more alert based on the daily priority of the event corresponding to the one or more event in interval of time. The system is further configured for generating one or more reports based on completion of the event corresponding to the data. The system is further configured for transmitting the reports to the one or more stakeholder.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040192 A

(19) INDIA

(22) Date of filing of Application :04/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPUTER IMPLEMENTED SYSTEM FOR CRIME MANAGEMENT AND METHOD THEREOF

(51) International classification	:G06Q0010060000, B01D0003140000, G06Q0050260000, C02F0001160000, A01G0017000000	(71)Name of Applicant : 1)TIWARI, ASHISH Address of Applicant :601, BUTLER TOWER, BUTLER PALACE COLONY, LUCKNOW - 226 001 Uttar Pradesh India 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(31) Priority Document No	:NA	(72)Name of Inventor : 1)TIWARI, ASHISH 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A COMPUTER IMPLEMENTED SYSTEM FOR DETECTING CRIMINAL ACTIVITY BASED ON GPS LOCATION 5 A system for detecting a criminal activity is disclosed. The system is configured for receiving data associated with a criminal activity from a user device. The system is further configured for processing of the data to identify GPS co-ordinates associated with the criminal activity. The system is further configured for identifying one or more individual involved in the 10 criminal activity from the data based on a comparison of an image with a criminal database. The system is further configured for identifying one or more users, and one or more police resources within a predefined vicinity of the criminal activity. The system is further configured transmitting the data associated with one or more of the criminal activity and identified 15 individual involved in the criminal activity.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040193 A

(19) INDIA

(22) Date of filing of Application :04/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR FEEDBACK AND MONITORING AND METHOD THEREOF

(51) International classification	:A61B0017000000, G02B0026000000, H04L0007033000, A61N0001400000, H04L0012260000	(71)Name of Applicant : 1)TIWARI, ASHISH Address of Applicant :601, BUTLER TOWER, BUTLER PALACE COLONY, LUCKNOW, UTTAR PRADESH, INDIA - 226 001 Uttar Pradesh India 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(31) Priority Document No	:NA	(72)Name of Inventor : 1)TIWARI, ASHISH 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A COMPUTER IMPLEMENTED SYSTEM FOR DETECTING CRIMINAL ACTIVITY BASED ON GPS LOCATION 5 A system for detecting a criminal activity is disclosed. The system is configured for receiving data associated with a criminal activity from a user device. The system is further configured for processing of the data to identify GPS co-ordinates associated with the criminal activity. The system is further configured for identifying one or more individual involved in the 10 criminal activity from the data based on a comparison of an image with a criminal database. The system is further configured for identifying one or more users, and one or more police resources within a predefined vicinity of the criminal activity. The system is further configured transmitting the data associated with one or more of the criminal activity and identified 15 individual involved in the criminal activity.

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039678 A

(19) INDIA

(22) Date of filing of Application :01/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : PROCESS FOR PREPARING NON-CEMENTITIOUS LOSS CONTROL COMPOSITION

(51) International classification	:C09K0008460000, C04B0111100000, C09D0133120000, G01N0033960000, C08F0002220000	(71) Name of Applicant : 1)Oil and Natural Gas Corporation Limited Address of Applicant :Pandit Deendayal Upadhyaya Urja Bhawan, 5, Nelson Mandela Marg, Vasant Kunj, New Delhi– 110070, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kishori Lal
(33) Name of priority country	:NA	2)Abhinav Hazra
(86) International Application No	:NA	3)Deepak Painuly
Filing Date	:NA	4)Parvinder Singh
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PROCESS FOR PREPARING NON-CEMENTITIOUS LOSS CONTROL COMPOSITION ABSTRACT 5 A non-cementitious loss control composition and a method for preparing a noncementitious loss control composition is provided. The method comprises adding bentonite to water to form a gel slurry and adding a cross linking agent to the gel slurry. The method further comprises adding a binding agent to the gel slurry and the cross linking agent and adding a strengthening agent to the binding agent, the 10 gel slurry and the cross-linking agent. Further, the method comprises adding a bridging agent to the strengthening agent, the binding agent, the gel slurry and the cross linking agent. The method further comprises adding a retarder to the bridging agent, the strengthening agent, the binding agent, the gel slurry and the cross linking agent, where the loss control composition is a lightweight thixotropic composition 15 that is prepared in a density range of 10 Pounds Per Gallon (ppg) to 16 ppg.

No. of Pages : 42 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039717 A

(19) INDIA

(22) Date of filing of Application :02/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A LACRON CARVER

		(71)Name of Applicant :
		1)DR. AANCHAL TANDON
		Address of Applicant :466/29B, GOPAL SADAN PEER
		BUKHARA CHOWK, LUCKNOW-UTTAR PRADESH-226003,
		INDIA Delhi India
(51) International classification	:H04J0014020000, H04B0010270000, H04B0010516000, H04L0027360000, D03D0051280000	2)DR. GAURAV SINGH
		3)DR. ROHIT JAISWAL
		4)DR. AMIT GAUR
(31) Priority Document No	:NA	5)DR. AMRITA JAYASWAL
(32) Priority Date	:NA	6)DR.ABHINAV SRIVASTAVA
(33) Name of priority country	:NA	7)DR.TRIPTI SHAHI
(86) International Application No	:NA	8)DR.ANMOL JAIN
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)DR. AANCHAL TANDON
(61) Patent of Addition to Application Number	:NA	2)DR. GAURAV SINGH
Filing Date	:NA	3)DR. ROHIT JAISWAL
(62) Divisional to Application Number	:NA	4)DR. AMIT GAUR
Filing Date	:NA	5)DR. AMRITA JAYASWAL
		6)DR. ABHINAV SRIVASTAVA
		7)DR. TRIPTI SHAHI
		8)DR. ANMOL JAIN

(57) Abstract :

A LECRON CARVER The present invention relates to a lecron carver which is small in size (pocket carver) for carving anatomy in wax blocks. It is a single shank with multiple attachments to it which are placed over the same shank. Each attachment is of different length and width with attachment of different sized scooped as well.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111039740 A

(19) INDIA

(22) Date of filing of Application :02/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SELF-CHARGING ELECTRIC BIKE

(51) International classification	:H01L0029780000, B62M0006500000, B62M0006900000, B60L0058210000, B62M0006450000	(71)Name of Applicant : 1)DR. VIJAY RAMKISAN LAKWAL Address of Applicant :C1/1, 2ND FLOOR, EXPRESS MARKET NITIKHAND-3 INDIRAPURAM, GHAZIABAD 202010, UTTAR PRADESH, INDIA Uttar Pradesh India 2)MS. AISHWARYA PREMSING RAJPUT
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DR. VIJAY RAMKISAN LAKWAL
(33) Name of priority country	:NA	2)MS. AISHWARYA PREMSING RAJPUT
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SELF-CHARGING ELECTRIC BIKE The present invention relates to a self-charging electric bike. The wheel (driven wheel) of a bike or vehicle rotates freely as a result of displacement of the vehicle. The self-charging electric bike comprises an electric BLDC hub motor, lithium ion battery, alternator, solar panel. Alternator is coupled to the driven wheel as well as driving wheel to receive torque therefrom. Alternator is configured to facilitate conversion of the received torque into electrical energy and then which is further stored in the lithium ion battery. The battery stores the electrical energy received from the alternator and supplies the same to the electric BLDC hub motor. Hence electric power generated continuously by the bike or vehicle whenever it is in motion. A driving wheel coupled to the BLDC hub motor, receives torque from lithium ion battery to displace the bike. A driven wheel is coupled to the bike and rotates as a result of the displacement of the bike.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041471 A

(19) INDIA

(22) Date of filing of Application :15/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SHELF-LIFE EXTENDING BOXES FOR FRESH FRUITS, VEGETABLES AND FLOWERS AND A PROCESS FOR PREPARATION THEREOF

(51) International classification	:B65D0081240000, A23B0007140000, A01N0063300000, B01J0037020000, B01J0019000000	(71)Name of Applicant : 1)SIDHARTH SAREEN Address of Applicant :211, B Rani Jhansi Road, Civil Lines, Ludhiana-141001, India Punjab India 2)MUKUL SAREEN
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SIDHARTH SAREEN
(33) Name of priority country	:NA	2)MUKUL SAREEN
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to shelf-life extending boxes for fresh fruits, vegetables and flowers and a process for preparation thereof comprising a substrate coated with at least one chemical selected from ethylene adsorbers, ethylene oxidizers, carbon dioxide releasers, oxygen absorbers or reducers, microbial/bio inhibitors and moisture absorbers, which is provided with an over-coat so as to prevent direct contact of chemicals with food. The chemical(s) can be mixed with a carrier prior to the coating. The substrate can be impregnated with the chemical(s) during manufacturing thereof.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041512 A

(19) INDIA

(22) Date of filing of Application :15/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM FOR IMPROVING KEY POINTS LOCALIZATION AND METHOD THEREOF

(51) International classification	:G06N0003080000, G06N0020000000, G06K0009460000, H04N0021450000, H04W0004029000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Vasudev Singh
(32) Priority Date	:NA	2)Dr. Shuaib Ahmed
(33) Name of priority country	:NA	3)Ms. Isha Dua
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system and method for improving localization of key points of body of a monitored entity. The system and method comprises monitoring, through a monitoring unit 102, an entity, and correspondingly generate a first set of data packets. Further, it includes identifying, at the localization unit 106, key points within body of the monitored entity from the first set of data packets; and deriving, using the learning engine 110, multiple heat maps, where each of the derived multiple heat maps corresponding to the identified key points within the body of the monitored entity. It also includes predicting location of the one or more key points within the body the entity; and creating a loss function based upon comparison of one or more intensity values with the corresponding predefined threshold values, and thereby enabling localization of the key points.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040696 A

(19) INDIA

(22) Date of filing of Application :08/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : CAFFEIC ACID AMINE COMPLEXES

(51) International classification	:A61K0031216000, C08F0220240000, C07F0005020000, C07H0021040000, C23F0001260000	(71)Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Jayati Ray Dutta
(32) Priority Date	:NA	2)Ramakrishnan Ganesan
(33) Name of priority country	:NA	3)Hemanjali Mude
(86) International Application No	:NA	4)Pranay Amruth Maroju
Filing Date	:NA	5)Aniket Balapure
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are compounds of formula (I), or a pharmaceutically acceptable salt thereof, OH o e H Also provided herein is a pharmaceutical composition, which includes a compound of formula (I) or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040814 A

(19) INDIA

(22) Date of filing of Application :08/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A HERBAL FOOD SUPPLEMENT COMPOSITION

(51) International classification	:A61K0036810000, A23L0033105000, A23L0033160000, A61K0036185000, A61K0036230000	(71)Name of Applicant : 1)VINOD AGGARWAL Address of Applicant :2, Flag Staff Road, Civil Lines, Delhi 110054, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)VINOD AGGARWAL
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A Herbal Food Supplement Composition A herbal food supplement composition is disclosed which may be mixed with beverages, solids, semi-solids, and liquid food products. The food supplement composition comprising: herbal extracts selected from a group comprising, 1% by weight of a brahmi extract, 1% by weight of a shank pushpi extract, 0.5% by weight of a tulsi extract, 0.5% by weight of an ashwagandha extract, and/or a combination thereof; 60% by weight of soya powder added to the herbal extracts; a sugar base added to the mix of the soya powder and the herbal extracts in a predefined quantity required to obtain a mixture; and a calcium aluminum silicate compound added to the mixture to attain the food supplement composition.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041036 A

(19) INDIA

(22) Date of filing of Application :10/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MAGNETIC DETACHABLE COUPLING MEANS FOR ASSEMBLING FURNITURE PARTS

(51) International classification	:F16B0012200000, A47B0047000000, F16B0012460000, F16B0012120000, F16B0012260000	(71)Name of Applicant : 1)Dhaval Kapoor Address of Applicant :S/o Dinesh Kapoor, Opposite Panchayat Bhawan, Civil Lines, Moradabad, Husainpur Hamir, Uttar Pradesh 244001 Uttar Pradesh India 2)Shraddha Dalakoti
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dhaval Kapoor 2)Shraddha Dalakoti
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A MAGNETIC DETACHABLE COUPLING MEANS FOR ASSEMBLING FURNITURE PARTS A magnetic detachable coupling means for assembly furniture parts. The magnetic detachable coupling means include a metal tube having a magnet. The metal tube may be hollow from inside. Th magnetic detachable coupling means may act as a magnetic joint or a magnetic connector that may be employed for joining furniture parts. The magnet may be attached inside the metal tube. One part of the furniture may comprise protruding elements over which the metal tube may be positioned to assemble the parts of the furniture. One or more parts of the furniture may hold together with the piece of magnet included in the metal tube of the metal tube. The magnet may be attached to the metal tube through a screw or using an adhesive.

No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : STAND-ALONE SOLAR POWERED LITHIUM-ION BATTERY ELECTRIC DENTAL CHAIR FOR RURAL HEALTH CARE APPLICATION

<p>(51) International classification :A47G0029120000, A61G0015120000, A61G0015100000, A61G0015000000, A61G0015020000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. (Dr.) S. Devaneyan Address of Applicant :Director – Innovation & Entrepreneurship Meenakshi Medical College Hospital & Research Institute, Enathur, TamilNadu, India-631 552 Tamil Nadu India</p> <p>(72)Name of Inventor : 1)Prof. (Dr.) S. Devaneyan</p>
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(57) Abstract :

In India, 700 million people are living in 7 lakhs of village panchayats and many of them do not have access to dental health care. Existing urban dental health care center has got fully equipped but unable to perform service for the people in rural regions. Also setting up of dental care center in every village is not practically possible. Most of the rural primary health centers are providing general consultancy only to rural people, if they are given dental consultancy, people who dental-related health issues can be addressed. If a dentist with electric dental chair provides dental consultancy and services to rural regions, many of them get benefitted. Cost effective Stand-alone Solar Powered Electric Dental Chair for Rural Health care applications are essential one in case of Dentist provide consultancy and services to rural regions. As the solar power control system is dismantle mechanism, while transporting the units can be dismantled, transported and setup in the rural regions where rural-dental-camp services are required. As this innovation has simple technology, many young and rural entrepreneurs can start manufacturing and which creates more employment. Hence, design development and demonstration of stand-alone solar powered dental electric chair is ideated and proposed.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040194 A

(19) INDIA

(22) Date of filing of Application :04/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPUTER IMPLEMENTED SYSTEM FOR INFORMATION MANAGEMENT AND METHOD THEREOF

(51) International classification	:G06Q0010060000, B01D0003140000, B01D0053000000, C02F0001160000, C10G0007000000	(71)Name of Applicant : 1)TIWARI, ASHISH Address of Applicant :601, BUTLER TOWER, BUTLER PALACE COLONY, LUCKNOW, UTTAR PRADESH, INDIA - 226 001 Uttar Pradesh India 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(31) Priority Document No	:NA	(72)Name of Inventor : 1)TIWARI, ASHISH 2)SINGH, ANKITA 3)TIWARI, KAILASH NARAYAN 4)DHALI, MITHUN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A COMPUTER IMPLEMENTED SYSTEM FOR GENERATING GEOLOCATION BASED CRIMINAL DATABASE 5 A system for generating geo location based criminal data is disclosed. The system is configured for receiving a data from one and more applications from on user device. The system is further configured for processing the data, corresponding to the one and more applications to identify one or more stakeholders and a data points corresponding to each stakeholder from the 10 one or more stakeholders. The system is further configured for generating a neural network based on the one or more stakeholders and the data points corresponding to each stakeholders. The system is further configured for receiving a query corresponding to a target stakeholder from the set of stakeholders. The system is further configured for fetching one or more 15 target data points corresponding to the target stakeholder from the neural network. The system is further configured for transmitting the one or more target data points to the user device.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043527 A

(19) INDIA

(22) Date of filing of Application :25/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SENSITIVITY ANALYSIS OF RIDE CHARACTERISTICS OF FOUR-WHEEL VEHICLE UNDER RANDOM ROAD SURFACE UNDULATIONS

(51) International classification	:B60W0050000000, B60W0030020000, B60G0017016500, G06F0030170000, B60W0040060000	(71)Name of Applicant : 1)RAKESH CHANDMAL SHARMA Address of Applicant :MECHANICAL ENGINEERING DEPARTMENT, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, INDIA Haryana India
(31) Priority Document No	:NA	2)AMIT VASHIST
(32) Priority Date	:NA	3)NEERAJ SHARMA
(33) Name of priority country	:NA	4)GURPREET SINGH
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)RAKESH CHANDMAL SHARMA
(87) International Publication No	: NA	2)AMIT VASHIST
(61) Patent of Addition to Application Number	:NA	3)NEERAJ SHARMA
Filing Date	:NA	4)GURPREET SINGH
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SENSITIVITY ANALYSIS OF RIDE CHARACTERISTICS OF FOUR-WHEEL VEHICLE UNDER RANDOM ROAD SURFACE UNDULATIONS The vehicle performance is examined based on its specific performance indices. 5 These specific performance indices include stability, ride comfort, steering ability etc. The vehicle ride comfort is an important factor of vehicle quality and receiving large attention. The majority of previous investigations are focused on vertical vibration analysis of the sprung mass of the vehicle subjected to vertical excitations from the road surface. The random vertical and lateral undulations of the road 10 surface have been accounted for in the analysis and represented by the Power Spectral Density function. The vehicle ride is assessed based on ISO 2631-1 annexure and the vehicle overall ride index is determined. The vehicle verticallateral is evaluated based on 1-8 hrs comfort boundary laid in ISO specifications. In further study, the vehicle inertial, suspension and geometric parameters which 15 critically influence the vertical and lateral ride have been identified. The vehicle's vertical ride covers a relatively wide band of frequencies under discomfort level of ISO comfort boundaries and is found to be more crucial as compared with the lateral ride, the recommendations are made to improve the vertical ride in preference. The total value of weighted RMS acceleration of the vehicle determined from the 20 present analysis is 2.47 m/s² and the ride comfort index was found to be in the range 'very uncomfortable' specified in ISO 2631-1 annexure. The present study provides a basis for the vehicle designer for the modification in the vehicle parameter values to obtain optimum ride comfort.

No. of Pages : 30 No. of Claims : 8

(54) Title of the invention : MODELING AND SIMULATION OF HUMAN BODY-VEHICLE-TRACK SYSTEM FOR THE INVESTIGATION OF RIDE COMFORT

(51) International classification	:A61K0009000000, G06N0007000000, G01M0007020000, B62D0055104000, G01M0017080000	(71)Name of Applicant : 1)RAKESH CHANDMAL SHARMA Address of Applicant :MECHANICAL ENGINEERING DEPARTMENT, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, INDIA. Haryana India 2)NEERAJ SHARMA 3)GURPREET SINGH 4)SRIHARI PALLI
(31) Priority Document No	:NA	(72)Name of Inventor : 1)RAKESH CHANDMAL SHARMA 2)NEERAJ SHARMA 3)GURPREET SINGH 4)SRIHARI PALLI
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present paper analyzes the influence of the track and rail vehicle vibrations on the biodynamic human subject. A mathematical model of 47 degrees of freedom human body-vehicle-track vibratory system is formulated for the analysis of ride behavior of the vehicle and human body system. The human body, vehicle, and track system are assigned 7, 37, and 3 degrees of freedom, respectively, and the system is formulated using Newton's method. Stationary random irregularities of the track are accounted for in the analysis, represented by the power spectral density function, and are used as an input to the system. The ride comfort of the rail vehicle is examined based on ISO comfort specifications. The biodynamic human subject, vehicle, and track system are evaluated independently and integrated to examine the response of one system due to the excitation of another.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : VIDEO CALLING STETHOSCOPE

(51) International classification	:H04N0007140000, A61B0007020000, A61B0007040000, H04N0021478800, H04L0029060000	(71) Name of Applicant : 1)UMESH PARMAR Address of Applicant :73, SHIVAJI NAGAR AGRA UTTAR PRADESH-282010, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)UMESH PARMAR
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA :NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

VIDEO CALLING STETHOSCOPE A video calling stethoscope (1 00) comprises an auscultation probe (300), and a sound processing device (200). An auscultation probe includes (300) a sound guiding tube (1) with an inbuilt microphone (2). A sound processing device (200) includes an audio processing module (3), a bluetooth module (4), and a speaker (5). Auscultation probe (300) is connected to one end of the sound guiding tube which is detachably coupled to the input end of microphone (2), the microphone's (2) output end is electrically connected to the audio processing module's (3) input end through the auscultation probe data cable (8), and the audio processing module's (3) output end is electrically connected to the bluetooth module (4). Battery (7) is also included inside the sound processing device (200) which is electrically coupled to the microphone (2), an audio processing module (3), blue tooth module (4), and speaker (5). [

No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111042686 A

(19) INDIA

(22) Date of filing of Application :21/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A GEAR SET BACKLASH ARRESTER MECHANISM FOR AUTOMOBILE TRANSMISSION UNITS

(51) International classification	:F16H0055170000, F16H0015380000, F16H0055180000, G01M0013021000, F16H0057120000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1, Nelson Mandela Road, Vasant Kunj, New Delhi – 110070, India Delhi India (72) Name of Inventor : 1)SUNIL SHETE 2)SIRAJ MANSURI
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a gear set backlash arrester mechanism (100) for automobile transmission units. The gear set includes a dog gear (102), a main gear (108), and a friction gear (106) mounted freely between the dog gear (102) and the main gear (108). The gear geometry of the friction gear (106) is same as gear geometry of the main gear (108). The friction gear (106) comprises an additional tooth (110) with respect to the main gear (108), and the friction gear (106) is mounted between the dog gear (102) and the main gear (108) with a spring washer (104).

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111044347 A

(19) INDIA

(22) Date of filing of Application :30/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYNTHESIS AND CHARACTERISATION OF NOVEL 5-PYRAZYL-2-SULFANYL-1, 3, 4-OXADIAZOLE DERIVATIVES

(51) International classification	:C07D0413040000, C07D0271060000, C07D0241260000, A01N0043820000, C07D0241300000	(71)Name of Applicant : 1)DR. RINA DAS Address of Applicant :ASSISTANT PROFESSOR, M.M. COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE) UNIVERSITY, AMBALA, HR, INDIA-133207 Haryana India
(31) Priority Document No	:NA	2)PROF. (DR.) DINESH K. MEHTA
(32) Priority Date	:NA	3)PROF. (DR.) SUMEET GUPTA
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)DR. RINA DAS
Filing Date	:NA	2)PROF. (DR.) DINESH K. MEHTA
(87) International Publication No	: NA	3)PROF. (DR.) SUMEET GUPTA
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYNTHESIS AND CHARACTERISATION OF NOVEL 5-PYRAZYL-2-SULFANYL-1, 3, 4-OXADIAZOLE DERIVATIVES The present work was aimed to synthesize and determine antitubercular and antimicrobial potential of some novel 5-pyrazyl-2-sulfanyl-1, 3, 4-oxadiazole derivatives 5(a-g) from a well-established antitubercular agent pyrazinoic acid as precursor. Initially pyrazinoic acid was esterified which was followed by hydrazinolysis to produce hydrazide and then refluxed to obtain 2-sulfanyl-5-pyrazyl-1, 3, 4-oxadiazole with CS₂. The product was then refluxed with different alkyl halides to give 5-pyrazinyl-2-substituted sulfanyl-1, 3, 4-oxadiazole derivatives. Characterization of the structures of newly synthesized compound were done by TLC, IR, ¹H NMR and Mass spectrometry.

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111044348 A

(19) INDIA

(22) Date of filing of Application :30/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : IN SILICO DESIGNING OF A POTENT LIGAND LIG33 TARGETING MTOR/FRB DOMAIN

(51) International classification	:G16B0015000000, G16C0020300000, G16C0020600000, C12N0009120000, C07K0001000000	(71)Name of Applicant : 1)Dr. VARRUCHI SHARMA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATICS, SRI GURU GOBIND SINGH COLLEGE SECTOR 26, CHANDIGARH, INDIA-160019 Chandigarh India 2)Dr. ANIL K. SHARMA
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. VARRUCHI SHARMA
(33) Name of priority country	:NA	2)Dr. ANIL K. SHARMA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

IN SILICO DESIGNING OF A POTENT LIGAND LIG33 TARGETING MTOR/FRB DOMAIN The aim of our study was to develop a potent drug candidate against the mechanistic target of rapamycin (mTOR/FRB) domain having a critical role in the aetiology of breast cancer. More specifically, the FRB domain in the P13K/AKT/mTOR pathway has been a vital player in the disease progression in breast cancer. By using structure-based drug designing (SBDD), best possible targets have been identified and developed. The 3-D structure of the target protein was generated using ITASSER, while the ligands were generated against the most suitable active site of the target using standard tools for the active site identification. Furthermore, the seed molecule was drawn using Chems sketch which was then grown into the pocket using Ligbuilder. The obtained ligands were further validated using online programs for bioavailability and toxicity. The study concludes with the observation that lig33 was the best fit molecule having the potential antagonistic properties to target the mTOR/FRB domain, thus having therapeutic implications in breast cancer.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111040601 A

(19) INDIA

(22) Date of filing of Application :07/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : OUTPUT VOICE TRACK GENERATION

(51) International classification	:H04N0021658000, H04N0021482000, H04R0003000000, G10L0021013000, G06F0003160000	(71)Name of Applicant : 1)GAN STUDIO INC Address of Applicant :25743 Wood Creek Rd, Ref. Perrysburg, Ohio 43551, United States of America U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)BHOOSHAN, Suvrat
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

OUTPUT VOICE TRACK GENERATION Approaches for generating an output voice track corresponding to an input text data using a voice generation system are described. In an example, by 5 the voice generation system, a reference voice sample and the input text data is obtained. In an example, form the reference voice sample, a voice characteristic information and corresponding attribute values are extracted. The voice characteristic information may thus be processed based on a voice generation model. The voice generation model is to assign a weight 10 for each of the voice characteristics based on their attribute values. Once a weighted voice characteristic information is generated, an output voice track corresponding to the input text data is generated.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041814 A

(19) INDIA

(22) Date of filing of Application :16/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : RAIN ATTENUATION AND METEOROLOGICAL PARAMETER MONITORING DEVICE USING IOT

(51) International classification	:A61B0005000000, G01J0001420000, G01W0001140000, G01W0001020000, G01S0013950000	(71)Name of Applicant : 1)R2E Technologies Private Limited Address of Applicant :Tech Counsellor, HN-02, Near SaiVihar, Motipur, Premnagar, Dehradun, Uttarakhand Uttarakhand India 2)Diwaker Pant 3)Mukesh Chandra Kestwal
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sunil Semwal 2)Ajit Kumar Yadav 3)Parag Verma 4)Renu Thapliyal 5)Udayveer Mittal 6)Nagendra Kumar 7)Ankur Dumka 8)Anuj Thapliyal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An Rain attenuation and Meteorological Parameter Monitoring Device using IoT to measure and monitor the physical parameters, including meteorological data which are monitored by sensors; the data when compared with the predicted and measured vaue help in defining the regional rain maps. The sensors are places in the compact way to store the value of locality to predict real time, accurate data of the geographical location. The device also store the rain data through the rain guage sensors of the locality which helps in defining the actual rainfall rate of the location. Rainfall rate and signal loss, collectively termed as rain attenuation, known as rain map are developed using the device and the data this portable device stored and process.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043997 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR AN ADAPTIVE HEARING AID

(51) International classification	:H04R0025000000, A61B0005120000, G16H0050500000, G06N0020000000, G16H0010600000	(71)Name of Applicant : 1)Sarthak Mangla. Under Guardianship of Mr. Rajiv Mangla Address of Applicant :46, Pocket 2, Jasola, New Delhi - 110025, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sarthak Mangla. Under Guardianship of Mr. Rajiv Mangla
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYSTEM AND METHOD FOR AN ADAPTIVE HEARING AID ABSTRACT OF THE INVENTION A method for operating a hearing-aid system 110 configured to generate an adaptive individual patient model comprising, creating an audiogram configuration and a gain table for a patient 202 using a pure tone audiometry and an adaptive individual patient model by a processor 112 and generating a processed sound 306 using an input speech from an audio dataset 122a and the audiogram configuration and the gain table, and an assessment score based on quality of the processed sound 306 is received from the patient 202 and selecting a training dataset 122b from a plurality of training datasets 122b for the patient 202 each based on a set of the input speech, the audiogram configuration, the processed sound 306 and the assessment score and augmenting the selected training dataset 122b by adding a noise to the input speech, with the augmented selected training dataset 122b for the patient 202 updating the adaptive individual patient model.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111044131 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : PHARMACOLOGICAL EVALUATION OF LITCHI CHINENSIS AND GLYCINE MAX IN THE TREATMENT OF NEURODEGENERATIVE DISORDER ASSOCIATED WITH METABOLIC SYNDROME

(51) International classification	:A61K0036480000, A23L0033105000, A61K0036770000, A23L0011200000, A61K0031045000	(71)Name of Applicant : 1)PROF (DR.) SUMEET GUPTA Address of Applicant :DEAN & PRINCIPAL, M M COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA-133207, HARYANA Haryana India 2)SAMRAT CHAUHAN
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)PROF (DR.) SUMEET GUPTA
(33) Name of priority country	:NA	2)SAMRAT CHAUHAN
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PHARMACOLOGICAL EVALUATION OF LITCHI CHINENSIS AND GLYCINE MAX IN THE TREATMENT OF NEURODEGENERATIVE DISORDER ASSOCIATED WITH METABOLIC SYNDROME The present study was intended to explore the potential of Litchi chinensis (fruit pericarp) and Glycine max (seeds coat) extracts in the management of Neurodegenerative disorders associated with metabolic syndrome. Firstly, the extracts were screened for phytochemical constituents (qualitatively) showed the presence of active phytochemicals including, phenols, flavonoids, tannins, saponins etc. Metabolic syndrome (MetS) was induced by high-fat diet and weekly administration of dexamethasone phosphate (0.3 mg/kg, i.p.) for 60 days in male Wistar rats. MetS was assessed by evaluating levels of fasting blood glucose, serum insulin level, lipid levels, systolic blood pressure, body weight and Waist circumference. Oral administration with L. chinensis and G. max extracts decreases the body weight, waist circumference, systolic blood pressure, fasting blood glucose and insulin levels as compared to the positive group in MetS rats. Development of neurodegeneration was assessed using elevated plus maze and Morris water maze in which exploratory and cognitive behaviors were impaired in the positive group rats. Administration of extracts of both plants has shown substantial positive effects in exploratory and cognitive behavior in rats as compared to the positive group. Histopathological changes in brain hippocampus tissues in positive group rats were also improved by administration of extracts. These outcomes suggested that oral administration of Litchi chinensis and Glycine max extracts may attenuate the symptoms of neurodegeneration lead by metabolic syndrome.

No. of Pages : 30 No. of Claims : 4

(54) Title of the invention : SERVICE OPTIMIZATION USING INTERNET OF THINGS

(51) International classification	:G06Q0030020000, G06Q0050120000, G06Q0010060000, E04H0003020000, G06Q0090000000	(71)Name of Applicant : 1)DR SHARAD SHARMA Address of Applicant :PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING DEPTT., MAHARISHI MARKANDESHWAR ENGG. COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-133207 Haryana India 2)DR MAHESH UNIYAL 3)DR. JYOTI SHARMA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)DR SHARAD SHARMA 2)DR MAHESH UNIYAL 3)DR. JYOTI SHARMA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SERVICE OPTIMIZATION USING INTERNET OF THINGS IoT is not about connecting things or services but it is about changing the way things and services deliver value. In the process, things are becoming services, and services are becoming more intelligent. The Internet of Thing is poised to touch every aspect of our lives. The question for hotels is: How will IoT in hospitality affect the industry. In terms of the customer experience, IoT technology enables hotel owners to improve hotel conditions and offer a comfortable and customized experience to their guests while also cutting down on their waiting times. In the highly competitive business era, customer satisfaction is the prime secret to survival, and they choose products and services that are more in line with their needs and expectations. This is a key factor in attracting new users and retaining old ones. The main goal of a successful hotel business is to satisfy customers. A tool proposed in 1994 called SERVQUAL to measure the quality of service in service organizations. According to SERVQUAL, service quality can be measured by identifying the gap between customers' expectations of the service and their perception of the actual performance of the service provider. In this context, for satisfying more customers, nowadays Technology is playing a significant role and has replaced social and emotional interaction in serving consumers. It is also providing efficient, high-quality services in attracting and retaining old customers. The main objective of this article is to invent new technologies for hotels to measure customer satisfaction and improve service quality. It is believed that the research results can be used to guide hotel managers to use the technology that has the greatest impact on customer satisfaction, thereby improving hotel performance.

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : FORMULATION OF MOLASSES AS GROWTH SUPPLEMENT TO OKRA

<p>(51) International classification :C05F0011080000, A01N0065000000, C05F0005000000, A01G0007000000, C05F0011000000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)RAJ SINGH Address of Applicant :PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWER (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA, INDIA. Haryana India</p> <p>2)SUSHIL KUMAR UPADHYAY</p> <p>3)VIKAS KUMAR</p> <p>4)MANOJ SINGH</p> <p>5)MUKESH YADAV</p> <p>6)INDU SHARMA</p> <p>(72)Name of Inventor :</p> <p>1)RAJ SINGH</p> <p>2)SUSHIL KUMAR UPADHYAY</p> <p>3)VIKAS KUMAR</p> <p>4)MANOJ SINGH</p> <p>5)MUKESH YADAV</p> <p>6)INDU SHARMA</p>
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(57) Abstract :

FORMULATION OF MOLASSES AS GROWTH SUPPLEMENT TO OKRA Vegetables are important for health due to their contents as minerals, antioxidant, vitamins, phytochemicals and dietary fiber. All these substances are related to lower the risks for development of health problems. The use of chemical fertilizers affected both soil health and crop productivity in the long term. An experiment was conducted for the assessment of molasses effect on okra (ladies' finger) under natural environment at the Botanical Garden of Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala (Haryana). During investigation all the attributes for growth stages of plants as per molasses treatment and control groups were observed. The treatment of molasses concentrations viz. 5%, 3% and 1% to response of plant growth was recorded after standard post sowing interval and compared with the control group as well. The present work revealed the better plant growth and yields of okra in soil blended with molasses as organic fertilizer than the field without molasses. Therefore, authors wish to recommend the molasses as profound organic fertilizer for eco-friendly farming and sustainable agriculture.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : SOLAR POWERED NEEM AND TURMERIC STEAM OPERATIONAL DISINFECTANT TENT FOR HOSPITAL ENTRY THROUGHOUT COVID-19 PANDEMIC

(51) International classification	:A61K0036906600, A01N0065000000, A01N0065260000, A61L0009160000, A61L0011000000	(71)Name of Applicant : 1)Dr. S. Devaneyan Address of Applicant :A-78, Sushant Lok II, Golf course road, Sector 55, Gurugram, Haryana Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. S. Devaneyan
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The corona virus pandemic has shuttered almost all around the world. COVID-19 has so far killed 35,000 people and infected nearly 7.4 lakhs as on 30th March 2020 across the globe. In India many public servants like Police/defense forces, doctors, nurses, paramedics, drivers and other are working around corona affected persons closely. It is India's responsibility to safeguard them to continue their service. to In order to prevent them, a disinfection Tent through Steam of NEEM and TURMERIC Herbs for Public Servants in COVID-19 Pandemic is very much useful in this critical period and completely sterilize the entire body. Neem extract with Turmeric powder mix water is converted in to steam by steam generator and sprayed via venturi-piped showers inside the semi closed tent. Person can go inside fully and stand for few seconds which sterilize their entire body. This unit has been designed and able to develop indigenously in low cost, which is removing 90% of bacteria, viruses, including novel corona virus. With this instant disinfection technology, we prevent people in public from being infected by all microorganisms, including the corona virus.

No. of Pages : 8 No. of Claims : 3

(54) Title of the invention : ANALYSIS OF RIDE AND STABILITY OF AN ICF RAILWAY COACH

(51) International classification	:G06Q0010040000, B61F0005220000, E04B0002860000, G06F0030170000, G06F0119080000	(71)Name of Applicant : 1)RAKESH CHANDMAL SHARMA Address of Applicant :MECHANICAL ENGINEERING DEPARTMENT, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-133207, AMBALA, INDIA Haryana India 2)SUNIL KUMAR SHARMA 3)NEERAJ SHARMA 4)SAKSHI SHARMA
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)RAKESH CHANDMAL SHARMA
(33) Name of priority country	:NA	2)SUNIL KUMAR SHARMA
(86) International Application No	:NA	3)NEERAJ SHARMA
Filing Date	:NA	4)SAKSHI SHARMA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

MODELING AND SIMULATION OF HUMAN BODY-VEHICLE-TRACK SYSTEM FOR THE INVESTIGATION OF RIDE COMFORT The present paper analyzes the influence of the track and rail vehicle vibrations on the 5 biodynamic human subject. A mathematical model of 47 degrees of freedom human bodyvehicle-track vibratory system is formulated for the analysis of ride behavior of the vehicle and human body system. The human body, vehicle, and track system are assigned 7, 37, and 3 degrees of freedom, respectively, and the system is formulated using Newton's method. Stationary random irregularities of the track are accounted for in the analysis, represented by 10 the power spectral density function, and are used as an input to the system. The ride comfort of the rail vehicle is examined based on ISO comfort specifications. The biodynamic human subject, vehicle, and track system are evaluated independently and integrated to examine the response of one system due to the excitation of another.

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111043876 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYNTHESIS AND ANTITUMOR POTENTIAL OF GLUTATHIONE RESPONSIVE CAMPTOTHECIN-BIOTIN CONJUGATE VIA SELF IMMOLATIVE DISULPHIDE LINKER

(51) International classification	:A61K0031704000, A61K0047550000, A61K0036185000, A61K0047020000, A61K0047690000	(71)Name of Applicant : 1)MANU SHARMA Address of Applicant :M.M. COLLEGE OF PHARMACY, M.M. DEEMED TO BE UNIVERSITY, MULLANA-133207 HARYANA INDIA Haryana India 2)AMARDEEP KAUR 3)SHIKHA DHIMAN
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MANU SHARMA 2)AMARDEEP KAUR 3)SHIKHA DHIMAN
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYNTHESIS AND ANTITUMOR POTENTIAL OF GLUTATHIONE RESPONSIVE CAMPTOTHECIN-BIOTIN CONJUGATE VIA SELF IMMOLATIVE DISULPHIDE LINKER Camptothecin (CPT) isolated from Camptotheca acuminta is one of the most promising anticancer natural product but it produces various side effects because of its non selectivity towards cancer cells. To overcome these adverse effects, we have synthesized biotin conjugate of camptothecin which was linked via a self immolative disulfide linker (CPT-SS-Biotin). The structure of conjugate was characterized by spectroscopic techniques and stability and drug release studies were performed in the presence of glutathione (GSH) by using HPLC. Anti-colon cancer efficacy of CPT-SS-Biotin was examined on male Wistar Albino rats. In-vivo tumor suppression studies along with serological parameters and histopathological studies showed that conjugate produced high therapeutic effect and remarkably reduced toxic effects in comparison to free CPT. The results suggested that biotinylation of camptothecin via disulfide linker can be developed as safe and efficacious cancer therapeutics.

No. of Pages : 30 No. of Claims : 2

(54) Title of the invention : DEVICE TO SUBSTANTIALLY REDUCE AIR POLLUTION IN CITIES AND OTHER PLACES

(51) International classification	:C02F0001040000, G04B0019220000, B05B0007080000, B01D0053140000, C10L0001185000	(71)Name of Applicant : 1)BHUPINDER SINGH GILL Address of Applicant :H-45, SARITA VIHAR, NEW DELHI- 110076 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)BHUPINDER SINGH GILL
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Filtration is an effective method to separate dust from atmospheric air; from environment point of view, this method is mostly employed in room air purifiers which proves to be quite effective. This invention proposes filtration of air on the city scale. A large number of filters are mounted on a mobile platform which is towed on the road by a prime mover. A large number of such mobile platforms are moved in cities such that air enters the filters due to relative motion between the mobile platform and the stagnant air. The air gets filtered while passing through the filter and clean air is thrown back into the atmosphere. The number of mobile platforms to be deployed in a City will depend upon the size of the city. As a variant, the movement of the air into the filters can be augmented by providing electrically or otherwise driven fans suitably placed on the front side of the filters. These fans can be one, two or many fans for each mobile platform. Fig. shows a conceptual view of the device.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : AN IMPROVED SUBUNIT VACCINE AGAINST INCLUSION BODY HEPATITIS (IBH) IN CHICKEN

<p>(51) International classification :A61K0039000000, A61K0039120000, C07K0014005000, A61K0039390000, A23L0033100000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)G. B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY Address of Applicant :GOVIND BALLABH PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR-263145, UTTARAKHAND, INDIA Uttarakhand India</p> <p>(72)Name of Inventor : 1)DR. GARIMA PANDEY 2)DR. RAJESH KUMAR 3)DR. AAKANKSHA TIWARI 4)DR. PRAKASH BHATT</p>
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(57) Abstract :

AN IMPROVED SUBUNIT VACCINE AGAINST INCLUSION BODY HEPATITIS (IBH) IN CHICKEN In the present invention, recombinant fiber protein of a field isolate PANTNAGAR/HA-14/R-21 (FAdV- 2/11) of Fowl adenovirus D was used to formulate a vaccine against IBH in chicken. SPF chickens were immunized with different doses of recombinant fiber protein with FCA and dose (25µg/bird) provided best protection was selected. In second experiment, broilers were immunized with 25µg/bird along with different adjuvants viz ; montanide, resiquimod, saponin and FCA and different immune parameters were studied. Macrophage function test revealed that resiquimod group released maximum concentration of nitric oxide. Maximum thickness of foot web was observed in montanide group at 72hrs post inoculation of DNCB. Montanide group showed maximum lymphocyte proliferation at 21st DPI. Neutralization index of montanide group was highest at 28th DPI. Viral DNA in faeces was detected in all groups at 7th DPC, in montanide group 3 out of 6 faecal samples were positive while on 10th DPC only challenged control group was positive for viral DNA in faeces. 25µg/bird dose with montanide showed best immune protection in broilers against challenge with homologous virus. A candidate subunit vaccine comprising of a recombinant fiber protein (25µg/bird) with montanide as adjuvant was formulated.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111044175 A

(19) INDIA

(22) Date of filing of Application :29/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : PROCESS FOR THE PREPARATION OF THE HERBICIDE AND ANTIMICROBIAL COMPOUND (2S)-2-({4-CHLORO-6-[(2-HYDROXYETHYL)AMINO]-1,3,5-TRIAZIN-2-YL}AMINO)-3-PHENYLPROPANAMIDE

(51) International classification	:C12Q0001180000, A61K0031530000, A61K0008410000, A01N0025340000, A01N0059160000	(71)Name of Applicant : 1)DR. HARIOM NAGAR Address of Applicant :SCHOOL OF APPLIED SCIENCES, SURESH GYAN VIHAR UNIVERSITY, JAIPUR – 302017 INDIA Rajasthan India
(31) Priority Document No	:NA	2)DR. SARMAD MOIN
(32) Priority Date	:NA	3)MS. AISHWARYA SHARMA
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)DR. HARIOM NAGAR
Filing Date	:NA	2)DR. SARMAD MOIN
(87) International Publication No	: NA	3)MS. AISHWARYA SHARMA
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PROCESS FOR THE PREPARATION OF THE HERBICIDE AND ANTIMICROBIAL COMPOUND (2S)-2-({4-CHLORO-6-[(2-HYDROXYETHYL)AMINO]-1,3,5-TRIAZIN-2-YL}AMINO)-3-PHENYLPROPANAMIDE In the present invention the process for the preparation of the herbicide and antimicrobial compound (2S)-2-({4-chloro-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl}amino)-3-phenylpropanamide claimed. Synthesize compound shows very good herbicidal and antimicrobial activity when tested on weeds, bacteria, and fungi. On the basis of in vitro analysis the (2S)-2-({4-chloro-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl}amino)-3-phenylpropanamide is good candidate to utilized as herbicide and antimicrobial.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : ELECTRONIC STRUCTURE AND BOND LENGTHS COMPARISON OF GALLIC ACID AND METHYL GALLATE MOLECULES EMPLOYING HARTREE FOCK AND DENSITY FUNCTIONAL THEORY STUDIES

<p>(51) International classification :G16C0020300000, A61K0031235000, G16C0010000000, A61K0031045000, C01B0032336000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number:NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Anil Kumar Sharma Address of Applicant :Department of Biotechnology, M.M.E.C., Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala (Haryana) India-133207 Haryana India</p> <p>2)Anupam Sharma 3)Anil Sharma 4)Vandana Sharma 5)J. K. Sharma 6)O.P.Singh</p> <p>(72)Name of Inventor :</p> <p>1)Anil Kumar Sharma 2)Anupam Sharma 3)Anil Sharma 4)Vandana Sharma 5)J. K. Sharma 6)O.P.Singh</p>
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(57) Abstract :

ELECTRONIC STRUCTURE AND BOND LENGTHS COMPARISON OF GALLIC ACID AND METHYL GALLATE MOLECULES EMPLOYING HARTREE FOCK AND DENSITY FUNCTIONAL THEORY STUDIES Gallic acid (GA) and methyl gallate (MG) are abundantly present in several fruits and medicinal plants. Being the natural phenolic compounds, GA and MG have been attributed to have promising therapeutic, biological and pharmacological properties. A comparative study of these molecules was carried out using Hartree Fock Method and density functional theory (DFT/B3LYP) methods employing 6- 311G,6-311G(d),6-311-G(d,p) basis sets to compute the bond lengths. In Gallic acid the bond length values of O11-H12 and O13-H14 were found to be higher in comparison to Methyl gallate (MG). This led us to conclude that GA molecule displays significant reactivity over MG. Comparative quantum chemical study of electronic structure determination, is further suggestive of reactive sites in GA and MG.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111046140 A

(19) INDIA

(22) Date of filing of Application :11/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD AND APPARATUS FOR COMMUNICATION SYSTEM SERVING VEHICLES

(51) International classification	:H04N0009040000, H04L0025030000, H04N0007173000, H04W0076100000, G01J0003460000	(71) Name of Applicant : 1)NOKIA TECHNOLOGIES OY Address of Applicant :Karakaari 7, FI – 02610 Espoo, FINLAND, Finland
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GUPTA, PULLAB
(33) Name of priority country	:NA	2)KHARE, SAURABH
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD AND APPARATUS FOR COMMUNICATION SYSTEM SERVING VEHICLES A technique comprising: based on at least (i) one or more indications that a user equipment registered to a mobile communication system is associated with a vehicle and (ii) absence of an indication that the vehicle is authorised by a traffic management entity, requesting subscription to a data analytics service for notifications about one or more events indicating travel of the user equipment.

No. of Pages : 55 No. of Claims : 77

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111047901 A

(19) INDIA

(22) Date of filing of Application :21/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : DATA TYPE BASED VISUAL PROFILING OF LARGE-SCALE DATABASE TABLES

(51) International classification	:G06F0016220000, H04H0060370000, C12Q0001688600, G06F0003033000, H04N0021466000	(71)Name of Applicant : 1)TREASURE DATA, INC. Address of Applicant :800 W. El Camino Real, Suite 180 Mountain View, California 94040 United States of America U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dilyan Kovachev
(33) Name of priority country	:NA	2)Pradeep Kumar Reddy
(86) International Application No	:NA	3)Gurbaksh Sharma
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DATA TYPE BASED VISUAL PROFILING OF LARGE-SCALE DATABASE TABLES A computer-implemented method can comprise establishing programmatic connections to a digitally stored first database comprising over one million records, each of the records comprising columns; reading a configuration file that specifies tables in the database; for each particular table, forming and submitting a plurality of queries to the database, each of the queries specifying data aggregation operations, and in response thereto, receiving result sets of records of the database; calculating metadata metrics that characterize columns of the records in the result sets and storing the metadata metrics in tables for string column statistics, numeric column statistics, date column statistics, based upon a particular data type among different data types of the columns; generating presentation instructions which when rendered cause displaying one or more graphical visualizations in a graphical user interface.

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048124 A

(19) INDIA

(22) Date of filing of Application :22/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : TAILOR MADE AND GENERAL DIGITAL ADVERTISEMENT REPORTING BY FACE RECOGNIZATION ON THIRD PARTY DEVICE

(51) International classification	:G06Q0030020000, G06F0009451000, G06F0021620000, G06F0016330000, H04L0029080000	(71)Name of Applicant : 1)ANJANI KUMAR GUPTA Address of Applicant :D-144 KAMLA NAGAR, AGRA UTTAR PRADESH-282005, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)ANJANI KUMAR GUPTA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A TAILOR MADE/GENERAL DIGITAL ADVERTISEMENT REPORTING SYSTEM BY FACE RECOGNITION ON THIRD PARTY DEVICE [034] The present invention discloses a tailor made/general digital advertisement 5 reporting system by face recognition on third party device. The system includes, but not limited to, a means for receiving the video feed according to recognized faces of users within the video feeding unit and representing each recognized face as data comprising one or more attributes for each face and representing the advertisement related data. Further, an input device for performing a 10 clustering to group the advertised data to form a set of clusters and after formation of the set of clusters, performing the steps of: recognizing the face of a user interested in that cluster and representing the additionally-recognized face as additional advertised data comprising one or more attributes.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : AN APPARATUS AND A METHOD FOR REMOVAL OF MOISTURE CONTENT FROM THE MATERIAL BEING PROCESSED FOR MAKING AN EXTRUDED FILM ON A RAFFIA TAPELINE, AND A RAFFIA TAPELINE INTEGRATED WITH APPARATUS FOR MOISTURE REMOVAL

(51) International classification	:B29C0048900000, B29C0048880000, B29C0048250000, B29C0048090000, B29C0048920000	(71)Name of Applicant : 1)Lohia Corp Limited Address of Applicant :D3/A, Panki Industrial Estate, Kanpur - 208 022, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Gaurav Lohia
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus and a method for removal of moisture content from the material being processed for making an extruded film on a raffia tapeline using dehumidifier based air drying system (B) is disclosed. The dehumidifier air drying 10 system (B) comprises a drying unit (11) and a dehumidifier unit (15). The drying unit (11) comprises at least one loader (12) having anti-heat transfer coating and an insulation layer on its inside into which resins are transferred. The dehumidifier air dryer units (B) are based on desiccant dryers which operate as closed loop air circulation system where heated dry air is circulated over a thermoplastic resin, 15 which releases absorbed moisture into the passing air. This wet air subsequently passes through a desiccant molecular sieve material. The desiccant material is able to absorb moisture from the circulating air making it dry again.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048184 A

(19) INDIA

(22) Date of filing of Application :22/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : WATER SOLUBLE COPOLYESTER AND METHOD OF PRODUCING THEREOF

(51) International classification	:B65B0009040000, B32B0027360000, A23K0020260000, H05K0001110000, H01L0025100000	(71)Name of Applicant : 1)Sandeep Agarwal Address of Applicant :1503 KM-08 Jaypee Kosmos, Jaypee Wishtown, Sector 134 Noida 201304 India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sandeep Agarwal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WATER SOLUBLE CO-POLYESTER RESIN, CO-POLYESTER COATING COMPOSITION AND METHOD OF PRODUCING THEREOF The present invention discloses a water soluble co-polyester resin comprising a reaction 5 product of reclaimed polyester, at least one diacid, at least one diol and at least one triacid and/or tetraacid. The present invention also discloses a water soluble co-polyester coating composition, comprising the water soluble co-polyester resin. Particularly, the present invention discloses a method of producing a water-soluble co-polyester resin from reclaimed polyester. The method comprises steps of reacting a reclaimed polyester with a diol to produce 10 a depolymerised polyester and then reacting the depolymerised polyester with a diacid and a diol to produce a polymerised product. The polymerised product is reacted with a tri carboxylic acid or a tetra carboxylic acid to produce a water-soluble co-polyester resin. The present invention further relates to a water-soluble co-polyester coating having the water-soluble copolyester resin. The coated films provide improved printability and metal adhesion properties.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111048192 A

(19) INDIA

(22) Date of filing of Application :22/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : WATER SOLUBLE COPOLYESTER AND METHOD OF PRODUCING THEREOF

(51) International classification	:B65B0009040000, B32B0027360000, A23K0020260000, H05K0001110000, H01L0025100000	(71)Name of Applicant : 1)Sandeep Agarwal Address of Applicant :1503 KM-08 Jaypee Kosmos, Jaypee Wishtown, Sector 134 Noida 201304 India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sandeep Agarwal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WATER SOLUBLE CO-POLYESTER RESIN, CO-POLYESTER COATING COMPOSITION AND METHOD OF PRODUCING THEREOF The present invention discloses a water soluble co-polyester resin comprising a reaction 5 product of reclaimed polyester; at least one diacid and/or their esters; and at least one diol. The weight % of the reclaimed polyester is in the range of 5-80 wt %, diacid and/or their esters is in the range of 20-50 wt% and diol is in the range of 40-80 wt%. The present invention also discloses a method of producing the same from reclaimed polyester. The method comprises steps of reacting a reclaimed polyester with a diol at a temperature of 210 °C to 290 °C for 1- 10 3 hours to produce a depolymerized polyester and then reacting the depolymerized polyester with one or more diacidsto produce a polymerized product wherein the diacid have sulfo group. The present invention also discloses a water-soluble co-polyester coating composition having the water-soluble co-polyester resin. The coated films provide improved printability and metal adhesion properties.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041515 A

(19) INDIA

(22) Date of filing of Application :15/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM FOR PREDICTING USER RATING AND METHOD THEREOF

(51) International classification	:G06F0003010000, G06K0009000000, G06Q0030020000, G10L0025630000, G06T0011600000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr. Sujay Babruwad 2)Mr. Srikrishna Bhat 3)Mr. Joydeep Medhi
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system and method for predicting user rating, which comprises detecting face of a user viewing a streamed sets of multimedia frames, and correspondingly generating a first set of data packets, and extracting first attributes of the detected face from the generated first set of data packets. Further, the extracted first attributes are mapped with a first dataset comprising pre-defined first attributes, and subsequently emotion recognition unit 312 calculates an emotion index. It also includes detecting second attributes of eyes of the user, estimating gaze of the eyes based on the detected second attributes, and correspondingly, an attention estimation unit 314 computes a gaze index. A weighted average of the calculated emotion index and computed gaze index is determined, and correspondingly a user rating is predicted, and fed into recommendation engine 402.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041595 A

(19) INDIA

(22) Date of filing of Application :15/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR FLAMING, DISPENSING ADHESIVE & LENS PRESSING IN A HOUSING OF A HEAD LAMP

(51) International classification	:B05C0005020000, F21Y0115100000, B05C0011100000, F01C0021100000, B24B0013005000	(71)Name of Applicant : 1)LUMAX INDUSTRIES LIMITED Address of Applicant :Plot No.16, Sector 18, Maruti Complex, Gurgaon -122015, Haryana, India Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Kailash Sharma
(32) Priority Date	:NA	2)Sandeep Kaushik
(33) Name of priority country	:NA	3)Tapan Kumar Kaushik
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM FOR FLAMING, DISPENSING ADHESIVE & LENS PRESSING IN A HOUSING OF A HEAD LAMP

A system (100) for flaming, dispensing adhesive & lens pressing in a housing of a head lampcomprises a robotic arm (102), configured to run above a channel of the housing, comprises a first nozzle (104), connected with a fuel container, configured to blow plasma on the channel of the housing, a second nozzle (106), connected with an adhesive dispenser (107), configured to dispense the adhesive on the channel of the housing, an upper cylinder (109) connected with an upper jig mounting plate (108) configured to hold a lens, a lower cylinder (110) connected with a lower jig mounting plate (112) configured to hold the housing with the channel. Further, the upper cylinder (109) is configured to push the lens onto the channel of the housing. In addition, the adhesive present in the channel is adapted to glue the lens over the housing. [FIGURE 1]

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111041596 A

(19) INDIA

(22) Date of filing of Application :15/09/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM FOR FITTING OF AIMING BOLT AND PRE AIMING IN A HEAD LAMP

(51) International classification	:B60Q0001068000, B22F0003030000, H02K0001220000, H01Q0001120000, B26F0001400000	(71)Name of Applicant : 1)LUMAX INDUSTRIES LIMITED Address of Applicant :Plot No.16, Sector 18, Maruti Complex, Gurgaon -122015, Haryana, India Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Kailash Sharma
(32) Priority Date	:NA	2)Sandeep Kaushik
(33) Name of priority country	:NA	3)Tapan Kumar Kaushik
(86) International Application No	:NA	4)Raj Singh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM FOR FITTING OF AIMING BOLT AND PRE AIMING IN A HEAD LAMP A system (100) for fitting of aiming bolt (216) and pre aiming in a head lamp, the system (100) comprises a first cylinder (102) having a first punch (104), a second cylinder (106) having a second punch (108), a fixture (110), disposed above a platform (114), configured to receive a housing (202), wherein the housing (202) comprises a reflector (208), received in the housing (202), comprises a first retainer (214) for an aiming bolt (216), a second retainer (210) for a levelling motor, a pivot (212). The platform (114) is configured to move the fixture (110) to and fro in a horizontal direction on Y axis. The first cylinder (102) and the second cylinder (106) is configured to move the first punch (104) and the second punch (108) in a vertical direction on Z axis. The first punch (104) is configured to push the aiming bolt (216) in the housing (202) with a locking washer (304) using the first retainer (214). The second punch (108) is configured to fix the levelling motor on the second retainer (210). [FIGURE 1]

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049538 A

(19) INDIA

(22) Date of filing of Application :29/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A COMPOSITION OF PANT READY TO EAT IRON RICH EXTRUDED SNACK AND METHOD THEREOF

(51) International classification	:A23L0007117000, A23L0007100000, A23L0011000000, A23P0030200000, A23G0003480000	(71)Name of Applicant : 1)G. B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY Address of Applicant :GOVIND BALLABH PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR-263145, UTTARAKHAND, INDIA Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)MS. SHWETA SURI
(33) Name of priority country	:NA	2)DR. ANURADHA DUTTA
(86) International Application No	:NA	3)DR. NAVIN CHANDRA SHAHI
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A COMPOSITION OF PANT READY TO EAT IRON RICH EXTRUDED SNACK AND METHOD THEREOF A method to make Pant Ready to Eat Iron rich Extruded Snack was developed. Barnyard millet, defatted soy flour, amla powder and rice flour was incorporated in making Iron rich extruded snack. Alma (Indian goose berry) was added to improve the ascorbic acid content and enhance the iron absorption from snack. The extruded snack was superior in nutritional quality, having high iron, protein & ascorbic acid content as compared to the control rice based extruded snack. The extruded snack was also acceptable in terms of sensory parameters viz., taste, appearance, crunchiness, texture, mouth feel, color and overall acceptability.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049850 A

(19) INDIA

(22) Date of filing of Application :30/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD AND APPARATUS FOR INTENT-GUIDED AUTOMATED SPEECH RECOGNITION

(51) International classification	:G10L0015260000, G10L0015180000, G10L0015220000, H04M0003510000, G10L0015300000	(71)Name of Applicant : 1)UNIPHORE TECHNOLOGIES INC Address of Applicant :1001 Page Mill Road Building 4, Suite 100-B Palo Alto, CA 94304 U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Aravind GANAPATHIRAJU
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In a method and apparatus for intent-guided automatic speech recognition (ASR) in customer service center environments, the method includes detecting, at a call analytics server (CAS), from a call audio of a call between at least two persons comprising a first person and a second person, an intent expressed by one of the first person or second person. The method further includes verifying that the detected intent is on a predefined list of intents and focusing the range of applicability of a language prediction (LP) module, where the LP module uses one or more language models (LMs), used by the CAS to generate a transcribed text from the call audio, to a conversational domain corresponding to the detected intent.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049851 A

(19) INDIA

(22) Date of filing of Application :30/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD AND APPARATUS FOR IMPROVED ENTITY EXTRACTION FROM AUDIO CALLS

(51) International classification	:G06F0040295000, G06N0003080000, G06N0003040000, G10L0015060000, G10L0015220000	(71)Name of Applicant : 1)UNIPHORE TECHNOLOGIES INC Address of Applicant :1001 Page Mill Road Building 4, Suite 100-B Palo Alto, CA 94304 U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Aravind GANAPATHIRAJU
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In a method and apparatus for improved entity extraction in an audio of a conversation or a call, the method includes generating, at a server, from speech data of a conversation between at least two persons, text data and associated preliminary entity prediction data, using an automated speech recognition (ASR) engine comprising one or more neural networks trained via multi-task training. The method further includes identifying, using the text data and associated preliminary entity prediction data, at least one named entity in said speech data.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111050028 A

(19) INDIA

(22) Date of filing of Application :01/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM FOR VOLTAGE REGULATION AND PROTECTION OF HUMAN BEING FROM ELECTRICAL SHOCK

(51) International classification	:A61Q0017040000, F41H0013000000, A01K0015020000, H01F0027290000, H01M0002300000	(71)Name of Applicant : 1)SINGH, BANSHRAJ Address of Applicant :4/1/1A, AZAD SQUARE, SOUTH MALAKA, PRAYAGRAJ UTTAR PRADESH-211003, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SINGH, BANSHRAJ
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to System for voltage regulation and protection of human being from electrical shock. The objective of the present invention is to solve the problems in the prior art technologies related to voltage regulation and protection of human from electric shocks. The system is so designed to give stabilized output voltage I an input I output I nature of fault display circuit, an electronic controller to maintain stabilized output voltage, a synchronous motor, a variable voltage transformer and a fixed toroidal transformer with control circuit. The present invention solves the problems of smooth operation of voltage regulation and shock performance ofElectrical Supply.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111050036 A

(19) INDIA

(22) Date of filing of Application :01/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR CHECKING CORONAVIRUS VACCINATION STATUS

(51) International classification :G06Q0010100000,
G05B0019409000,
G06F0009451000,
G06Q0010080000,
A61K0039000000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :
1)CHITKARA INNOVATION INCUBATOR FOUNDATION
Address of Applicant :SCO: 160-161, SECTOR – 9C,
MADHYA MARG, CHANDIGARH – 160009, INDIA
Chandigarh India

(72)Name of Inventor :
1)Swapandeep Kaur
2)Rubina Dutta
3)Priyanka Malhotra
4)Dr. Jasminder Kaur Sandhu
5)Dr. Amanpreet Sandhu

(57) Abstract :

Title: SYSTEM AND METHOD FOR CHECKING CORONAVIRUS VACCINATION STATUS ABSTRACT A system (100) for checking a Coronavirus vaccination status of a user, wherein the system (100) comprising: a registration module (200) to register an operator; a request initiation module (202) to initiate a request by the registered operator by scanning a unique code using a scanner (116) of a vaccination status application (110); a data processing module (204) to process the initiated request for fetching the Coronavirus vaccination status of the corresponding user; an information retrieval module (206) to retrieve information based on the Coronavirus vaccination status; and an output module (208) to display the Coronavirus vaccination status and the information on a user interface (114) of an operator device (102). Claims: 10; Figures: 3 Figure 1 is selected.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111050068 A

(19) INDIA

(22) Date of filing of Application :01/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : APPARATUS AND METHOD FOR GENERATING OXYGEN

(51) International classification	:F25J0003040000, A23L0002540000, B01D0053220000, C01B0013020000, C02F0001740000	(71)Name of Applicant : 1)CHITKARA INNOVATION INCUBATOR FOUNDATION Address of Applicant :SCO: 160-161, SECTOR – 9C, MADHYA MARG, CHANDIGARH – 160009, INDIA Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Amit Kumar
(33) Name of priority country	:NA	2)Garvit Malik
(86) International Application No	:NA	3)Supriya Sharma
Filing Date	:NA	4)Aveksha Sharma
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: APPARATUS AND METHOD FOR GENERATING OXYGEN ABSTRACT An oxygen generating apparatus (100), comprising: an oxygen collection unit (102). The oxygen collection unit (102) comprises: an oxygen level sensor (110) to sense a level of oxygen in plants (108); a first controller (114) configured to: receive the sensed level of oxygen from the oxygen level sensor (110); compare the sensed level of oxygen with a first pre-set oxygen level and a second pre-set oxygen level; and activate an air extraction pump (112) to extract an oxygenated air from the plants (108), when the sensed level of oxygen exceeds the first pre-set oxygen level. The apparatus (100) further comprising: an oxygen separation unit (104) configured to separate a liquid oxygen from the oxygenated air by using a fractional distillation process; and an oxygen accumulation unit (106) configured to accumulate the separated liquid oxygen in a high-pressure oxygen cylinder (132). Claims: 10; Figures: 9 Figure 1A is selected.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : ELECTRIC TOASTER

(51) International classification	:A47J0037080000, G08B0021180000, B60L0053310000, A47J0037060000, G01L0009060000	(71)Name of Applicant : 1)CHITKARA INNOVATION INCUBATOR FOUNDATION Address of Applicant :SCO: 160-161, SECTOR – 9C, MADHYA MARG, CHANDIGARH – 160009, INDIA Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Poonam Jindal
(33) Name of priority country	:NA	2)Harsimranjit Kaur
(86) International Application No	:NA	3)Isha Gupta
Filing Date	:NA	4)Geetanjali
(87) International Publication No	: NA	5)Amandeep Kaur
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: ELECTRIC TOASTER ABSTRACT An electric toaster (100) comprising: an upper housing (104) pressed over a lower housing (102) to roast slices of bread. The upper housing (104) comprises: a countdown timer (120) to count to a pre-determined time duration; and a power indicator (122) to generate a signal indicating a power supply status of the electric toaster (100). The electric toaster (100) comprising: a pair of cooking plates (106a-106b) having toasting surfaces brought into contact with opposed surfaces of the slices of bread; a handle (108) comprises a pressure sensor (126) to sense a pressure applied on the handle (108); and a control unit (110) to: receive the generated signal and the sensed pressure; compare the sensed pressure with a pre-defined pressure; activate the countdown timer (120), when the sensed pressure is less than the pre-defined pressure; and generate an alert by a sound unit (124) when the pre-determined time duration is elapsed. Claims: 10; Figures: 3 Figure 1 is selected.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054782 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM FOR RESCHEDULING TASK OF AN EMPLOYEE BASED ON LOCATION

(51) International classification	:G06Q0010060000, G01C0021340000, G06Q0010100000, G01C0021200000, G08G0001010000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)BANSAL, Ajit
(32) Priority Date	:NA	2)AGARWAL, Sumit
(33) Name of priority country	:NA	3)SINGH, Avtar
(86) International Application No	:NA	4)SARASWAT, Ekta
Filing Date	:NA	5)TEWARI, Anurag
(87) International Publication No	: NA	6)BAJWA, Sonia
(61) Patent of Addition to Application Number	:NA	7)SHARMA, Ajay
Filing Date	:NA	8)BANSAL, Rajni
(62) Divisional to Application Number	:NA	9)SOOD, Kiran
Filing Date	:NA	10)TYAGI, Pallavi
		11)BALUSAMY, Balamurugan
		12)GUPTA, Vijay Prakash

(57) Abstract :

The present disclosure relates to a system (100) for rescheduling task of an employee based on location. The system (100) can receive location information of the employee and analyse traffic conditions of the received location information to detect time to reach office by the employee, and the traffic conditions can be analysed using learning techniques. The system (100) is further configured to reschedule tasks such as meetings and projects allocated for the day, upon detection of one or more traffic conditions on route of the employee. Also, the employee is enabled to generate a ticket to inform the system (100) about late coming to the office due to traffic condition, and the system (100) match the given reason with traffic condition of the route of the employee to check whether the reason is factual.

No. of Pages : 24 No. of Claims : 8

(54) Title of the invention : PARTICULATE SEPARATOR FOR MITIGATING EFFECTS OF THERMAL RUNAWAY OF A BATTERY PACK

(51) International classification	:B01D0045080000, B01D0053960000, G01N0001220000, G01N0015020000, B01D0045060000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Mr. Prithviraj Pochampalli
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A particulate separating system for a battery pack is disclosed, comprising particulate separators 112 configured in a flow path of a gaseous mixture released from the battery pack. Each particulate separator 112 includes at least one cup shaped particulate collector 202 to trap particulate matter from the gaseous mixture. The particulate collector 202 is configured to move along a circular path about a first rotational axis 214, and further configured to rotate about a second rotational axis 216. Each particulate collector 202 is coupled to a particulate collector arm 212, and during the rotation of the particulate collector 202 along the circular path, the particulate collector arm 212 moves over a ramp 218 that causes the particulate collector arm 212 to deflect and store elastic energy, which elastic energy is used at an end of the ramp 218 to catapult the trapped particulate matter from the particulate collector 202 away.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054784 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A WOUND HYDRATING COMPOSITION FOR TOPICAL APPLICATION AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0036906600, A61Q0019000000, A61L0026000000, A61K0009000000, A61K0008340000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Varsha
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to wound healing compositions. More specifically, the disclosure provides a wound hydrating composition for topical application comprising amino acids obtained from egg yolk, bovine serum albumin, or their combination, Curcuma longa, glycerine, and 2-amino-2-methylpropanol. The composition supplements nutrients to the wounds and balances the amount of moisturization required for wound healing without drying or slowing the progress of healing. The disclosure also provides a method of preparing the composition.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054785 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : GARMENT TO DETECT AND ASSIST IN NEUROLOGICAL DISORDER

(51) International classification	:A61B0005000000, A61B0005110000, A61B0005080000, A61B0005040200, A61M0021000000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)KHULLAR, Vikas
(32) Priority Date	:NA	2)SINGH, Harjit Pal
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A garment (100) to be worn by a user (i.e. a patient of neurological disorder) is disclosed. The garment (100) include one or more sensors (102) to detect physiological parameters of the user, and transmit the collected physiological parameters to one or more mobile computing devices (202) associated with one or more entities such as parent, caretaker and therapist. The entity may control the garment (100) from remote location to calm down the user, when any parameter is found beyond the pre-defined range. The garment (100) may be inflated to apply pressure on various body parts of the user to provide comfort to the user.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054801 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : ENHANCED BRIGHTNESS SOLUTION-PROCESSED INORGANIC ABX3 PEROVSKITE LEDS USING A PEG-PVP ADDITIVE

(51) International classification	:H01L0051000000, H01L0051420000, C09K0011060000, H04N0005235000, H01L0033200000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi – 110 016, (India) Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SINGH, Madhusudan
(32) Priority Date	:NA	2)AKHTAR, Parvez
(33) Name of priority country	:NA	3)DUA, Nidhi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a composite material for a blended perovskite LED device, the composite material comprises a perovskite metal halide perovskite ABX3 is doped with the polymers PEG-PVP to form composite material ABX3-PEG-PVP. The present also relates to a method of fabrication of blended perovskite LED device. According to aspects of the disclosure, the blended (ABX3-PEG-PVP) perovskite device exhibit a lower turn-on voltage (30-40%), higher luminance (170-210%), higher external quantum efficiency (50-70%) when compared to the non-blended device (ABX3). The present subject matter utilizes the combination of the PEG and PVP polymer to increase the surface coverage ratio, pinhole-free, and uniformity of the thin film to enhance the brightness and external quantum efficiency (EQE) of the light-emitting diode (LED). Thus, a smooth, uniform and pinhole-free perovskite film is obtained.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054815 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL POLYHERBAL PREPARATION (POL-6) FOR THE TREATMENT OF ALCOHOL WITHDRAWAL SYMPTOMS

(51) International classification	:A61K0036530000, A61K0036810000, A61K0036230000, A61K0036380000, A61K0036185000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Lalit Sharma
(33) Name of priority country	:NA	2)Dr. Aditi Sharma
(86) International Application No	:NA	3)Dr. Girdhari Lal Gupta
Filing Date	:NA	4)Dr.Gopal Singh Bisht
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present subject matter relates to a method (100) for a novel polyherbal preparation (POL-6) for the treatment of alcohol withdrawal symptoms. The method comprises extracting plant material from a plurality of plants, wherein the plurality of plants include a Bacopa monnieri plant, a Hypericum perforatum plant, a Centella asiatica plant, a Withania somnifera plant, a Camellia sinensis plant, and an Ocimum sanctum plant. Further, the method comprises drying the extracted plant material. Further, the method comprises mixing all the dried plant material in a predefined ratio, wherein the predefined ratio is 1:1:1:1:1:1. Further, the method comprises filtering the mixed dried plant material, wherein the filtering is performed by a sieve of mesh size 40. Thereafter, the method comprises storing the filtered dried plant material in a firmly clean container to avoid any heat and moisture and using the filtered dried plant material in treating the alcohol withdrawal symptoms.

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054816 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR MEASURING QUALITY OF SOIL

(51) International classification	:G06T0007000000, G01N0033240000, H04N0017000000, C05G0003800000, G06K0009460000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Brij Bhushan Sharma
(33) Name of priority country	:NA	2)Pankaj Vaidya
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present subject matter relates to a method (200) for measuring quality of soil. The method (200) includes receiving one or more images of the soil from a camera (102). The method (200) further includes processing the received one or more images to obtain values of RGB. Further, the method (200) includes comparing the obtained values of RGB with a pre-stored color chart. Further, the method (100) includes determining concentration of chemical elements in the soil based on one or more parameters including HUE, VALUE, and CHROMA from the obtained value of RGB. Thereafter, the method (200) includes providing an output indicating the concentration of the chemical elements to disclose the quality of the soil.

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049376 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A FOOTWEAR FOR OPTIMIZING HEALTH AND A METHOD TO OPERATE THE SAME

(51) International classification	:G01N0035000000, A63B0071080000, A43B0003100000, G01N0035100000, A43B0001000000	(71)Name of Applicant : 1)Vaibhav Engineering Works Address of Applicant :G-948, Ph. III, RIICO Ind. Area, Bhiwadi, Rajasthan, India Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)VINOD KUMAR
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A footwear (100) for optimizing health is provided. The footwear includes a wooden base (102), a plurality of holes (104), a foam base (108), a strap (110). The wooden base is positioned at an upper layer of the footwear and fabricated with compressed wooden dust. The plurality of through holes is chiselled along the surface within the wooden base and placed at an equidistance, wherein the plurality of through holes provides cushioning to the wooden base in an operative condition. The foam layer (108) is positioned at a bottom portion of the wooden base thereby forming the bottom layer (112) of the footwear. The foam layer is fixedly firmly attached to the wooden base and provides elasticity to a user in the operative condition. The strap adapted to hold the wooden base and the foam layer. The wooden base and the foam layer act as a single unit. FIG. 1

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049478 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : UNIQUE HORSE SHOE DESIGN FOR A ROTARY TORREFACTION DEVICE

(51) International classification	:C10L0009080000, C10L0005440000, C10B0053020000, F26B0023020000, A61B0017700000	(71) Name of Applicant : 1)SUKHDEEP SINGH RANA Address of Applicant :76, Ground Floor, Hemkunt Colony, Greater Kailash Part-I, Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)SUKHDEEP SINGH RANA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present invention provide a device for torrefaction of a raw material, such as a biomass. The device includes a set of two screws, that are interconnected in a horse-shoe shape, where the screws may allow for conveying while breaking or deformation of the biomass being torrefied in the device. The biomass may be fed into the first screw, travels through the first screw, towards the loop of the horse-shoe shape, and enters the second screw. The heat provided to the device for thermally heating the material, may be fed at one end of the second screw, then may travel along the horse-shoe shape to reach, the first screw via a hot air duct, and then may exit the device from one end of the first screw; thereby, the travel path traversed by the raw material inside the device is opposite to the travel path traversed by the heat within the device.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055194 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEMS, METHODS, APPARATUS, DEVICES, AND DATABASES FOR TRACKING SKILL PROFICIENCY

(51) International classification	:G06Q0010060000, G06Q0010100000, H04M0003523000, G06Q0050200000, H04M0007000000	(71)Name of Applicant : 1)Prashant Kumar Address of Applicant :A004, Tower A Affection, Ground Floor, Paramount Emotions, Bisrakh, Sector 1 Greater Noida West- 201306, Gautam Budh Nagar, Uttar Pradesh Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Prashant Kumar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides automation in grading candidates according to individual resource parameters which are utilised to analyse individual proficiency level. The one or more individual resources are selected from at least one proficiency level skill set beginner, intermediate, advanced level, and the like. The multiple individual resources parameters disclose current status of proficiency level of the selected skill sets of the candidates.

No. of Pages : 35 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055206 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : OPTICAL FIBRE RIBBON WITH OPTIMIZED NUMBER OF BONDS

(51) International classification	:G02B0006440000, G02B0006360000, F21V0008000000, C01B0033020000, G02B0006380000	(71) Name of Applicant : 1)Sterlite Technologies Limited Address of Applicant :3rd Floor, Plot No. 3, IFFCO Tower, Sector 29 Gurugram, Haryana -122002 Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Atul Mishra
(33) Name of priority country	:NA	2)Sourabh Singh Panwar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides an optical fibre ribbon (100) with intermittent bonding. The optical fibre ribbon (100) includes a plurality of optical fibres (102). The plurality of optical fibres (102) are placed parallel to each other. The plurality of optical fibres (102) adjacent to each other are bonded intermittently along a length. The optical fibre ribbon (102) has a bond ratio of about 15 to 22. The bond ratio is a ratio of a number of a plurality of bonds (106) per unit length of the optical fibre ribbon (100) to a number of optical fibres in the optical fibre ribbon (100).

No. of Pages : 17 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055214 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : PARKING BRAKE LEVER

(51) International classification	:B60T0007100000, B60T0017080000, B25B0015000000, B29C0045260000, E05B0065100000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1, Nelson Mandela Road, Vasant Kunj, New Delhi – 110070, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANKIT MITTAL
(33) Name of priority country	:NA	2)MAYANK DANDOTIYA
(86) International Application No	:NA	3)ANUGULA SOMESHWAR
Filing Date	:NA	4)RAJESH VYAS
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein provides a parking brake lever (300) in a vehicle comprising a push rod (302) having a first end connected to a ratchet plate while a second end connected to a push button at push button side (304), a neck (306) formed adjacent to the push button side (304), said neck (306) having dimensions less than dimensions of the push rod (302); and a spring stopper (308) having a slot (308-S) at a central region to lock the spring stopper (308) with the neck (306), wherein the slot (308-S) is having a shape corresponding to a cross sectional shape of the neck (306).

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : BULB FITTING DEVICE

(51) International classification	:A61J0001060000, B25B0027100000, H01R0013622000, B25G0001080000, B23P0019040000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ritika Rana
(33) Name of priority country	:NA	2)Sorabh Aggarwal
(86) International Application No	:NA	3)Dr. Raj Kumar
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present subject matter relates to a bulb fitting device (100). The bulb fitting device (100) includes a body (102). In one embodiment, the body (102) is foldable. Further, the bulb fitting device (100) includes a hydraulic jaw (104) coupled to the body (102) from a first end (106). In one embodiment, the hydraulic jaw (104) is configured to hold a bulb from a second end (108). Further, the bulb fitting device (100) includes a handle (110) coupled to the body (102). In one embodiment, the handle is configured to be pushed inward to place the bulb in a socket, rotate in a circular motion to secure the bulb in the socket, and pulled outward to lose grip over the bulb. Further, the body (102), the hydraulic jaw (104), and the handle (110) are linked all together by a universal joint.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : A PROCESS TO TREAT SEEDS OF VIGNA UNGUICULATA (L.) TO ENHANCE ITS POTENTIAL

(51) International classification	:A01C0001000000, C03C0013000000, G02B0005300000, C02F0103020000, B01J0020240000	(71) Name of Applicant : 1)Shoolini University of Biotechnology and Management Sciences Address of Applicant :Bajhol, PO – Sultanpur Solan, Himachal Pradesh INDIA-173229 Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Himani Pathania
(33) Name of priority country	:NA	2)Priyanka Chauhan
(86) International Application No	:NA	3)Dr. Mamta Sharma
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process to treat seeds of Vigna unguiculata L. to enhance its potential to grow in drought areas comprises seeds are washed with 0.5 - 1.5 % mercuric chloride solution for 2 - 3 minutes and then washed the same with distilled water for 4 - 5 minutes. The washed seeds are soaked in a composite solution for 20 - 28 hours in dark. The soaked seeds are treated with the composite solution in a moisture-controlled environment for 18 - 22 days so as to enhance the potential of the Vigna unguiculata L seeds.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054820 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : ROLLABLE OPTICAL FIBRE RIBBON WITH INTERMITTENT BONDING

(51) International classification	:G02B0006440000, G02B0006380000, A61F0013530000, G02B0006360000, C04B0035528000	(71)Name of Applicant : 1)Sterlite Technologies Limited Address of Applicant :3rd Floor, Plot No. 3, IFFCO Tower, Sector 29 Gurugram, Haryana - 122002 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Atul Mishra
(32) Priority Date	:NA	2)Sourabh Singh Parmar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a rollable optical fibre ribbon (100) with intermittent bonding. The rollable optical fibre ribbon (100) includes a plurality of optical fibres. The plurality of optical fibres (102) are placed parallel to each other, wherein the plurality of optical fibres (102) adjacent to each other are bonded intermittently along a length by a plurality of bonded portions (104). The plurality of bonded portions (104) occupies 3 to 20 % of an area of the rollable optical fibre ribbon of length 1 meter. An area of the plurality of bonded portions (104) is defined as an area projected by the plurality of bonded (104) portions on a plane passing through centres of the plurality of optical fibres (102) of the rollable optical fibre ribbon (100) and extending longitudinally.

No. of Pages : 17 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054859 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A METHOD AND SYSTEM FOR TRACKING ONE OR MORE USER ACTIVITIES

(51) International classification	:A61B0005110000, G06Q0010060000, G06Q0050000000, A63B0024000000, G09B0019000000	(71)Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :416 Maetan-Dong, Yeongtong-GU, Suwon-SI, Gyeonggi-do 442-742, Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Vijayanand
(33) Name of priority country	:NA	2)MALIK, Nitin
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a method for tracking one or more user activities comprising detecting an activity being currently performed by a user and determining at least one target for the detected activity based on user inputs. The method further comprises generating a personal performance distribution pattern for achieving the determined target based on user specific personal limits corresponding to the detected activity and generating an optimal distribution pattern for achieving the determined target based on an analysis of historical and environmental data of other users who have achieved the determined target in an optimal time. Thereafter, the method comprises comparing monitoring parameters of the personal performance distribution pattern and the optimal distribution pattern, and based on the comparison adjusting the personal performance distribution pattern in accordance with an optimal target limit following which the user can achieve the determined target within his personal limit for the detected activity.

No. of Pages : 48 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111050230 A

(19) INDIA

(22) Date of filing of Application :02/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : DRAIN AND GATE ENGINEERED SCHOTTKY BARRIER MOSFET.

(51) International classification	:H01L0029470000, H01L0031108000, H01L0029660000, H01L0029872000, H01L0031070000	(71)Name of Applicant : 1)DR. FAISAL BASHIR Address of Applicant :SUDRABAL OPP, K.U. TOWN MIRZABAGH SRI NAGAR JAMMU & KASHMIR-190006, INDIA Jammu & Kashmir India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DR. FAISAL BASHIR
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A high performance Silicon on Insulator (SOI) Metal Oxide Semiconductor Field Effect Trsisto (MOFET) wi doped Source replaced with g.etal silici?e, doped Drrun realized Without bemg actually doped and selected nmtals are bemg used as a gae metal. By optimiing the gat and rain n;:U wunjion, proposed device can be scaled m Nano regime without fac1ag peance degradation. By optimizing drain and gate metal wor 1-ttns, the performance measuring parameters like ON current, • fO cuPrent ratio,cutoff frequency,subthreshold swing,scalability gets significantly improved.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111050241 A

(19) INDIA

(22) Date of filing of Application :02/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : POLARIZATION DOPED ENHANCEMENT MODE P-TYPE GAN (PD-GAN) MOSFET: A METHOD OF MANUFACTURING THE SAME

(51) International classification	:H01L0029660000, H01L0029200000, H01L0029778000, H01L0029100000, H01L0029423000	(71)Name of Applicant : 1)PROF. SAJAD A. LOAN Address of Applicant :B-23, MUJEEB BAGH J.M.I NEW DELHI-110025, INDIA Delhi India 2)DR. SUMIT VERMA 3)DR. HEND I. ALKHAMMASH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)PROF. SAJAD A. LOAN 2)DR. SUMIT VERMA 3)DR. HEND I. ALKHAMMASH
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of achieving enhancement mode operation m III-V group semiconductor devices is discussed. The disclosure uses N-Polar GaN as channel layer. The proposed PD-PGaN MOSFET does not require any physical doping for forming source/ drain regions. The source/ drain regions in the PDPGaN MOSFET is realized by polarization doping. The polarization doping is introduced by negative polarized charge located on the N-Polar AlNjGaN junction. The lack of doped source/drain regions in the PD-PGaN MOSFET device obviates the problem of high activation energy required by conventional doped P-GaN MOSFETs.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054648 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : VALUE ADDED UTILIZATION OF INDUSTRIAL APPLE WASTE FOR THE CO-EXTRACTION OF PECTIN AND CELLULOSE AS WELL AS PREPARATION OF NANOCELLULOSE.

(51) International classification	:C08B0037000000, C12P0019040000, C08H0008000000, A23L0019000000, D21H0011120000	(71)Name of Applicant : 1)CENTER OF INNOVATIVE AND APPLIED BIOPROCESSING (CIAB) Address of Applicant :: CENTER OF INNOVATIVE AND APPLIED BIOPROCESSING (CIAB), (Knowledge city), Sector 81, MOHALI, INDIA-140306 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Saswata Goswami
(33) Name of priority country	:NA	2)Harshdeep Rana
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention describes the optimized process for the co-extraction of pectin and cellulose (to prepare nanocellulose) from industrial apple waste. This invention involves simultaneous extraction of pectin and then cellulose (for the preparation of crystalline nanocellulose) employing the optimization of depectination (to separate pectin from the apple pomace) and pretreatment process i. e., alkali treatment (of depectinated biomass to extract cellulose and to remove hemicellulose and lignin). After that bleaching process has been performed to remove residual lignin and other impurities. The optimization of acid hydrolysis (to prepare cellulose to nanocellulose) has also been demonstrated as a key step for crystalline nanocellulose (CNC) preparation. This process resolves the problems of previous studies for extracting pectin (having low extraction yield as well as galacturonic acid content) and cellulose (having low extraction yield, a-cellulose content and high lignin content) to prepare nanocellulose with high crystallinity index. Results of an upgraded process offer the pectin with high extraction yield (26%), galacturonic acid content (51%), and from the left over depectinated biomass the highest cellulose extraction yield (34%) along with high a-cellulose content (88%) and low lignin content (3.5%) has been obtained. Further, from this extracted cellulose, the CNC with the highest crystallinity index of 90.13% has been achieved. The extracted pectin apple waste may serve as the foundation for a variety of low calorie food products, whereas CNC for various nano bio-composites that can be used in many biomedical and other commercial applications.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054697 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL MANGANESE OXIDE INCITED GRAPHENE QUANTUM DOTS MEMBRANE AND METHOD THEREOF

(51) International classification	:B01D0067000000, B01D0069120000, B01D0061000000, B01D0069020000, B01D0069100000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Manoj Chandra Garg
(32) Priority Date	:NA	2)Harshita Jain
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a novel manganese oxide incited graphene quantum dots membrane and method thereof. The novelty of the present invention resides in a thin-film composite membrane fabricated by means of incorporating manganese oxide (MnO₂) incited graphene quantum dots (GQDs) nanocomposite into a cellulose acetate (CA) suspension followed by phase inversion (PI) for enhanced forward osmosis (FO) separation performance. The nanocomposite membranes of the present invention exhibit superior FO separation performance with average osmotic water flux of 42+ L.m⁻².h⁻¹ (LMH) or greater. Specifically, there is disclosed a high flux thin-film nanocomposite forward osmosis membrane embedded on a porous support layer having a polyester woven mesh and a nanocomposite polymeric skin layer for salt rejection.

No. of Pages : 28 No. of Claims : 7

(54) Title of the invention : QUADRUPLER METAL GATE BASED JUNCTIONLESS DOUBLE SURROUNDING GATE INO.53GA0.47AS NANOTUBE MOSFET WITH 5 NM GATE LENGTH

<p>(51) International classification :H01L0029660000, H01L0029780000, H01L0029786000, H01L0021823800, H01L0029100000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number:NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sanjay Address of Applicant :Old CHC Hosptial, Tosham VPO and Tehsil - Tosham District - Bhiwani Haryana India</p> <p>(72)Name of Inventor : 1)Sanjay 2)B. Prasad 3)Anil Vohra</p>
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(57) Abstract :

The inventors report novel junctionless (JL) Quadruple Metal (QM) gate based Double Surrounding Gate (DSG) Ino.53Gao.47As nanotube (NT) MOSFET devices with 5 nm gate length, channel radius of 1.5 nm, and gate oxide (Al₂O₃) of thickness 0.8 nm. To validate the device functioning, the behavior of drain current (*I_D*) has been studied using Silvaco ATLAS 3D TCAD based simulations and comparison has been made between inversion mode (IM) and junctionless (JL) devices of similar parameters. The channel region for IM NT MOSFET is taken to be lightly doped. For a reasonable comparison between Junctionless and Inversion Mode Ino.53Gao.47As devices, in case of QM Junctionless devices, doping concentration is optimized (i) to get the same ION as IM NT device and (ii) to get the same threshold voltage (VTH) as IM NT device. It was found that there is about 22.64 times and 77.16 times smaller IOFF for matching ION and VTH devices respectively as compared to IM device. It was also found that there is about 4.41 times and 148.19 times smaller ION/IOFF ratio for matching ION and VTH devices respectively as compared to IM device. The QM type of Gate formations reduce drain induced barrier lowering (DIBL) in JL NT devices. These devices are seen to have almost an ideal SS 60mV/dec, a smaller DIBL-23.89 mV/V, and higher I ON/I OFF ratio 2.10x10⁹ as compared to the devices reported in literature.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054950 A

(19) INDIA

(22) Date of filing of Application :27/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SOLID FORMS OF METHYL 4-[(2-FLUORO-3-{[N-(6-METHYLPYRIDIN-3-YL)CARBAMOYL]AMINO}PHENYL) METHYL] PIPERAZINE -1-CARBOXYLATE AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0031496000, A61K0009200000, C07D0213500000, A61K0047380000, A61K0045060000	(71)Name of Applicant : 1)Mankind Pharma Ltd. Address of Applicant :208, Okhla Industrial Estate Phase III, New Delhi India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SHUKLA, Naveen Kumar
(32) Priority Date	:NA	2)TIWARI, Rakesh
(33) Name of priority country	:NA	3)BHAVSAR, Jigar
(86) International Application No	:NA	4)CHATURVEDI, Vivek
Filing Date	:NA	5)KUMAR, Anil
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to solid forms of Omecamtiv Mecarbil (methyl 4-[(2-fluoro-3-{[N-(6-methylpyridin-3-yl) carbamoyl]amino}phenyl) methyl] piperazine -1-carboxylate) of Formula I or salts thereof, and methods for preparation thereof.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054967 A

(19) INDIA

(22) Date of filing of Application :27/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : GENETICALLY ENGINEERED MAMMALIAN CELLS TO CONTROL GLYCOSYLATION

(51) International classification	:C12P0021000000, C12N0005000000, C07K0016000000, C12N0009900000, C12N0007040000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Street Rafi Marg City New Delhi State Delhi Country India Pin code 110 001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Mugdha Chetan Gadgil
(33) Name of priority country	:NA	2)Anuja Janardhan Prabhu
(86) International Application No	:NA	3)Dhanasekaran Shanmugam
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a process of producing recombinant glycoprotein in genetically engineered mammalian cells, preferably CHO cells. The present invention also provides a process for controlling desired glycoforms by knocking out GalE gene or FX gene either alone or in combination in CHO cells, combined with varying supplementation of galactose or fucose. The genetically engineered CHO cells are genetically engineered by knocking out at least one or combinatorial of the genes of enzymes selected from UDP-glucose-4-epimerase (GalE) or GDP-keto-6-deoxymannose-3,5-epimerase-4-reductase (FX) or both, followed by expressing the recombinant glycoprotein.

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055043 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : ELECTRO-RESPONSIVE MOLECULARLY IMPRINTED SYNTHETIC ANTIBODIES

(51) International classification	:C12Q0001000000, G01N0033543000, G01N0027480000, G01N0027260000, G01N0027300000	(71)Name of Applicant : 1)Council of Scientific and Industrial Research Address of Applicant :Anusandhan Bhawan, 2-Rafi Marg, New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)PANDIARAJ MANICKAM
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the creation of redox active MIPs grown as a thin film directly onto the electrode surface for electrochemical sensing of small molecule biomarkers (50-1500 Da). The use of electroactive MIPs on sensor surface allows the measurement of target biomarker without using any external redox mediator. Monomer containing amine functional group is linked with a redox probe through amine reactive cross-linking chemistry and used as a pre-polymerization mixture. As this type of polymerization involves only a single monomer, the polymer microstructure can be controlled. This invention also provides methods of creating such sensors for detecting small molecule biomarkers.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055244 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING AN ELECTRICAL VEHICLE IN INCLINATION

(51) International classification	:G11B0017040000, H01L0021768000, H04W0052260000, H02J0007140000, F16H0003540000	(71)Name of Applicant : 1)Schaeffler Technologies AG & Co. KG Address of Applicant :Industriestraße 1-3, 91074 Herzogenaurach (DE) Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SINGH, Vivek
(32) Priority Date	:NA	2)RAMALINGAM, Gomathi
(33) Name of priority country	:NA	3)IYER, Ramkumar
(86) International Application No	:NA	4)AYYAPPATH, Prajod
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method (400) for controlling a vehicle (100) during an ascent/descent of the vehicle is disclosed. The method determines whether a speed, an inclination, and a throttle-position of the vehicle are within a predetermined range. Thereafter, the method transmits power from a motor to a transmission-assembly (102). In a descent condition, the power is transmitted by actuating a bypass-mechanism (310) to restrict the power flow to a first-clutch-assembly (306) and actuating a second-clutch-assembly (308) to engage with a second gears. In an ascent condition, the power is transmitted by de-actuating the bypass-mechanism (310) to allow the power flow to the first-clutch-assembly (306) and actuating the second-clutch-assembly (308) to engage with the second gears and transmit the power to the second gears. Further, the first and the second gears are adapted to engage with and restrict rotation of the wheels (106).

No. of Pages : 39 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055247 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A NOVEL COMBO VALVE WITH EFV AND FILLER VALVE WITH OPD

(51) International classification	:F16K0001300000, F16K0031200000, H01S0003040000, B65D0081200000, G05D0023020000	(71) Name of Applicant : 1)Bhiwadi Cylinders Pvt. Ltd. Address of Applicant :314-316, Ansal Chamber II, Bhikaji Cama Place, New Delhi - 110066 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Manvinder Singh
(33) Name of priority country	:NA	2)S.K. Dey
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is a combo valve with a main valve body with flat wrenching specifically designed to overcome breakage. It includes a valve body (1), a NRV spring (8), a tube for fixed level guage (11), a gland (12), a SS ball (13), a brass cap (16), a brass tube (27) and a spring (30). The present invention is having the attachment of Overfill Protection Device (OPD) which can be operated by OPD knob as and when require. It is easy to manufacture and use the materials as such to enhance the life of the product and to achieve high level of satisfaction in quality.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055271 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A MODULAR SOLID OXIDE FUEL CELL (SOFC) SYSTEM

(51) International classification	:H01M0008124000, H01M0008242500, H01M0008061200, H01M0008040070, H01M0008240400	(71) Name of Applicant : 1)mPower GmbH Address of Applicant :Winterbergstr. 2801277 Dresden, Germany Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SIDDHARTH, Mayur R.
(33) Name of priority country	:NA	2)AMARNATH, Chakradeo A.
(86) International Application No	:NA	3)SHENDAGE, Dadasaheb Jagannath
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses modular SOFC system (200) for generating power. The system (200) includes a plurality of SOFC stacks (202A-C) in fluid communication with each other. Further, wherein each of the SOFC stacks (202A-C) includes fuel cells (214) adapted to generate electrical power from a flow of reformat gas mixture, an inlet passage (208 A-B) adapted to allow the flow of reformat gas mixture within respective SOFC stack (202A-C), and an exhaust passage (210) positioned vertically opposite to the inlet passage (208A-B). The exhaust passage (210) is adapted to allow egress of partially reformed gas mixture from respective SOFC stack to an adjacent SOFC stack from the SOFC stacks (202A-C). Further, the exhaust passage (210) of a SOFC stack (202A) defines the inlet passage for an adjacent SOFC stack (202B) positioned above the SOFC stack (202A).

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : A METHOD OF PREPARATION OF PANI-MOO3 NANORODS COMPOSITES AS ELECTRODE MATERIAL IN IONIC LIQUID ELECTROLYTE

(51) International classification	:H01M0004620000, H01G0011480000, H01G0011240000, H01G0011860000, B82Y0030000000	(71)Name of Applicant : 1)Amity University Address of Applicant :Amity University, Address: E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dattatray Jaysing Late
(33) Name of priority country	:NA	2)Lina Khandare
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method of preparation of PANI-MOO3 Nanorods Composites as electrode material in Ionic Liquid Electrolyte. The present invention provides PANI-MOO3 nanorods composite is synthesized by a one-step chemical method with a homogeneous and uniform coating of polyaniline (PANI) on MOO3 nanorods. The synthesized MOO3 nanorods and PANI-MOO3 nanorods composite are both characterized by XRD pattern, FT-IR spectroscopy, FE-SEM, TEM, and HR-TEM techniques. From TEM and HR-TEM results it is observed that MOO3 nanorods are about 100-200 nm in diameter and PANI is uniformly coated on MOO3 nanorods with 20-25 nm thickness. The electrochemical performance of MOO3 nanorods and PANI-MOO3 nanorods composite has been investigated using cyclic voltammetry (CV), galvanostatic charge-discharge curve (CD) study, and electrochemical impedance spectroscopy (EIS) techniques in pure 1-butyl-3-methylimidazolium bromide [Bmim][Br], at room temperature. The specific capacitances calculated from galvanostatic CD curves are found to be 195 F/g and 33 F/g for PANI-MOO3 nanorods composite and pristine MOO3 nanorods at the current density of 2 A/g, respectively. From the galvanostatic CD curve, it is observed that PANI-MOO3 nanorods composite shows good cyclic stability with 94 % retention in capacitance. From this, it can be concluded that PANI-MOO3 nanorods composite can be the promising material for high-performance supercapacitors in electrochemical energy storage devices.

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : IMMUNOTHERAPY FOR MULTI DRUG RESISTANT SALMONELLA TYPHIMURIUM

(51) International classification	:C07K0016020000, C07K0016120000, A61K0039000000, A61K0035570000, A61K0039020000	(71)Name of Applicant : 1)G. B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY Address of Applicant :GOVIND BALLABH PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR-263145, UTTARAKHAND, INDIA Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DR. AAKANKSHA TIWARI
(33) Name of priority country	:NA	2)DR. RAJESH KUMAR
(86) International Application No	:NA	3)DR. GARIMA PANDEY
Filing Date	:NA	4)DR AJAY KUMAR UPADHYAY
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

IMMUNOTHERAPY FOR MULTI DRUG RESISTANT SALMONELLA TYPHIMURIUM In the present invention a multi drug resistant isolate of Salmonella Typhimurim was grown in bulk and OMPs were isolated. RIR layers were then hyperimmunized with the increasing doses of these OMPs subcutaneously. Eggs were collected and IgY was isolated from egg yolk which was visualized as 63 kDa and 27 kDa bands on SDS-PAGE. Total protein concentration of IgY preparation was 3.32 mg/ml of egg yolk and specific IgY concentration by RID was 2.81 mg/ml of egg yolk, indicating 84.64% purity. The specificity of IgY against the OMPs was analyzed by positive reaction in Western blot and Dot Enzyme Immunoassay. In vitro efficacy testing of different concentrations of IgY against the bacteria showed results in a dose-dependent manner and significant difference was observed between the different combinations. Massive adherence and penetration of bacteria in Vero cells was observed in the negative and culture control unlike in the IgY treated bacterial Vero cells. In in vivo experiment in mice, prophylactic group showed no mortality and bacterial count in the faecal swabs and in the organs was significantly less. It indicates that prophylactic activity of IgY is much stronger than the therapeutic activity.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055450 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR MANUFACTURING OF AN OPTICAL FIBRE THROUGH GLASS PREFORM ASSEMBLY USING ROD-IN-CYLINDER PROCESS

(51) International classification	:C03B0037012000, B65D0001020000, C03B0037027000, C03B0037014000, H01J0065040000	(71)Name of Applicant : 1)Sterlite Technologies Limited Address of Applicant :3rd Floor, Plot No.3, IFFCO Chowk, Sector 29, Gurugram, Haryana 122002 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sanjith Singh Bhatia
(32) Priority Date	:NA	2)Saravanan Guru
(33) Name of priority country	:NA	3)Prabhu Eswar
(86) International Application No	:NA	4)Priya Gupta
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a glass preform assembly (200) for manufacturing an optical fibre. The glass preform assembly (200) includes a solid glass core rod (206) of cylindrical shape, a hollow glass tube (204), a hollow glass cylinder (208), and a top handle assembly (210). The hollow glass tube (204) is concentric to the solid glass core rod (206). The hollow glass cylinder (208) is concentric to the hollow glass tube (204). Moreover, the top handle assembly (210) includes a top handle (212). Also, the top handle assembly (210) includes a solid quartz protruded ingot (214) having a solid cylindrical region (216) and a protruded region (218). The top handle (212) is situated at top end of the glass preform assembly (200). The solid quartz protruded ingot (214) has one or more elongated slot regions (224) on surface of the solid quartz protruded ingot (214).

No. of Pages : 30 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055451 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : HOMOGENOUS MIXING AND CONTROLLED EJECTION OF MIXTURES OF PARTICULATE MATTER

(51) International classification	:A45D0040000000, A45D0040240000, B65D0081320000, B01F0015020000, A61Q0009020000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi 110016, India Delhi India (72) Name of Inventor : 1)JHA, Sunil 2)VERMA, Tarun 3)CHAWLA, Onkar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Example implementations of a device (100, 200, 300, 400) for homogenous mixing and controlled ejection of mixture of particulate matter are described. The device comprises of two sections: a mixing mechanism and a linear travel mechanism. The mixing mechanism includes a mixing chamber (102, 202, 302, 402) having an inlet-outlet port (104, 204, 304, 404). The inlet-outlet port is proximal to an end of the mixing chamber. The mixing mechanism of the device further includes a primary impeller (110, 216, 310, 416) to rotate inside the mixing chamber and to rotate proximal to the inlet-outlet port for homogenous mixing of mixture of particulate matter in the mixing chamber. In addition, the linear travel mechanism of the device includes a piston (114, 212, 318, 412) to translate inside the mixing chamber from an end, opposite to the primary impeller for ejecting the mixture from the inlet-outlet port.

No. of Pages : 21 No. of Claims : 11

(54) Title of the invention : E – TRI-CYCLE WITH RETROFIT ELECTRIC POWERED MOTOR

(51) International classification	:C05G0003000000, A01N0047180000, G06Q0010100000, G06Q0050260000, B60L0053300000	(71)Name of Applicant : 1)Dr. S. Devaneyan Address of Applicant :A-78, Sushant Lok II, Golf course road, Sector 55, Gurugram, Haryana Haryana India 2)Mr. Ramalingam. P
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Mr. Ramalingam. P
(33) Name of priority country	:NA	2)Prof. (Dr.) S. Devaneyan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In India, there are presently close to 20 million petrol and diesel-powered three-wheelers and their population is growing at a rate of about 20% per annum. Besides being a major hazard to people's health, these machines are burning huge amounts of petrol and diesel for which the country has to pay extremely on foreign exchange. Electric powered tricycles which are mostly imported from china are in Indian roads and costs of these imported vehicles or vehicles with imported components are three times higher than the vehicle that proposed one. An improved, indigenously designed and developed fully electric powered retrofit of pedaled load rickshaw can provide a non-polluting and silent cargo commuting transport system for urban and rural areas of India. It can also provide large-scale employment to millions of urban and in particular rural poor.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055044 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : COBALT FREE LIMN₂NIXFEYALZ₀₄ SPINEL AS A CATHODE MATERIAL FOR LI-ION BATTERIES

(51) International classification	:H01M0004505000, C01G0051000000, H01M0004131000, C01G0053000000, B01J0023750000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :Anusandhan Bhawan, 2-Rafi Marg, New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Nayaka Girish Praveen
(33) Name of priority country	:NA	2)Shivamurthy Bogalera Papaiah
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cobalt-free electrode material of formula: LiMn₂.x-y-zNixFeyAlz₀₄ spinel as a cathode material for Li-ion batteries, wherein x=0.8-0.5 y=0.1-0.25 and z=0.1-0.25. The present invention also relates to a Li-ion batteries comprising of said cobalt free spinel as cathode materials.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055045 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : RETRACTABLE BED COVER AND DUST COLLECTOR FOR TRANSPORT VEHICLES

(51) International classification	:A47G0009020000, B60P0001000000, B60J0007160000, C09K0003220000, B60J0007040000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860) Address of Applicant :House No. Anusandhan Bhawan, 2 Rafi Marg Street Rafi Marg City New Delhi State Delhi Country India Pin code 110 001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Chaulya Swades Kumar
(33) Name of priority country	:NA	2)Roy Sanjay Kumar
(86) International Application No	:NA	3)Prasad Girendra Mohan
Filing Date	:NA	4)Mandal Sujit Kumar
(87) International Publication No	: NA	5)Banerjee Gautam
(61) Patent of Addition to Application Number	:NA	6)Singh Pradeep Kumar
Filing Date	:NA	7)Dey Surajit
(62) Divisional to Application Number	:NA	8)Virendra Kumar
Filing Date	:NA	9)Preity
		10)Rawani Vijay Kumar
		11)Mishra Richa
		12)Rajak Krishna Kumar

(57) Abstract :

An integrated retractable bed cover and road dust collector for transport vehicles is developed for preventing emission of dust particles in air during transportation and unloading as well as collecting the vehicle's tyre emitted dust during its plying on dusty road surface. Retractable truck bed covering system provides an effective way to protect the loaded bulk material in the bed storage area from dust emission and adverse weather conditions. The retractable bed and rear cover system consist of vinyl cover, supporting rods, channels, rollers, pulleys, clamps, motors and gear drives.

No. of Pages : 29 No. of Claims : 7

(54) Title of the invention : UP-FLOW COMPACT CONSTRUCTED WETLAND (UCCW) BASED SEWAGE TREATMENT PLANT

(51) International classification	:C02F0003320000, C02F0009000000, C02F0001000000, C02F0003280000, B01D0021000000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :Anusandhan Bhawan 2 Rafi Marg New Delhi - 110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ritesh Vijay
(33) Name of priority country	:NA	2)Rakesh Kumar
(86) International Application No	:NA	3)Vikash Gupta
Filing Date	:NA	4)Divyesh Parde
(87) International Publication No	: NA	5)Radhika Deore
(61) Patent of Addition to Application Number	:NA	6)Shalini Tandon
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides an up-flow compact constructed wetland (UCCW) in the form of a circular or rectangular shaped STP consisting of preliminary treatment with settling cum 5 oil removal chamber, anaerobic baffled sedimentation chamber (primary treatment) and two phyto-beds (secondary treatment) in a single tank. The phyto-beds consist substrate/filter media and wetland plant species. The substrate/filter media used in phyto-beds are of three equal layers of different sizes (fine 20-40mm, medium 40-60mm and coarse 60-100mm). The phyto-bed up-flows wastewater with the help of manifold placed at the bottom of tank. The 10 entire treatment works on the up-flow movement of wastewater. Up-flow compact constructed wetland (UCCW) based STP is designed to treat wastewater from households and small communities. The treated water can be reused for various purposes.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055047 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN INTEGRATED MOBILE DESALINATION SYSTEM TO GENERATE POTABLE WATER

(51) International classification	:C02F0103080000, C02F0001440000, C02F0001040000, C02F0009000000, B01D0061140000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg New Delhi -110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sanjay Devram Patil
(33) Name of priority country	:NA	2)Shaktipalsinh Dilipsinh Raijada
(86) International Application No	:NA	3)Rahul Subhash Patil
Filing Date	:NA	4)Govindkumar Gavajibhai Amaliar
(87) International Publication No	: NA	5)Arvind Amulakhrai Patel
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides an integrated mobile desalination system to provide potable water as the developed unit is capable of converting any feed water viz. contaminated water, turbid water, brackish water and high saline water such as seawater into potable water as per WHO and BIS standard. The mobile desalination system mainly consists of source of feed water (part-8) connected with submersible and booster pump (part-2), disc filters as pretreatment units consisting of microns filters connected in series along with high-pressure pump in case of Brackish or high salinity feed water, (part-3), (a) thin-film composite membrane modules connected in array (part-4) or (b) ultrafiltration module (part- 7) in case of lower salinity, and 4 control valves (CV 1, CV 2, CV 3 and CV 4).

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055048 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF FORMIC ACID FROM CO₂ HYDROGENATION

(51) International classification	:B01J0035000000, B01J0037030000, B01J0023750000, C25B0003040000, C07C0029145000	(71)Name of Applicant : 1)Council of Scientific and Industrial Research Address of Applicant :Anusandhan Bhawan, 2-Rafi Marg, New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Ankush Venkatrao Biradar
(32) Priority Date	:NA	2)Balasaheb Dnyanadeo Bankar
(33) Name of priority country	:NA	3)Dhanaji Rajaram Naikwadi
(86) International Application No	:NA	4)Krishnan Ravi
Filing Date	:NA	5)Palani Sivagnana Subramanian
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to processes for the preparation of formic acid from CO₂ hydrogenation using various metal oxides, namely the mixture of CO₃O₄ supported IrO₂ and RuC₂ as the catalyst. The alarming CO₂ level in the atmosphere poses many challenges to human beings. To resolve this, direct chemical transformation of CO₂ to fuels and useful chemical products would be a practical approach. Herein, the direct hydrogenation of CO₂ into formic acid (FA) using a heterogeneous metal oxide catalyst and a base in an aqueous solution was reported. The catalyst was synthesized by co-precipitation, followed by the hydrothermal method, and characterized by various physicochemical methods.

No. of Pages : 30 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055473 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ASSEMBLY FOR HOLDING A BELTLINE WEATHERSTRIP WITH A WINDOW SASH CHANNEL OF A VEHICLE

(51) International classification	:B60J0010750000, B60R0013040000, E06B0007230000, B60R0001060000, B60J0010265000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1, Nelson Mandela Road, Vasant Kunj, New Delhi – 110070, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)AMRINDER SINGH SIDHU
(33) Name of priority country	:NA	2)TARANG KUMAR
(86) International Application No	:NA	3)RAHUL SEMWAL
Filing Date	:NA	4)TARANDEEP SINGH
(87) International Publication No	: NA	5)ROHIT DANG
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is an assembly (200) for holding a beltline weatherstrip (102) with a window sash channel (108) of a vehicle, the assembly (200) comprising a hook shaped link (202) formed at one end (102-E1) of an inner of the beltline weatherstrip (102), the hook shaped link (202) extending perpendicular to length of the beltline weatherstrip (102); and a hook shaped bracket (204) formed at an upper end (108-U) of the window sash channel (108), the hook shaped bracket (204) extending along the length of the outer panel (106) and establishing a locking connection with the hook shaped link (202) of the beltline weatherstrip (102).

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055476 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ASSEMBLY FOR HOLDING A BELTLINE WEATHERSTRIP WITH A WINDOW SASH CHANNEL OF A VEHICLE

(51) International classification	:B60J0010750000, B60R0013040000, E06B0007230000, B60J0005040000, B60J0010265000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1, Nelson Mandela Road, Vasant Kunj, New Delhi – 110070, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)AMRINDER SINGH SIDHU
(33) Name of priority country	:NA	2)TARANG KUMAR
(86) International Application No	:NA	3)RAHUL SEMWAL
Filing Date	:NA	4)TARANDEEP SINGH
(87) International Publication No	: NA	5)ROHIT DANG
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is an assembly (200) for holding a beltline weatherstrip (102) with a window sash channel (104) of a vehicle, the assembly (200) comprising a hook shaped link (202) formed at one end (102-E1) of an inner of the beltline weatherstrip (102), the hook shaped link (202) extending perpendicular to length of the beltline weatherstrip (102) having a slot (202-S) at a lower end (202-L); and a hook shaped bracket (204) formed at an upper end (108-E1) of the window sash channel (108), the hook shaped bracket (204) extending along the length of the outer door panel (106) and establishing a locking connection with the hook shaped link (202) of the beltline weatherstrip (102).

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : A METHOD AND A SYSTEM FOR CONTROLLING HYBRID ELECTRIC VEHICLE

(51) International classification	:B60W0010080000, B60W0010060000, B60W0020000000, B60W0020100000, B60W0010260000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VIPUL
(33) Name of priority country	:NA	2)SUSHANT SWAMI
(86) International Application No	:NA	3)AMIT TALWAR
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter relates to a method (300) and a system (100) for controlling hybrid electric vehicle. The system (100) comprises a hybrid control unit (101). The hybrid control unit (101) is configured to receive a plurality of operating parameters. Based on at least one of the received operating parameters, and pre-set driver target torque map (101b) and engine bsfc optimal torque map (101c) stored in memory (101a) operatively coupled to the hybrid control unit (101), the hybrid control unit (101) determines real time driver torque demand (Xio) and optimal engine bsfc torque (X12). Subsequently, the hybrid control unit (101) determines engine target torque (Y5) and motor target torque (Ye) based on the determined real time driver torque demand (Xio) and optimal engine bsfc torque (X12). Afterwards, the hybrid control unit (101) send the determined engine target torque (Y5) and the motor target torque (Ye) to the engine control unit (104) and the motor control unit (106) to operate the hybrid vehicle with optimized fuel efficiency.

No. of Pages : 31 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055486 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR INDICATING REPEATED SECOND GEAR LAUNCH WARNING IN A MANUAL TRANSMISSION VEHICLE

(51) International classification	:B60W0030180000, F16H0061040000, F16H0061020000, B60L0003000000, A01D0034000000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India (72) Name of Inventor : 1)AYUSH SHARMA 2)AMIT TALWAR
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter relates to a method (200) and a system (100) for indicating repeated second gear launch warning in a manual transmission vehicle. The system (100) comprises sensors (102) and an Electronic Control Unit (101). The electronic control unit (101) is operatively connected to the sensors (102). The sensors (102) are configured to detect a primogenial second gear launch in a manual transmission vehicle. The Electronic Control Unit (101) is configured to start a time on detection of the primogenial second gear launch by the sensors (102). Further, the Electronic Control Unit (101) is configured to increment a counter each time the sensors (102) detect subsequent second gear launches occurring within a predefined time period, after the primogenial second gear launch and indicate, over user interface (103), repeated second gear launch warning, when the counter reaches a predefined threshold within the predefined time period.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055490 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : LIQUID CRYSTAL-BASED ELECTRICALLY DRIVEN MULTIDIRECTIONAL LASER BEAM STEERING DEVICE

(51) International classification	:G02F0001134300, H01L0051000000, H05B0003840000, H01L0051500000, C03C0027060000	(71)Name of Applicant : 1)Indian Institute of Technology Delhi Address of Applicant :Hauz Khas, New Delhi - 110016, India. Delhi India (72)Name of Inventor : 1)SINHA, Aloka 2)PANCHAL, Rahul
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a device (100) for deflecting a polarized laser light beam, the device includes a pair of glass plates (102-1, 102-2), the liquid crystal (LC) molecules are homogeneously aligned and placed between the pair of glass plates (102-1, 102-2). A pair of electrodes comprising a first electrode (104) and a second electrodes (106-1, 106-2), the first electrode (104) and the second electrodes (106-1, 106-2) are coupled to the pair of glass plates (102-1, 102-2). A voltage source adapted to supply electric voltage to the patterned second electrodes such that the homogeneously aligned LC molecules (112) start reorienting in the direction of an applied electric field. A laser beam (120) passes through the fringing field region, wherein based on the deformed alignment of the LC molecules, the beam gets deflected from its original path to multiple directions at different angles.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055505 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A CYLINDER COVER FRAME FOR SUPPORTING A COVERING STRUCTURE IN A VEHICLE

(51) International classification	:A47B0021000000, E04H0009020000, B62D0025200000, F16F0015020000, H01L0027220000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SIDDHARTH MAHAJAN
(32) Priority Date	:NA	2)ROBIN AGARWAL
(33) Name of priority country	:NA	3)RAVINDRA NAYAK
(86) International Application No	:NA	4)RAJDEEP KHURANA
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a cylinder cover frame (100) for supporting a covering structure (400) in a vehicle. The cover frame (100, 600) comprises a lower structure (102, 602). The lower structure (102, 602) is connected to a cylinder holding structure (200). The lower structure (102, 602) comprises a primary lower structure (106). The primary lower structure (106) comprises a horizontal rod (110) and a plurality of side rods (112). The horizontal rod (110) extends along the length of a cylinder (300). The side rods (112) extend downward from the two ends of the horizontal rod (110) to be connected to the cylinder holding structure (200).

No. of Pages : 33 No. of Claims : 20

(54) Title of the invention : MICROREACTOR WITH PERMEABLE ELECTRODES FOR PURE HYDROGEN GENERATION

(51) International classification	:B01J0019000000, B01D0053220000, H01M0008065600, C01B0003500000, C01B0003060000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi- 110016, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Suddhasatwa Basu
(32) Priority Date	:NA	2)Biswajit De
(33) Name of priority country	:NA	3)Aditya Singh
(86) International Application No	:NA	4)Neeraj Khare
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a membrane-free device (100) for the production of hydrogen and oxygen gases from an electrolyte fluid through electrolysis. The device comprises a body (1) and a cover (15). The body (1) comprises a first transport microchannel (8), a second transport microchannel (9), and a central microchannel (12). The central microchannel (12) is configured to receive the electrolyte fluid. A permeable first electrode (16) positioned between the first transport microchannel (8) and the central microchannel (12), and a permeable second electrode (17) positioned between the second transport microchannel (9) and the central microchannel (12). The permeable first electrode (16) and the permeable second electrode (17) are configured to extract gases from the electrolyte fluid and have pores in order to channelize the gases extracted from the electrolyte fluid to the first transport microchannel (8) and the second transport microchannel (9).

No. of Pages : 28 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055570 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : ENHANCED EXTRACELLULAR SECRETION OF STAPHYLOCOCCAL PROTEIN A (SPA)

(51) International classification	:C12N0005000000, A61K0039000000, C12P0021000000, C07K0014310000, A61K0039085000	(71)Name of Applicant : 1)Guru Gobind Singh Indraprastha University Address of Applicant :16C, Dwarka, New Delhi - 110078, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Pandey, Dr Gaurav
(32) Priority Date	:NA	2)Choudhury, Lipsa
(33) Name of priority country	:NA	3)Shukla, Esha
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a modified SpA with X domain removed (SpA w/o X) for improving extracellular localization of expressed protein and a method for improved extracellular localization of expressed protein in bacterial host cells, the method characterized by: i) using a vector comprising a SpA w/o X and optionally an additional protein of interest; ii) maintaining the osmolality of culture medium in the range of 500-550 mOsmol/kg; iii) adding chemical additive to the culture media; iv) maintaining an acetate concentration to be less than 100mM in the culture; and v) maintaining a glucose concentration of 8 g/L post induction till the SpA w/o X formation is peaked.

No. of Pages : 48 No. of Claims : 10

(54) Title of the invention : MULTIGRAIN INDIAN PANCAKE PREMIX AND THE PROCESS OF MAKING THE PANCAKE

(51) International classification	:A61K0036894500, A23L0007100000, A23L0019100000, A21D0013066000, A23L0011000000	(71)Name of Applicant : 1)IIS deemed to be University Address of Applicant :IIS Deemed to be University, Gurukul Marg, SFS, Mansarovar, Jaipur, Rajasthan Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Tanushree Chakravarty 2)Dr. Reena Verma
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses multigrain Indian pancake {cheela} premix and the processing method of converting purple yam to purple yam flour. Purple yam (*Dioscorea alata*) is an antioxidant-rich, underutilized, seasonal vegetable in India. Its culinary usage and shelf-life can be enhanced by converting it to flour. In the present study, purple yam flour is produced by heat processing (oven-drying). It is then subjected to physicochemical, nutritional, antioxidant and microbial analysis. A gluten-free, plant-based, nutritious and cost-effective multigrain cheela premix is produced by combining purple yam flour with cereal-based flours, namely bajra (pearl millet), jowar (sorghum) and pulse-based flours, namely besan (Bengal gram flour) and soya. Three variations of multigrain cheela are prepared where in purple yam flour is incorporated in different proportions. As compared to the traditional besan cheela, this version of multigrain cheela is more nutritious since it contains a combination of cereals, pulses, vegetable and milk product (curd). The nutritive value of multigrain cheela is estimated using IFCT (Indian Food Composite Tables), 2017 and the sensory attributes are measured using 5- and 9-point hedonic rating scales. The present invention aims to increase the prospects of food product development using purple yam flour as a functional ingredient to produce healthy, gluten-free, plant-based convenience foods.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055672 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : HERBAL FORMULATION FOR THE PREVENTION AND MANAGEMENT OF COVID-19 BY REGULATING IMMUNOMODULATORY PROPERTY

(51) International classification	:A61K0036590000, A61K0036185000, A61K0036530000, A61K0038480000, A23K0010300000	(71)Name of Applicant : 1)Dr. Khushbu Kumari Address of Applicant :Nutriley Healthcare Private Limited, Plot No. 16, MojaPatan, Near Arya Nagar, Hisar (Haryana)- 125001, India Haryana India 2)Dr. Guru Prakash
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Prof. G.P. Dubey
(32) Priority Date	:NA	2)Dr. Naveen Agrawal
(33) Name of priority country	:NA	3)Dr. Parul Agrawal
(86) International Application No	:NA	4)Dr. K.M. Ramkumar
Filing Date	:NA	5)Dr. R.C. Satishkumar
(87) International Publication No	: NA	6)Dr. R.G. Saini
(61) Patent of Addition to Application Number	:NA	7)Dr. Rajesh Dubey
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a herbal formulation for the prevention and management of COVID-19 comprising hydro-alcoholic extract of Hippophae rhamnoides, Tinospora cordifolia and Occimum sanctum and the bio-molecules of the said plants regulate the ACE2 receptors in different organ system.

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055681 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : PAYMENT MANAGEMENT SYSTEM AND METHOD

(51) International classification	:G06Q0020380000, G06Q0020100000, G06Q0020400000, G06Q0020320000, G06Q0020040000	(71)Name of Applicant : 1)Tarun Chadha Address of Applicant :E-252 (Double Storey), Ramesh Nagar, New Delhi 110015, Delhi, India Delhi India 2)Peter William Crockett
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Tarun Chadha 2)Peter William Crockett
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a payment system and method of trading products of any commercial sector as shown chiefly though descriptions within the field of computer technologies, in particular as they involve commercial products' payment methods, apparatuses and devices. Mainly but not solely those descriptions are concerned with a computer-implemented system and method of diverse forms for facilitating the payment of a total monetary amount for goods and services that comprise the multiple ways of payment through immediate and future instalments by a customer or other user of the system to the operator/service provider, and of the provider's ways of making payments to system users. The public commercial vehicle of the proposed invention's computer-implemented system and method may be developed as one or more mobile phone application, or 'app', or as other suitable software technology.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055718 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : MULTIMODAL INPUT MECHANISM TO DRAW GRAPHICS ON A SCREEN DURING AN INTERACTIVE SESSION

(51) International classification	:G06N0020000000, G06F0003048400, G06F0009451000, G06F0040300000, G06T0001200000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul - 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VELAGA Sai Vamsi Krishna
(33) Name of priority country	:NA	2)UDAYAPRAKASH Mohita
(86) International Application No	:NA	3)SYED Naveed Akthar
Filing Date	:NA	4)JEYARAM Velmurugan
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated method to draw graphics on a screen during an interactive session. The automated method includes receiving one or more inputs via one or more modes from the user. The automated method further includes converting the received inputs into text inputs. Further, the automated method includes identifying one or more graphics based on the text inputs from a predefined database by employing one or more machine learning (ML) models. The automated method also includes selecting relevant graphics from the identified one or more graphics. Furthermore, the automated method includes displaying the selected graphics on the screen.

No. of Pages : 38 No. of Claims : 18

(54) Title of the invention : ELECTRICAL HEATERS HAVING SERPENTINE DESIGNS AND SELECTED DEAD ZONES FOR EXHAUST AFTERTREATMENT SYSTEMS AND ASSEMBLIES

(51) International classification	:F01N0013000000, F01N0003200000, B01D0053940000, H05B0003140000, F01N0003100000	(71)Name of Applicant : 1)CORNING INCORPORATED Address of Applicant :1 Riverfront Plaza, Corning, New York 14831, USA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Collins, Thomas Adam
(33) Name of priority country	:NA	2)Heine, David Robert
(86) International Application No	:NA	3)Shinde, Avinash Tukaram
Filing Date	:NA	4)Zhong, Danhong
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electrical heater, an exhaust treatment assembly, and method of manufacture. The heater includes a resistive portion configured to generate heat when electrical current is passed therethrough. A plurality of slots extend into the resistive portion from an outer periphery of the resistive portion and define a serpentine current-carrying path extending through the resistive portion between a pair of electrode attachment portions. Each of the electrode attachment portions is connected to a respective end segment that is bounded between an outer periphery of the resistive portion and a respective first slot of the plurality of slots. At least one auxiliary slot in each of the end segments that extends from the outer periphery toward the first slot in a direction transverse to the first slot to bias current flow through a concentrated region adjacent to and extending along the first slot in each end segment.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055353 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : SERVICE COVER WITH SNAP LOCK FOR VEHICLE BODY

(51) International classification	:B60B0007060000, B60R0013080000, E05B0085040000, B65D0047320000, B60R0007040000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Balaji Viswanath N 2)Karthik T
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cover assembly 200 for a vehicle body 304 is disclosed, including a cover 202 configured to selectively cover and uncover a cavity 302 in the vehicle body 304. The cover 202 is movably coupled to the vehicle body 304 to move between an open position in which the cover 202 uncovers the cavity 302 and a closed position in which the cover 202 covers the cavity 302. A snap protrusion 210 is coupled to the cover 202 and configured to detachably engage with a slot 306 in the vehicle body 304 when the cover 202 is moved to the closed position to lock the cover 202 at the closed position. When the cover 202 is further pushed inward, the snap protrusion 210 disengages from the slot 306 to allow movement of the cover 202 to the open position from the closed position.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055354 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : MODULAR SNAP-FIT FASTENER

(51) International classification	:H02G0003320000, A61B0017170000, F16B0033000000, F16B0005060000, F16K0027040000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sathiyaraj Gunasekaran
(33) Name of priority country	:NA	2)Ajay Bhise
(86) International Application No	:NA	3)Ipsita Mishra
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fastening element 200 for fixing an article on a mounting interface is disclosed is disclosed. The fastening element 200 includes a stud 202 having a base 206 to be mounted on the mounting interface and a nail portion 208 to be received in a hole of the article such that a portion of the nail portion 208 is projected outside of the hole. The nail portion 208 includes first locking features 210. In addition, the fastening element 200 includes a cap 204 for snap fit locking with the stud 202 such that the article is sandwiched between stud 202 and the cap 204. The cap 204 includes a locking hole 212 to receive the nail portion 208 and second locking features 214 for snap fit locking with the first locking features 210 of the nail portion 208.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055366 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : E - BI-CYCLE WITH RETROFIT ELECTRIC POWERED MOTOR

(51) International classification	:G06Q0050260000, B62M0006450000, G01C0021200000, A47G0029120000, H04B0003540000	(71)Name of Applicant : 1)Dr. S. Devaneyan Address of Applicant :A-78, Sushant Lok II, Golf course road, Sector 55, Gurugram, Haryana Haryana India 2)Mr. Ramalingam. P
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Mr. Ramalingam. P
(33) Name of priority country	:NA	2)Dr. S. Devaneyan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In India more people are living BPL (Below Poverty Line) and their low cost transport is bicycle and many of them are travelling for longer distance per day, some of them are carrying essential goods and selling in the streets of villages. Existing electric bicycle is not a good idea of these people, because of high cost and it is not fully indigenous one. In addition to that, existing one can't be manufactured and serviced in rural, whereas this innovation can be.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055381 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A VEHICLE REAR BODY STRUCTURE FOR AESTHETIC STYLING

(51) International classification	:B62D0025080000, B60R0013040000, B60R0011040000, B60R0013020000, B60R0019180000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)VIDYASAGAR PATALAY
(33) Name of priority country	:NA	2)VARUN MENON
(86) International Application No	:NA	3)DEEPAK BABBAR
Filing Date	:NA	4)PARVEEN KUMAR SHARMA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a vehicle rear body structure (700) for aesthetic styling. The vehicle rear body structure (700) comprises a backdoor windshield (902), a quarter garnish (702), and an underlying panel (704). The quarter garnish (702) and the backdoor windshield (902) define a predetermined distance (d) along a width (W) of a vehicle. The quarter garnish (702) and the backdoor windshield (902) define a height difference (D) along a height (H) of the vehicle. The quarter garnish (702) is configured to be disposed above the underlying panel (704). A portion (804) of the underlying panel (704) defines a stepped portion (806).

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : A BACKDOOR TAIL LAMP MOUNTING STRUCTURE

(51) International classification	:B60J0005040000, B60J0005100000, B62J0006040000, B60Q0001260000, B60Q0001300000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ROHIT DANG
(33) Name of priority country	:NA	2)MUKESH MISHRA
(86) International Application No	:NA	3)VARUN CHAUHAN
Filing Date	:NA	4)VIJINDER SINGH
(87) International Publication No	: NA	5)KARTIK DHARMENDRA SAGAR
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter relates to a backdoor tail lamp mounting structure (200). The backdoor tail lamp mounting structure (200) comprises a backdoor inner panel (501), a backdoor outer panel (201) and a bracket (202). The backdoor outer panel (201) has a cut-out provided to facilitate insertion of tail lamp. The bracket (202) is fixedly provided between the backdoor inner panel (501) and the backdoor outer panel (201). The bracket (202) comprises a base (301) and an outer flange (302). The base (301) has a tail lamp cut-out (301a) adapted to facilitate insertion of rear end of the tail lamp. The outer flange (302) integrally originates vertically from outer periphery of the base (301) and extends between the edges of the backdoor outer panel (201) and the backdoor inner panel (501). The profile of lower end of the outer flange (302) slopes downward creating an exit route for water.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055383 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A REAR ENGINE MOUNT BRACKET STRUCTURE

(51) International classification	:A47F0005080000, B64D0027260000, F02C0007200000, B65D0085040000, E06B0009323000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MD SHAHNAWAZ AHMED
(32) Priority Date	:NA	2)KANIKA ACHARYYA
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter disclosed herein relates to a rear engine mount bracket structure (200) for connecting an engine to a cross-member (103) of a vehicle. The bracket structure (200) has side portions (201a, 201b) that have front flanges (203a, 203b) and rear flanges (204a, 204b), wherein the front flanges (203a, 203b) and the rear flanges (204a, 204b) have a front facing side (401) and a back facing side (402). The bracket structure (200) further includes a plurality of rods (301a, 301b) are attached to the front facing side (401) of the rear flanges (204a, 204b) and the back facing side (402) of the front flanges (203a, 203b). A middle portion (202) is situated in between the side portions (201a, 201b), wherein a bottom side of the middle portion (202) is connected to the cross-member (102).

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055407 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A REINFORCEMENT STRUCTURE FOR REAR AXLE OF A VEHICLE

(51) International classification	:B60G0009000000, B60G0009020000, A63C0017000000, B60B0035160000, B60B0035000000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1, Nelson Mandela Road, Vasant Kunj, New Delhi – 110070, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SHRUTI BABBAR
(32) Priority Date	:NA	2)SAVI TAKKAR
(33) Name of priority country	:NA	3)JATIN MITTAL
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter disclosed herein relates to a reinforcement structure for a rear axle (10) of a vehicle. The reinforcement structure includes a U-shaped frame (13) braced at a weld joint (19) joining a central housing (11) and an axle tube (12) of the rear axle (10). The frame has an asymmetrical recess (14) carved on each lateral walls (20) of the frame (13) to accommodate the weld joint (19) in the recess (14). Further, length of the frame (13) is more on the axle tube (12) side than on the central housing (11) side.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055410 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PROCESS FOR PREPARING WATER REPELLANT MILKWEED FLOSS/FIBRE FOR PRESERVING THERMO-REGULATORY PROPERTY THEREOF

(51) International classification	:A61K0036270000, A61C0015040000, C08F0220060000, C08L0023280000, D06M0013432000	(71) Name of Applicant : 1)Northern India Textile Research Association Address of Applicant :(Linked to Ministry of Textiles, Government of India) Sector – 23, Raj Nagar, Ghaziabad – 201 002, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)M.S.PARMAR
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The instant invention can be accomplished by two different approaches as given below: Treating extracted milkweed fibre with chemicals to make it water repellent so that its structure could not collapse when it comes in contact with liquid. - Placing this extracted fibre in between such types of fibres or fabric which do not allow milkweed fibre to come in contact with liquid.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055415 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR PURIFYING AIR WITHIN VEHICLE CABIN

(51) International classification	:B60H0001000000, F02M0035100000, B64D0013060000, G02B0006420000, F02D0009020000	(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ABHISHEK PATEL
(33) Name of priority country	:NA	2)MUKESH KUMAR
(86) International Application No	:NA	3)ANKIT PIMPALKAR
Filing Date	:NA	4)NABIL AHMED
(87) International Publication No	: NA	5)SHRIGANESH UMBARKAR
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system (100) for purifying air within vehicle cabin. The system (100) comprises an air duct (102), a plurality of sensors, a plurality of filters (108, 110, 112) and an actuator mechanism. The air duct (102) comprises a fresh air intake port (116) and a recirculation air intake port (114). The plurality of sensors are configured to sense air quality within the vehicle cabin. The plurality of filters (108, 110, 112) are configured to be engaged and disengaged between the fresh air intake port (116) and the recirculation air intake port (114). The actuator mechanism actuates the engagement and disengagement of the plurality of filters (108, 110, 112) between the fresh air intake port (116) and the recirculation air intake port (114).

No. of Pages : 33 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054698 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PEN ASSEMBLY TO MEASURE GLUCOSE & CHOLESTEROL LEVELS AND THEIR RECORD KEEPING VIA WI-FI

(51) International classification	:A61B0005150000, A61B0005151000, G01N0033520000, G16H0010600000, C12Q0001540000	(71)Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Monika Sharma
(32) Priority Date	:NA	2)Deepa Gupta
(33) Name of priority country	:NA	3)Chelsea Chauhan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a pen assembly to measure glucose & cholesterol levels and their record keeping via Wi-Fi, which is implemented for the perfect solution for measuring glucose and cholesterol levels. To show the results, two LCD displays are shown along with the light indicators for various levels. For example, red light will turn on for the respective level if it is high. Similarly, yellow light for normal level and green light for low-level. The pen has a button for lancing needle to prick the finger for blood. Also, the top view of the pen is shown where the test strip will be inserted. There is also a single red light on top of the pen which will blink when 'find the device' is clicked in the mobile app along with the alert sound from the small speaker inside the pen.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : SYNERGISTIC COMPOSITION OF QUINAZOLINONE COMPOUNDS WITH RIFAMPICIN TO POTENTIATE EFFICACY AGAINST M. TUBERCULOSIS

(51) International classification	:A61K0031496000, C07D0471040000, C07D0498040000, A61K0009480000, C07D0239910000	(71)Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860) Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Rafi Marg New Delhi Delhi India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Anil Kumar Singh
(33) Name of priority country	:NA	2)Tejosmita Sen
(86) International Application No	:NA	3)Pranjal Gogoi
Filing Date	:NA	4)Kashmiri Neog
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a synergistic composition to potentiate the efficacy of rifampicin against Mycobacterium tuberculosis comprising:(a)a quinazolinone compounds of Formula I wherein R1 is selected from the group consisting of H, Br, Cl and F and R2 is selected from the group consisting of H, Cl, F and Me and (c) rifampicin, wherein the ratio of compounds of Formula I to rifampicin is 1:0.007 The present invention also demonstrates the synergistic properties and cytotoxicity assay of the lli7-pyrido[2,l-&]quinazolin-ll-onecompounds that also demonstrates the ability to inhibit intracellular growth of M. tuberculosis. The compounds showed excellent properties to reduce the expression of rifampicin efflux pumps.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055736 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ENHANCED PHOTOVOLTAIC ROOFING TILE SYSTEM WITH COMPRESSIBLE WEATHER SEALS

(51) International classification	:H02S0020250000, H02S0020230000, E04D0012000000, A61B0017340000, F24S0025400000	(71)Name of Applicant : 1)Arka Energy Inc. Address of Applicant :5064 Sloan Way, Union City, CA 94587, United States of America. U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)BHARAT MALAPAREDDY
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a robust and effective solution to an entity or an organization by enabling them to implement a system that may provide enhanced photovoltaic roofing tiles with an inbuilt/integrated compressible weather seal components and mounting systems for Building Integrated Photovoltaics (BIPV) applications. The compressible weather seal can provide a high resistance withstanding even from wind-driven rains, improve the reliability of BIPV balance of systems, and protect the roof components such as underlayment and plywood deck. The photovoltaic tiles have clamping mechanism and cut-outs for installation of the photovoltaic tile to a locking mechanism of a base footing. The base footing is installed to a residential roof plywood deck using self-tapping mechanisms. The uninstallation of the BIPV tile can be done without removing adjacent tile by inserting a tool and thereby squeezing the compressible weather seal component without hand access or visual access.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044965 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : CHANNEL PROCESSING METHOD, APPARATUS, DEVICE AND STORAGE MEDIUM

(51) International classification :H04W 72/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/074507
Filing Date :07/02/2020
(87) International Publication No :WO 2021/155574
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
**1)GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.**
Address of Applicant :No.18, Haibin Road, Wusha, Chang'an,
Dongguan, Guangdong 523860 China
(72)Name of Inventor :
**1)LI, Haitao
2)YOU, Xin
3)FU, Zhe**

(57) Abstract :

Provided in the embodiments of the present application are an channel processing method and an apparatus, and a device and a storage medium, the method comprising: acquiring an uplink transmission resource and an identifier for a HARQ process used for transmitting data on the uplink transmission resource, and then on the basis of a HARQ feedback function state of the HARQ process and a HARQ feedback function property for each logical channel, determining a candidate logical channel set multiplexed on the uplink transmission resource. Thus, a terminal device is able to select, on the basis of QoS requirements held by different services, multiplexed candidate logical channels for performing data transmission, thereby satisfying requirements for transmission time lag and/or reliability, improving service experience for a user.

No. of Pages : 59 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055723 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMPOSITION FOR PRESERVATION OF ORGANIC OBJECTS

(51) International classification	:A61K0048000000, A01N0037460000, A01N0001020000, A61K0047220000, C12N0007000000	(71)Name of Applicant : 1)Rajasthan University of Veterinary & Animal Sciences Address of Applicant :Vijay Bhawan Palace Complex, Veterinary University Road, Near Deen Dayal Upadhyay Circle, Bikaner – 334001, Rajasthan, India Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)JOSHI, Dr. Hemant
(33) Name of priority country	:NA	2)JOSHI, Dr. Rajiv Kumar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a composition for preservation of organic objects comprising Bee Wax, Linseed {Linum usitatissimum) oil, Karanj (Millettia pinnata) oil, Turpentine oil and Vinegar. The composition is non-toxic, organic, user friendly and environmental friendly and is capable of preserving the organic objects while imparting a lustrous surface to the object. The invention also relates to a process to prepare the composition for preservation of organic objects and process to apply the composition on the surface of organic object.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055734 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ENHANCED PHOTOVOLTAIC ROOFING TILE SYSTEM

(51) International classification	:H02S0020230000, H02S0020250000, G06F0008610000, F24S0025600000, F24S0020670000	(71)Name of Applicant : 1)Arka Energy Inc. Address of Applicant :5064 Sloan Way, Union City, CA 94587, United States of America. U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)BHARAT MALAPAREDDY
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a unique and inventive solution for facilitating a photovoltaic roofing tile system for building integrated photovoltaics (BIPV) roof applications. The present invention provides a robust and effective solution to an entity or an organization by enabling them to implement a system that may have at least a single side spring clamp that may be configured to lock into a bottom footing when pushed down. The system may not require any fasteners for installing photovoltaic roofing. The photovoltaic roofing tile can be unlocked or uninstalled with a customized tool without requiring any visual or hand access for uninstallation, and thus can make it easy to remove for replacements. Further, the BIPV tiles can be overlapped resembling conventional slate or Spanish tiles, giving a good aesthetic appeal of the roof.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055735 A

(19) INDIA

(22) Date of filing of Application :01/12/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : LPG LEVEL DETECTION AND AUTOMATED BOOKING SYSTEM

(51) International classification	:F17C0013020000, F16K0001300000, G06Q0010020000, G08B0021180000, G01F0023000000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MAHAJAN, Pooja
(33) Name of priority country	:NA	2)GUPTA, Appurav
(86) International Application No	:NA	3)GARG, Jayti
Filing Date	:NA	4)GUPTA, D.P.
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a system (100) to detect LPG level and automated booking a cylinder (i.e. tank). The system (100) includes a pressure gauge (102) configured to detect level of the gas in the cylinder, and a control unit (104) configured to analyse the acquired level of the gas in the cylinder, and upon detection of the level below a pre-defined limit, notify a user that the gas level is low in the cylinder. In addition, a cylinder is automatically booked by the system (100) upon detection of the level below the pre-defined limit, thus enables a user to get a refilled cylinder, before the cylinder that is already in use gets empty.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214005104 A

(19) INDIA

(22) Date of filing of Application :31/01/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GENERATING CUSTOM QUERIES MAPPED WITH APPS FOR SYSTEM ADVISORS

(51) International classification	:G06F0009451000, G06F0008610000, G06F0008380000, A43B0017000000, G06F0016245300	(71)Name of Applicant : 1)Schneider Electric Systems USA, Inc. Address of Applicant :70 Mechanic Street, Foxboro, MA, 02035, USA U.S.A.
(31) Priority Document No	:17/538,399	(72)Name of Inventor :
(32) Priority Date	:30/11/2021	1)NALALA POCHAIAH, ANIL KUMAR
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Monitoring an industrial process by building a training dataset of system data representative of status of industrial process parameters and training a custom query engine based on the training dataset. Models are generated using the custom query engine for matching query terms to the system data in response to user input representative of the system data that the user intends to access. Executing one of the models based on the input from the user generates an output retrieving the selected system data from the data tables for visualization.

No. of Pages : 32 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045396 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : MUSCLE TARGETING COMPLEXES AND USES THEREOF FOR TREATING FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY

(51) International classification	:C12N 15/00, C12N 15/09, C12N 15/63, A61K 47/00, A61K 47/50	(71)Name of Applicant : 1)DYNE THERAPEUTICS, INC. Address of Applicant :1560 Trapelo Road Waltham, MA 02451 U.S.A.
(31) Priority Document No	:62/959788	(72)Name of Inventor :
(32) Priority Date	:10/01/2020	1)SUBRAMANIAN, Romesh R.
(33) Name of priority country	:U.S.A.	2)QATANANI, Mohammed T.
(86) International Application No	:PCT/US2021/012719	3)WEEDEN, Timothy
Filing Date	:08/01/2021	4)DESJARDINS, Cody A.
(87) International Publication No	:WO 2021/142275	5)QUINN, Brendan
(61) Patent of Addition to Application Number	:NA	6)RHODES, Jason P.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Aspects of the disclosure relate to complexes comprising a muscle-targeting agent covalently linked to a molecular payload. In some embodiments, the muscle-targeting agent specifically binds to an internalizing cell surface receptor on muscle cells. In some embodiments, the molecular payload inhibits expression or activity of DUX4. In some embodiments, the molecular payload is an oligonucleotide, such as an antisense oligonucleotide or RNAi oligonucleotide.

No. of Pages : 259 No. of Claims : 20

(54) Title of the invention : ELECTRONIC DEVICE INCLUDING PRINTED CIRCUIT BOARD

(51) International classification :H04M 1/02, H05K 5/00
 (31) Priority Document No :10-2020-0012615
 (32) Priority Date :03/02/2020
 (33) Name of priority country :Republic of Korea
 (86) International Application No :PCT/KR2021/001417
 Filing Date :03/02/2021
 (87) International Publication No :WO 2021/158011
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)SAMSUNG ELECTRONICS CO., LTD.Address of Applicant :129, Samsung-ro, Yeongtong-gu
Suwon-si, Gyeonggi-do 16677 Republic of Korea

(72)Name of Inventor :

1)GO, Kwangeun**2)GIL, Kwangmin****3)KIM, Taesik****4)NAM, Minhyuk****5)JO, Myungjae**

(57) Abstract :

An electronic device according to various embodiments disclosed in the present document may comprise: a housing which includes a mounting portion and an inner wall portion extending in a first direction with respect to the mounting portion; a printed circuit board which is mounted on the mounting portion of the housing and which includes an outer wall portion that is substantially parallel to the inner wall portion of the housing when mounted on the mounting portion of the housing; a clip member including a clip portion which is arranged at a position adjacent to the outer wall portion of the printed circuit board to be electrically connected to the printed circuit board and which protrudes toward the inner wall portion to be in contact with the inner wall portion; a protruding guide which is spaced apart from the clip portion in a second direction that is opposite to the first direction, and which protrudes from the outer wall portion of the printed circuit board toward the inner wall portion of the housing; and a guide recess formed in the inner wall portion of the housing so as to accommodate the protruding guide when the printed circuit board is mounted on the mounting portion of the housing. Various other embodiments are possible.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044367 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification :H04W 28/20

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2020/074656

Filing Date :10/02/2020

(87) International Publication No :WO 2021/159246

(61) Patent of Addition to Application :NA

Number :NA

Filing Date

:NA

(62) Divisional to Application Number :NA

Filing Date

:NA

(71)Name of Applicant :

1)GUANGDONG OPPO MOBILE

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Dongguan, Guangdong 523860 China

(72)Name of Inventor :

1)XU, Weijie

2)WANG, Shukun

(57) Abstract :

Embodiments of the present application provide a communication method and apparatus. The method comprises: obtaining configuration information of at least one initial active downlink bandwidth part (BWP); and determining a first initial active downlink BWP corresponding to the terminal device according to the configuration information of the at least one initial active downlink BWP. A terminal device determines a first initial active downlink BWP corresponding to the terminal device according to the configuration information of at least one initial active downlink BWP, so as to ensure that each terminal device selects the initial active downlink BWP according to its actual requirements, thereby avoiding the problem of low communication efficiency caused by each terminal device having the same initial active downlink BWP.

No. of Pages : 53 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044369 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : INFORMATION PROCESSING METHOD AND DEVICE

(51) International classification :H04L 1/16

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2020/074558
Filing Date :07/02/2020

(87) International Publication No :WO 2021/155604

(61) Patent of Addition to Application
Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)GUANGDONG OPPO MOBILE

TELECOMMUNICATIONS CORP., LTD.

Address of Applicant :No.18, Haibin Road, Wusha, Chang'an
Dongguan, Guangdong 523860 China

(72)Name of Inventor :

1)LIN, Yanan

2)XU, Jing

3)WU, Zuomin

(57) Abstract :

Embodiments of the present application provide an information processing method and a device. The method is applied to a terminal device. The method comprises: determining first information corresponding to first DCI, the first information being used for packet transmission of ACK/NACK information, and a physical channel corresponding to the first DCI being associated with priority information. By means of the embodiments of the present application, the transmission performance of ACK/NACK information can be ensured.

No. of Pages : 23 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044370 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : FUNGICIDAL AMIDES

(51) International classification	:C07D 213/69, C07D 401/12, C07D 405/12, C07C 15/04, A01N 43/40	(71)Name of Applicant : 1)FMC CORPORATION Address of Applicant :2929 Walnut Street Philadelphia, PA 19104 U.S.A.
(31) Priority Document No	:62/961268	(72)Name of Inventor :
(32) Priority Date	:15/01/2020	1)REDDY, Ravisekhara, P
(33) Name of priority country	:U.S.A.	2)MCMAHON, Travis, Chandler
(86) International Application No	:PCT/US2021/013578	3)CHITTABOINA, Srinivas
Filing Date	:15/01/2021	
(87) International Publication No	:WO 2021/146522	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are compounds of Formula 1 including all geometric and stereoisomers, N-oxides, and salts thereof, (I) wherein Z, X, R1, R2, W, R3, R4a, R4b, L, R5a, R5b and Q are as defined in the disclosure. Also disclosed are compositions containing the compounds of Formula 1 and methods for controlling plant disease caused by a fungal pathogen comprising applying an effective amount of a compound or a composition of the invention.

No. of Pages : 108 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044371 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : WAXY BUILD MATERIALS FOR THREE-DIMENSIONAL PRINTING APPLICATIONS

(51) International classification	:C09D 11/12, C09D 11/34, C09D 11/38, B33Y 70/00	(71)Name of Applicant : 1)3D SYSTEMS, INC. Address of Applicant :333 Three D Systems Circle Rock Hill, SC 29730 U.S.A.
(31) Priority Document No	:62/965341	(72)Name of Inventor :
(32) Priority Date	:24/01/2020	1)WU, Bo
(33) Name of priority country	:U.S.A.	2)BROOKFIELD, John
(86) International Application No	:PCT/US2021/014567	3)THOMAS, JR., Jule, W.
Filing Date	:22/01/2021	
(87) International Publication No	:WO 2021/150863	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one aspect, waxy build material inks are described herein which, in some embodiments, exhibit desirable print quality and associated mechanical properties for three-dimensional printing applications. A build material ink, in some embodiments, comprises 20-40 wt.% rosin component, 5-35 wt.% non-polar wax component, and 40-65 wt.% alcohol wax component comprising one or more waxes of the formula $(C_nH_{2n+1})OH$ wherein n is an integer from 15 to 40. In another aspect, a build material ink comprises a eutectic mixture including rosin component, a non-polar wax component, and an alcohol wax component comprising one or more waxes of the formula $(C_nH_{2n+1})OH$ wherein n is an integer from 15 to 40.

No. of Pages : 15 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055049 A

(19) INDIA

(22) Date of filing of Application :26/11/2021

(43) Publication Date : 02/06/2023

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF INDOLMYCIN AND DERIVATIVES THEREOF

(51) International classification	:C07D0413060000, C07D0277300000, C07D0303360000, A23L0033115000, C07B0059000000	(71) Name of Applicant : 1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Address of Applicant :Anusandhan Bhawan, 2-Rafi Marg New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Syed Gulam Dastager
(33) Name of priority country	:NA	2)Madhukar Shyam Said
(86) International Application No	:NA	3)Abujunaid Khan
Filing Date	:NA	4)Amol Arvind Kulkarni
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a new, simple, two step synthesis of Indolmycin and its derivatives of formula (I), in 4-5 hours.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044752 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : CONTROL METHOD FOR SURGICAL ROBOT ARM, COMPUTER DEVICE, AND SURGICAL ROBOT ARM

(51) International classification :A61B 34/35
(31) Priority Document No :202010076419.0
(32) Priority Date :23/01/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2020/101996
Filing Date :15/07/2020
(87) International Publication No :WO 2021/147265
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)NOAHTRON INTELLIGENCE MEDTECH (HANGZHOU) CO., LTD.
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(72)Name of Inventor :
1)HUANG, Shandeng
2)BAI, Long
3)CHEN, Xiaohong
4)LIU, Jianfei

(57) Abstract :

Disclosed are a control method for a surgical robot arm, a computer device, and the surgical robot arm. The control method comprises: performing calculation according to a target point to obtain a telecentric fixed point (F) on an execution rod (1424), and controlling a preoperative positioning assembly (12) to advance a first movable platform (1446) of a telecentric control assembly (144) along a first coordinate axis of a movable coordinate system (S202); performing calculation according to the coordinate of the telecentric fixed point (F) and the trajectory coordinate of an end point (T) to obtain a first origin coordinate of an origin (O M) of the first movable platform (1446) in a stationary coordinate system (S204); performing calculation according to the coordinates of the hinge point of the telecentric control assembly (144) in the stationary coordinate system to obtain the length of a first telescopic element of the telecentric control assembly (144) (S206); and controlling the first movable platform (1446) to move to a designated pose, and determining the designated pose according to the first origin coordinate and the length of the first telescopic element (S208), and thereby realizing the telecentric fixed point (F), and solving the problems of the large structural dimensions of the surgical robot arm and the interference between the surgical robot arms.

No. of Pages : 27 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044753 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SURGICAL ROBOTIC ARM AND SURGICAL ROBOT

(51) International classification :A61B 34/30
(31) Priority Document No :202010076420.3
(32) Priority Date :23/01/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2020/101998
Filing Date :15/07/2020
(87) International Publication No :WO 2021/147267
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :Room 342, Floor 3, Building 2, No. 88, Jiangling Road, Xixing Street, Binjiang District Hangzhou, Zhejiang 310051 China
(72)Name of Inventor :
1)HUANG, Shandeng
2)LIU, Jianfei
3)BAI, Long
4)CHEN, Xiaohong

(57) Abstract :

A surgical robotic arm (100), comprising a presurgical positioning assembly (10), a telecentric manipulating assembly (20), and an executing assembly (30). The telecentric manipulating assembly (20) comprises a static platform (21), a first movable platform (22), and a plurality of first telescopic elements (23) arranged between the static platform (21) and the first movable platform (22); the executing assembly (30) has a preset telecentric fixed point; coordinated extension and retraction of the plurality of first telescopic elements (23) can control the first movable platform (22) to move relative to the static platform (21) and drive the executing assembly (30) to extend and retract and swing; the swing center of the executing assembly (30) is the telecentric fixed point; and the extension and retraction path of the executing assembly (30) passes through the telecentric fixed point. According to the surgical robotic arm (100), a parallel mechanism is formed by the first movable platform (22), the static platform (21), and the plurality of first telescopic elements (23) located between the first movable platform (22) and the static platform (21), and the motion accuracy of the executing assembly (30) is improved by using the error non-cumulative characteristic of the parallel mechanism; in addition, surgical operation of the executing assembly (30) under a higher load can be guaranteed.

No. of Pages : 20 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044763 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR PROVISIONING FUNDING CARD NUMBERS TO THIRD PARTY WALLETS

(51) International classification	:G06Q 20/36, G06Q 20/38, G06Q 20/40, G06Q 20/12, G06F 21/44	(71)Name of Applicant : 1)JPMORGAN CHASE BANK, N. A. Address of Applicant :383 Madison Avenue New York, New York 10179 U.S.A.
(31) Priority Document No	:16/786812	(72)Name of Inventor :
(32) Priority Date	:10/02/2020	1)VUDATHU, Raghuram
(33) Name of priority country	:U.S.A.	2)ARAVAMUDHAN, Sridhar
(86) International Application No	:PCT/US2021/017408	3)CAREY, David Christopher
Filing Date	:10/02/2021	4)PATEL, Shruti K.
(87) International Publication No	:WO 2021/163155	5)WONG, Janice Yoke Leng
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems, methods, and devices for provisioning funding card numbers to merchant wallets are disclosed. In one embodiment, in an information processing apparatus comprising at least one computer processor, a method for provisioning funding card numbers to third party wallets may include: (1) authenticating a customer using an electronic device; (2) redirecting the customer to a third-party website; (3) receiving, from the third-party website and via a first API, a request for funding primary account numbers (FPANs) associated with the customer; (4) providing the third-party website with a plurality of FPAN identifiers for FPANs associated with the customer; (5) receiving, from the third-party website and via a second API, a request for a FPAN associated with a selected FPAN identifier; (6) encrypting the FPAN associated with the selected FPAN identifier; and (7) communicating the encrypted FPAN to the third-party website.

No. of Pages : 14 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044373 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : WATER SOLUBLE WAXY SUPPORT MATERIALS FOR THREE-DIMENSIONAL PRINTING APPLICATIONS

(51) International classification	:C08G 18/24, B33Y 10/00, B33Y 70/00, C08F 283/00, C08G 18/28	(71)Name of Applicant : 1)3D SYSTEMS, INC. Address of Applicant :333 Three D Systems Circle Rock Hill, SC 29730 U.S.A.
(31) Priority Document No	:62/965246	(72)Name of Inventor :
(32) Priority Date	:24/01/2020	1)WU, Bo
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2021/014557	
Filing Date	:22/01/2021	
(87) International Publication No	:WO 2021/150854	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one aspect, urethane waxes are described herein comprising a reaction product between monofunctional polyethylene oxide and polyisocyanate. In some embodiments, the urethane waxes are combined with other components to provide support materials for use in three-dimensional printing applications. A support material ink, for example, comprises a urethane wax comprising a reaction product between monofunctional polyethylene oxide and polyisocyanate. The support material ink, in some embodiments, further comprises monomeric curable material, oligomeric curable material, or mixtures thereof.

No. of Pages : 25 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044391 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : MAIN BEARING HOUSING OF A WIND TURBINE

(51) International classification	:F03D 80/70, F16C 33/66, F16N 31/00, F01M 11/00	(71)Name of Applicant : 1)VESTAS WIND SYSTEMS A/S Address of Applicant :Hedeager 42 8200 Aarhus N Denmark
(31) Priority Document No	:PA 2020 70014	(72)Name of Inventor :
(32) Priority Date	:08/01/2020	1)NIELSEN, Thomas Korsgaard
(33) Name of priority country	:Denmark	2)PEDERSEN, Jan Hove
(86) International Application No	:PCT/DK2020/050354	
Filing Date	:11/12/2020	
(87) International Publication No	:WO 2021/139859	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A main bearing housing for supporting a main rotor shaft of a wind turbine, wherein the main bearing housing defines a first end, a second end and a floor region intermediate the first and second ends. The main bearing housing comprises a first bearing arrangement positioned at the first end of the main bearing housing, a second bearing arrangement positioned at the second end of the main bearing housing, wherein the floor region includes a first oil sump positioned at the first bearing arrangement, and a second sump positioned at the second bearing arrangement. Advantageously, the embodiments of the invention provide that the bearings of the main bearing housing are lubricated by a lubrication system that includes sumps positioned at each of the fore and aft bearings of the main rotor shaft. The fore and aft bearings are therefore supplied with oil at suitable lubrication points and are part of the lubrication system that supplies oil to other components in the wind turbine that require oil lubrication, for example the gearbox and/or the generator bearings. The fore and aft bearings of the main bearing housing therefore do not require a separate lubrication system, such as a grease-based system and so the overall lubrication requirements for the nacelle are simplified.

No. of Pages : 17 No. of Claims : 14

(54) Title of the invention : ANTI-GAL3 ANTIBODIES AND METHODS OF USE

(51) International classification :C07K 16/28, C07K 14/705, A61P 25/00
 (31) Priority Document No :62/960300
 (32) Priority Date :13/01/2020
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2021/013136
 Filing Date :12/01/2021
 (87) International Publication No :WO 2021/146218
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)TRUEBINDING, INC.Address of Applicant :300 Lincoln Centre Drive, Suite 200
Foster City, California 94404 U.S.A.

(72)Name of Inventor :

1)SUN, Dongxu**2)RASOOL, Suhail****3)GORDON, Catherine A.****4)HONG, Ke****5)CHEN, Fan****6)BOLIN, Sara Matilda****7)SHCHORS, Ksenya****8)YU, Yadong****9)TSAL, Tsung-Huang****10)WILLIAMS, Samuel A.F.****11)LALA, Karan****12)WU, Heng****13)WANG, Yan**

(57) Abstract :

Disclosed herein are antibodies and compositions used for binding to Gal3. Some embodiments allow for disrupting interactions between Galectin-3 (Gal3) and cell surface markers and/or proteins associated with neurological diseases and/or proteopathies, such as Alzheimer's disease. Additionally, disclosed herein are methods of treatment and uses of the antibodies or binding fragments thereof for the treatment of fibrosis, liver fibrosis, kidney fibrosis, cardiac fibrosis, pulmonary fibrosis, non-alcoholic fatty liver disease, non-alcoholic steatohepatitis, sepsis, atopic dermatitis, psoriasis, cancer, brain cancer, breast cancer, colorectal cancer, kidney cancer, liver cancer, lung cancer, pancreatic cancer, bladder cancer, stomach cancer, hematological malignancy, neurological diseases and/or proteopathies. Furthermore, some embodiments provided herein can cross the blood-brain barrier and can be conjugated or otherwise associated with one or more payloads for the treatment of a neurological disease.

No. of Pages : 311 No. of Claims : 99

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044396 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : CERAMIC CROSS-LINKED COATING ON A POROUS MEMBRANE

(51) International classification	:H01M 50/411, H01M 50/491, H01M 50/403, H01M 10/0525	(71)Name of Applicant : 1)CELGARD, LLC Address of Applicant :13800 South Lakes Drive Charlotte, NC 28273 U.S.A.
(31) Priority Document No	:62/976200	(72)Name of Inventor :
(32) Priority Date	:13/02/2020	1)YIN, Wenbin
(33) Name of priority country	:U.S.A.	2)RAPLEY, James
(86) International Application No	:PCT/US2021/017853	3)YU, Xiang
Filing Date	:12/02/2021	4)REINARTZ, Stefan
(87) International Publication No	:WO 2021/163478	5)MASUI, Yuji
(61) Patent of Addition to Application Number	:NA	6)NARUSHIMA, Daisuke
Filing Date	:NA	7)IWASAKI, Yuya
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A porous membrane having a cross-linked ceramic coating on at least one side thereof is disclosed. The coated porous membrane may be used as a battery separator, particularly a battery separator for a lithium ion battery. The coating includes at least a cross-linker and a ceramic. The cross-linker may be a particulate polymeric binder cross-linker, a PEO (PEG) cross-linker, or a POSS cross-linker. The coated membrane exhibits improved properties that may be favorable for its use as a battery separator. For example, the coated porous membrane may exhibit improved shrinkage properties and high temperature resistance.

No. of Pages : 29 No. of Claims : 148

(54) Title of the invention : SOLID AND LIQUID/GAS FIRED SMOKELESS WATER TUBE STEAM BOILER WITH COMBUSTION EFFICIENCY MAXIMIZATION SYSTEM FEATURING SOLID FUEL SECTION OPERATING WITH AUTOTHERMIC GASIFICATION METHOD

(51) International classification	:F22B 1/18, F22B 37/00, F22B 37/10	(71)Name of Applicant :
(31) Priority Document No	:TR2020/00185	1)AGEMA MÜHENDISLIK ARASTIRMA GELISTIRME
(32) Priority Date	:07/01/2020	MAKINE ENDÜSTRİYEL TESISLER SANAYİ VE
(33) Name of priority country	:Turkey	TICARET ANONİM ŞİRKETİ
(86) International Application No	:PCT/TR2021/050009	Address of Applicant :A.Ü Teknoloji Geliştirme Bölgesi C
Filing Date	:07/01/2021	Blok 1 Kat No:3 06830 Gölbaşı/Ankara Turkey
(87) International Publication No	:WO 2021/141564	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)ÖZCAN, Ali Nizami
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

As explained in detail above, the invention is a steam boiler system, comprised of a gasifier thermomechanical system (12) operating with autothermic gasification method by automatically adjusting according to the characteristics of the solid fuel used, combustion thermomechanical system (15) that minimizes the combustion losses for the gas and solid part of the coal by realizing the solid fuel part after gasification with the smokeless combustion process in the same combustion chamber, gasification and combustion air intake - distribution mechanical system (13) that distributes the gasification and combustion air according to the needs of the system, electromechanical control and automation system (14) that adjusts the working system of the boiler and enables maximization of combustion efficiency by using parameters that determine the combustion efficiency in the combustion product gases, and manages the combustion process with gasification and combustion efficiency maximization system (16) with full automation working with autothermic gasification method that maximizes the combustion efficiency by minimizing the combustion losses of both the autothermic gasification product gases and the post-gasification solid fuel combustion losses.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044968 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD OF DETERMINING AN OPTICAL PATHLENGTH THROUGH A CUVETTE

(51) International classification :G01N 21/27, G01N 21/03
(31) Priority Document No :PA202000051
(32) Priority Date :16/01/2020
(33) Name of priority country :Denmark
(86) International Application No :PCT/IB2020/059690
Filing Date :15/10/2020
(87) International Publication No :WO 2021/144630
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)FOSS ANALYTICAL A/S
Address of Applicant :Nils Foss Alle 1 3400 Hilleroed
Denmark
(72)Name of Inventor :
1)CLAUSEN, Jeppe Sandvik

(57) Abstract :

A method for determining an optical pathlength (L) of a cuvette of a spectrophotometric apparatus comprising: obtaining (720) a single beam spectrum (SBZ) of a liquid zero-material at least in a first energy region in which the liquid zero-material absorbs; obtaining (740) a single beam spectrum (SB2) of a second liquid at least in the first energy region, the second liquid having a composition excluding the liquid zero-material and having no absorption in the first energy region; determining (760) a dual beam spectrum (DBZ) of the liquid zero-material relative to the second liquid at least in the first energy region from the two obtained single beam spectra (SBZ; SB2); and calculating (780) an optical pathlength (L) through the cuvette dependant on spectral information obtained from the first energy region of the determined dual beam spectrum (DBZ).

No. of Pages : 15 No. of Claims : 11

(54) Title of the invention : METHODS, APPARATUS AND SYSTEMS FOR MULTI-ACCESS PROTOCOL DATA UNIT SESSIONS

(51) International classification	:H04W 76/15, H04W 88/06	(71)Name of Applicant :
(31) Priority Document No	:62/975814	1)IDAC HOLDINGS, INC.
(32) Priority Date	:13/02/2020	Address of Applicant :200 Bellevue Parkway Suite 300
(33) Name of priority country	:U.S.A.	Wilmington, Delaware 19809 U.S.A.
(86) International Application No	:PCT/US2021/018117	(72)Name of Inventor :
Filing Date	:15/02/2021	1)WANG, Guanzhou
(87) International Publication No	:WO 2021/163665	2)AHMAD, Saad
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A wireless transmit/receive unit (WTRU) may establish a multi-access (MA) protocol data unit (PDU) in accordance with the examples described herein. The WTRU may establish a new packet data network (PDN) connection or identify a suitable existing PDN connection in an evolved packet core (EPC), establish a MA-PDU in a 5G core network (5GC), and associate the existing PDN with the MA-PDU. The WTRU may already have a MA-PDU session established in 5GC with both 3GPP access leg and non- 3GPP access leg in 5GC, and the WTRU may replace the 3GPP access leg in 5GC with a suitable PDN connection in EPC. The WTRU may send a request for establishing a single-access PDU session in 5GC via non-3GPP access, and a 5GC network may upgrade a PDU session established for the WTRU to a MA-PDU with 3GPP access leg in EPC.

No. of Pages : 38 No. of Claims : 15

(54) Title of the invention : METHODS OF DELIVERY MODE SWITCH FOR MULTICAST AND BROADCAST SERVICE IN A 5G NETWORK

(51) International classification :H04W 4/06, H04W 76/40, H04W 36/00
 (31) Priority Document No :62/975858
 (32) Priority Date :13/02/2020
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2021/017563
 Filing Date :11/02/2021
 (87) International Publication No :WO 2021/163260
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)INTERDIGITAL PATENT HOLDINGS, INC.

Address of Applicant :200 Bellevue Parkway Suite 300
 Wilmington, DE 19809-3727 U.S.A.

(72)Name of Inventor :

1)LI, Hongkun

2)STARSINIC, Michael

3)ADJAKPLE, Pascal

4)LY, Quang

5)NINGLEKHU, Jiwan

6)MLADIN, Catalina

(57) Abstract :

An overall architecture to integrate multicast and broadcast service into a general 5G core network. The architecture may provide methods and systems to switch the delivery mode of transmitting messages to User Equipment (UE)s from a unicast mode to a multicast mode. The method includes triggering events at UE, network functions, content provider or RAN node to initiate the switch process; a procedure for UE initiated switch from unicast to multicast; a procedure for network-initiated switch from unicast mode to multicast mode; and a procedure for RAN initiated switch from unicast mode to multicast mode. The architecture may also provide methods to switch the delivery mode from multicast mode to unicast mode. These methods may include triggering events at UE, network functions, content provider or RAN node to initiate the switch process; a procedure for UE initiated switch from multicast mode to unicast mode; a procedure for network-initiated switch from multicast mode to unicast mode; and a procedure for RAN initiated switch from multicast mode to unicast mode.

No. of Pages : 59 No. of Claims : 20

(54) Title of the invention : PEPTIDE IMMUNOGENS TARGETING PITUITARY ADENYLATE CYCLASE-ACTIVATING PEPTIDE (PACAP) AND FORMULATIONS THEREOF FOR PREVENTION AND TREATMENT OF MIGRAINE

(51) International classification	:C07K 14/575, C07K 7/08, A61K 39/00, A61K 39/08, A61P 25/06	(71)Name of Applicant : 1)UNITED BIOMEDICAL, INC. Address of Applicant :25 Davids Drive Hauppauge, NY 11788 U.S.A.
(31) Priority Document No	:62/964953	(72)Name of Inventor :
(32) Priority Date	:23/01/2020	1)WANG, Chang Yi
(33) Name of priority country	:U.S.A.	2)LIN, Feng
(86) International Application No	:PCT/US2021/014640	3)DING, Shuang
Filing Date	:22/01/2021	
(87) International Publication No	:WO 2021/150910	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure is directed to peptide immunogen constructs targeting portions of Pituitary adenylate cyclase-activating polypeptide (PACAP), compositions containing the constructs, antibodies elicited by the constructs, and methods for making and using the constructs and compositions thereof. The disclosed peptide immunogen constructs have more than about 20 amino acids and contain (a) a B cell epitope having about more than about 9 contiguous amino acid residues from the PACAP receptor binding or activation regions of the full-length PACAP protein; (b) a heterologous Th epitope; and (c) an optional heterologous spacer. The disclosed PACAP peptide immunogen constructs stimulate the generation of highly specific antibodies directed PACAP for the prevention and/or treatment of migraine.

No. of Pages : 64 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044779 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SHRIMP PROCESSING APPARATUS AND METHODS

(51) International classification :A22C 29/02, A22C 29/00		(71)Name of Applicant :
(31) Priority Document No :62/971653		1)NOVA-TECH ENGINEERING, LLC
(32) Priority Date :07/02/2020		Address of Applicant :1705 Engineering Avenue NE Willmar, Minnesota 56201 U.S.A.
(33) Name of priority country :U.S.A.		(72)Name of Inventor :
(86) International Application No :PCT/US2021/016786		1)EID, Elliot D.
Filing Date :05/02/2021		2)HARKESS, Roger
(87) International Publication No :WO 2021/158897		3)GRAMSTAD, Derek
(61) Patent of Addition to Application Number :NA		4)IMDIEKE, Jeremy
Filing Date :NA		5)JOHNSON, Robert
(62) Divisional to Application Number :NA		6)MOLENAAR, Dana Mathew
Filing Date :NA		7)ROONEY, Jacob
		8)STARK, Christopher J.
		9)STECKELBERG, John
		10)THIEL, Joseph
		11)ZINDA, Marc

(57) Abstract :

Shrimp processing apparatus to peel shrimp along with methods for peeling shrimp are described herein. The shrimp processing apparatus may be provided in systems including one or more processing stations configured to peel individual shrimp, where peeling may involve removal of shell segments on the dorsal surfaces of the shrimp abdomen and/or removal of pleopods/swimmerets on the ventral surfaces of the shrimp abdomen and, optionally, separation of shell segments. The processing systems and methods may, in one or more embodiments, include apparatus for and methods of measuring the shrimp.

No. of Pages : 123 No. of Claims : 78

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044780 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMPOSITE MEMBRANE AND METHODS OF FABRICATION THEREOF

(51) International classification	:B01D 69/12, B01D 67/00, B01D 61/02, B01D 71/36, B01D 69/10	(71)Name of Applicant : 1)NATIONAL UNIVERSITY OF SINGAPORE Address of Applicant :21 LOWER KENT RIDGE ROAD Singapore 119077 Singapore
(31) Priority Document No	:10202001089U	(72)Name of Inventor :
(32) Priority Date	:06/02/2020	1)SHI, Guimin
(33) Name of priority country	:Singapore	2)CHUNG, Tai-Shung Neal
(86) International Application No	:PCT/SG2021/050043	
Filing Date	:29/01/2021	
(87) International Publication No	:WO 2021/158173	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates, in general terms, to a composite membrane for use in filtration. The present invention also relates to a method of fabricating the composite membrane, and a method of filtrating using the composite membrane as disclosed herein. The method of fabricating a composite membrane comprising contacting a perfluorinated polymer solution with a surface of a polymer layer and drying the perfluorinated polymer solution at a relative humidity of less than 20% to form a perfluorinated polymer layer physisorbed on the surface of the polymer layer.

No. of Pages : 35 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044781 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR PREVENTING OR REDUCING CANNABACEAE BIOMASS DECOMPOSITION

(51) International classification	:B65B 29/00, A01N 3/00, A61K 36/185, B65B 31/04, B65D 81/20
(31) Priority Document No	:62/967648
(32) Priority Date	:30/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CA2021/050093
Filing Date	:29/01/2021
(87) International Publication No	:WO 2021/151198
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)PURCANN PHARMA INC.

Address of Applicant :2500 boul. du Parc-Technologique,
Québec, Québec G1P 4S6 Canada

(72)Name of Inventor :

1)GIRET, Simon

2)GOSSELIN, André

3)MELLON, Christophe

(57) Abstract :

The present disclosure relates to a method for preventing or reducing cannabaceae biomass decomposition during storage by packaging an amount of the biomass in a flexible film of gas impervious material to provide a cannabaceae biomass package which is impermeable to gases.

No. of Pages : 17 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044789 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : CANTILEVER FOR A PIEZOELECTRIC ENERGY HARVESTING SYSTEM

(51) International classification	:H01L 41/113, H01L 41/09, H01L 41/08, H02N 2/18	(71)Name of Applicant : 1)UAB NANOENERGIJA Address of Applicant :Ausros str. 13-6 65192 Varena Lithuania
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)MARKEVICIUS, Vytautas
(33) Name of priority country	:NA	2)PONAMARIOV, Donat
(86) International Application No	:PCT/EP2020/071552	
Filing Date	:30/07/2020	
(87) International Publication No	:WO 2022/022831	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cantilever for a piezoelectric energy harvesting system, wherein the cantilever (2,20,30) comprises two layers (21,22,31,32) formed of polyvinylidene fluoride, and wherein a core layer (23,33) formed of a shim material is sandwiched between the two layers (21,22,31,32) formed of polyvinylidene fluoride.

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044833 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A BOTTLENECK INSERT

(51) International classification	:B65D 81/32
(31) Priority Document No	:P.433109
(32) Priority Date	:03/03/2020
(33) Name of priority country	:Poland
(86) International Application No	:PCT/EP2021/054248
Filing Date	:20/02/2021
(87) International Publication No	:WO 2021/175628
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ADAMCZEWSKI, Marek

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2)ZIMNY, Dariusz

(72)Name of Inventor :

1)ADAMCZEWSKI, Marek

(57) Abstract :

A bottleneck insert comprising: a cylindrical body (10); a tube (12) located inside the body (10), coaxial with the body (10) and extending through along the body (10), wherein the tube (12) is connected to a side wall of the body (10) by means of a base (14) located at a first end (15) of the side wall of the body (10); and a sieve (20) formed as a circular ring and located between the tube (12) and the side wall of the body (10).

No. of Pages : 7 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044398 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : STRADDLE-TYPE VEHICLE, COMMUNICATION UNIT, CONTROL METHOD, AND STORAGE MEDIUM

(51) International classification	:B62H 5/04, B60R 25/0215, E05B 65/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2020/004614
Filing Date	:06/02/2020
(87) International Publication No	:WO 2021/157025
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)HONDA MOTOR CO., LTD.

Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan

(72)Name of Inventor :

1)NOGUCHI, Kohei

2)MORI, Yotaro

(57) Abstract :

A straddle-type vehicle comprises a control means for controlling at least some functions of the straddle-type vehicle, a detection means for detecting a locked state of a handlebar of the straddle-type vehicle, and a communication unit. The communication unit includes a switching means that, when a request to end a loan of the straddle-type vehicle has been received, shuts off the operation of the control means on a condition that the detection means detects the locked state.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044399 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SADDLE-TYPE VEHICLE

(51) International classification	:B62H 1/02, B62J 40/00
(31) Priority Document No	:2020-020062
(32) Priority Date	:07/02/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2020/046963
Filing Date	:16/12/2020
(87) International Publication No	:WO 2021/157211
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)HONDA MOTOR CO., LTD.

Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan

(72)Name of Inventor :

1)KAWAME Kazunori

2)SUZUKI Kazuhiro

(57) Abstract :

A saddle-type vehicle (1) comprises a vehicle body (1a), and a center stand (40) that can rotate between an upright state in which the vehicle body (1a) is held in an upright position, and a stowed state, wherein the center stand has: a pair of leg sections (41), and a step section (43) extending in the vehicle width direction from one foot section (41L) of the pair of foot sections (41). The step section (43) is provided with ribs (50). The ribs (50) extend from a step base section (43b) toward a step tip section (43e) and comprise: a first rib (51) located on the base section (43b) side of the step section (43) and a second rib (52) located on the tip section (43e) side of the step section (43). The second rib (52) is provided so as to face forward in the stowed state.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046128 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SWITCHING SYSTEM AND METHOD WITH DOWN TIME, CORRESPONDING COMPUTER PROGRAM

(51) International classification	:H02M 1/38, H02M 1/00, H02M 7/797
(31) Priority Document No	:FR2000412
(32) Priority Date	:16/01/2020
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2021/050814
Filing Date	:15/01/2021
(87) International Publication No	:WO 2021/144425
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)VALEO SIEMENS EAUTOMOTIVE FRANCE

Address of Applicant :14 avenue des Béguines 95800 CERGY

France

(72)Name of Inventor :

1)BOUCHEZ, Boris

2)DIHAL, Mathieu

3)ABDELFATAH, Kolli

(57) Abstract :

The invention relates to a switching system, which includes: - a switching arm (110) including two switches, a high-side switch (Q6) and a low-side switch (Q2); - a control system (114) designed to switch the switching arm (110) alternately between a first configuration in which the high-side switch (Q6) is open and the low-side switch (Q2) is closed, and a second configuration in which the high-side switch (Q6) is closed and the low-side switch (Q2) is open, the control system (114) being designed, for each switching operation, to command the opening of the initially closed switch and then, at the end of a down time, to command the closing of the initially open switch; and - a device (116) for measuring a switch voltage (LVCE) between the terminals (LC, LE) of one of the switches (Q2). The control system (114) is further designed, for each of the at least one switching operation, to: - following the command to open the initially closed switch, monitor the measured switch voltage (LVCE); and - determine the down time for the relevant switching operation based on the monitored switch voltage (LVCE).

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046129 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HOUSING FOR A FAN, AND FAN WITH A CORRESPONDING HOUSING

(51) International classification	:F04D 29/54, F04D 19/00, F04D 29/02, F04D 29/16
(31) Priority Document No	:10 2020 200 447.1
(32) Priority Date	:15/01/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/DE2020/200108
Filing Date	:04/12/2020
(87) International Publication No	:WO 2021/143972
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ZIEHL-ABEGG SE

Address of Applicant :Heinz-Ziehl-Straße 74653 Künzelsau
Germany

(72)Name of Inventor :

1)LOERCHER, Frieder

(57) Abstract :

A housing for a fan, preferably for an axial or diagonal fan, wherein the fan comprises an impeller wheel and at least one throughflow region, is characterized in that a plurality of individual, freestanding guide elements are provided immediately downstream of the impeller wheel or of the blades of the impeller wheel in an outer region of the housing and therefore in the throughflow region. A fan comprises a corresponding housing.

No. of Pages : 18 No. of Claims : 18

(54) Title of the invention : SUPPORT MODULE FOR A FAN AND FAN HAVING A CORRESPONDING SUPPORT MODULE

(51) International classification :F04D 29/42, F04D 29/44, F04D 29/62, F04D 29/66, F04D 25/08

(31) Priority Document No :10 2020 200 363.7

(32) Priority Date :14/01/2020

(33) Name of priority country :Germany

(86) International Application No :PCT/DE2020/200107

Filing Date :04/12/2020

(87) International Publication No :WO 2021/143971

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)ZIEHL-ABEGG SE

Address of Applicant :Heinz-Ziehl-Straße 74653 Künzelsau Germany

(72)Name of Inventor :

1)LOERCHER, Frieder**2)HUB, Sandra****3)GOELLER, Matthias**

(57) Abstract :

The invention relates to a support module for a fan, which fan comprises a motor and a fan impeller rotationally driven by the motor, in particular for a radial or diagonal fan, for fastening the fan impeller between an inflow-side nozzle plate and a bottom plate, which lies opposite from the nozzle plate at a distance, the motor together with the fan impeller being mounted, with rotational fixation, on or in the bottom plate and being held on the nozzle plate by means of struts extending between the bottom plate and the nozzle plate. Said support module is characterized in that, in a compact design, the struts are adapted to the flow exiting from the fan impeller. A fan is equipped with a corresponding support module.

No. of Pages : 20 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045399 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : WASTE PLASTIC DENSITY SEPARATION

(51) International classification	:B29B 17/02, B09B 3/00
(31) Priority Document No	:62/972262
(32) Priority Date	:10/02/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/017317
Filing Date	:10/02/2021
(87) International Publication No	:WO 2021/163088
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)EASTMAN CHEMICAL COMPANY
Address of Applicant :200 South Wilcox Drive Kingsport, Tennessee 37660 U.S.A.
(72)**Name of Inventor :**
1)DEBRUIN, Bruce, Roger
2)COLLINGS, Kyle Lyn
3)NELSON, James, Stewart

(57) Abstract :

Methods and systems for separating mixed plastic waste are provided herein. The methods generally comprise separating the mixed plastic waste into a PET-enriched stream and one or more PET-depleted streams. The separating may be accomplished using the combinations of two or more density separation stages. Exemplary density separation stages include sink-float separators and centrifugal force separators. The PET-enriched and PET-depleted streams may be recovered and/or directed to downstream chemical recycling processes.

No. of Pages : 90 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045400 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : TREATED WASTE PLASTIC MATERIALS

(51) International classification	:C08L 67/02, C08L 27/06, C08J 11/00, C08K 5/00, C08K 3/015	(71)Name of Applicant : 1)EASTMAN CHEMICAL COMPANY Address of Applicant :200 South Wilcox Drive Kingsport, TN 37660 U.S.A.
(31) Priority Document No	:62/972267	(72)Name of Inventor :
(32) Priority Date	:10/02/2020	1)DEBBRUIN, Bruce, Roger
(33) Name of priority country	:U.S.A.	2)COLLINGS, Kyle, Lyn
(86) International Application No	:PCT/US2021/017330	3)STANLEY, Robert, Ryan
Filing Date	:10/02/2021	
(87) International Publication No	:WO 2021/163096	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Quantities of plastic solids derived from mixed plastic waste are provided. The quantities can comprise polyolefins and/or polyethylene terephthalate and can be co-located with other quantities of plastic solids. The quantities of solids plastics can comprise particulate plastic solids that are suitable for use as feedstocks to various chemical recycling processes.

No. of Pages : 99 No. of Claims : 30

(54) Title of the invention : COMMUNICATION DEVICE

(51) International classification	:H04W 16/26, H04W 56/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2020/001544
Filing Date	:17/01/2020
(87) International Publication No	:WO 2021/144972
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)TESHIMA Kunihiko
2)HIRATSUKA Daisuke
3)ARAI Takuto
4)UMESH Anil

(57) Abstract :

This communication device constitutes a management node for managing a first base station and/or a second base station disposed on a front haul. The communication device is provided with: an acquisition unit that acquires a delay profile of the second base station; a control unit that determines a window parameter for use in specifying a reception window and/or a transmission window to be used at the first base station, on the basis of the delay profile of the second base station and a delay parameter defined by the front haul; and a notification unit that notifies the first base station of the window parameter.

No. of Pages : 52 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045441 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : FLUID FLOW CONTROL DEVICES AND RELATED SYSTEMS AND METHODS

(51) International classification :F16K 5/12
(31) Priority Document No :62/961582
(32) Priority Date :15/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/012004
Filing Date :01/01/2021
(87) International Publication No :WO 2021/146066
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)FLOWSERVE MANAGEMENT COMPANY
Address of Applicant :5215 North O'Connor Blvd. Irving,
Texas 75039 U.S.A.
(72)Name of Inventor :
1)BUTLER, Bruce, J.
2)HAINES, Bradford, B.
3)PARISH, Paul, J.

(57) Abstract :

Fluid flow control devices and related systems and methods may include a body or housing and a plug at least partially positioned in the body or housing to define a flow path. In a position of the plug, the plug and the body or housing may collectively define a fluid flow path.

No. of Pages : 13 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046246 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HIGH COHESIVE STRENGTH HARD COATINGS CONTAINING SOFT METAL

(51) International classification	:C23C 14/06, A61L 27/30, C04B 35/58, C23C 14/14, A61L 29/16	(71) Name of Applicant : 1)OERLIKON SURFACE SOLUTIONS AG, PFÄFFIKON Address of Applicant :Churerstrasse 120 8808 Pfäffikon Switzerland
(31) Priority Document No	:62/961291	(72) Name of Inventor :
(32) Priority Date	:15/01/2020	1)DRABIK, Martin
(33) Name of priority country	:U.S.A.	2)MANNINEN, Noora
(86) International Application No	:PCT/EP2021/000002	3)ACIKGOZ DOROKIN, Canet
Filing Date	:12/01/2021	
(87) International Publication No	:WO 2021/144142	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for introducing a soft metal into a hard coating during a physical vapor deposition process. The method including steps of providing a substrate; depositing a bonding layer on the substrate; and depositing the hard coating on the bonding layer using vapor deposition wherein the soft metal forms islands in the hard coating.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046247 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : IMAGE CODING DEVICE AND METHOD BASED ON FILTERING-RELATED INFORMATION SIGNALING

(51) International classification	:H04N 19/117, H04N 19/132, H04N 19/82, H04N 19/186, H04N 19/70	(71)Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/961699	(72)Name of Inventor :
(32) Priority Date	:15/01/2020	1)PALURI, Seethal
(33) Name of priority country	:U.S.A.	2)HENDRY, Hendry
(86) International Application No	:PCT/KR2021/000606	
Filing Date	:15/01/2021	
(87) International Publication No	:WO 2021/145725	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to embodiments of the present document, a zero-order exponential Golomb coding scheme(ue(v)) is used for a parsing procedure of an information/syntax element related to luma/chroma ALF filter coefficient absolute values, so that operational overhead and complexity can be reduced. In addition, since the range of values of the information related to the luma/chroma ALF filter coefficient absolute values is fixed, coding that uses ue(v) can be efficiently performed.

No. of Pages : 63 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046263 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR PRODUCING ACYLTHIOUREA COMPOUND

(51) International classification	:C07C 335/24, C07D 215/48, A61K 31/47	(71)Name of Applicant : 1)TAIHO PHARMACEUTICAL CO., LTD.
(31) Priority Document No	:2020-023754	Address of Applicant :1-27, Kandanishiki-cho, Chiyoda-ku,
(32) Priority Date	:14/02/2020	Tokyo 1018444 Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:PCT/JP2021/005272	1)SUDA Yoshimitsu
Filing Date	:12/02/2021	
(87) International Publication No	:WO 2021/162096	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for producing 4-(2-fluoro-4-(3-(2-phenylacetyl)thioureido)phenoxy)-7-methoxy-N-methylquinoline-6-carboxamide, the method comprising a step for linking 4-(4-amino-2-fluorophenoxy)-7-methoxy-N-methylquinoline-6-carboxamide and 2-phenylacetyl isothiocyanate.

No. of Pages : 34 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044842 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMPOSITIONS COMPRISING EXTRACTS OF APLINIA AND OTHER PLANTS FOR IMPROVING JOINT HEALTH AND TREATING ARTHRITIS

(51) International classification	:A61K 36/21, A61K 36/9062, A61K 36/67, A61K 36/575, A61P 19/02	(71)Name of Applicant : 1)UNIGEN, INC. Address of Applicant :2121 South State Street Tacoma, Washington 98405 U.S.A.
(31) Priority Document No	:62/970792	(72)Name of Inventor :
(32) Priority Date	:06/02/2020	1)YIMAM, Mesfin
(33) Name of priority country	:U.S.A.	2)JIAO, Ping
(86) International Application No	:PCT/US2021/016981	3)HORM, Teresa
Filing Date	:07/02/2021	4)HONG, Mei
(87) International Publication No	:WO 2021/159042	5)O'NEAL, Alexandria
(61) Patent of Addition to Application Number	:NA	6)JIA, Qi
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Medicinal plant extracts and their bioactives from Alpinia, Magnolia, Kochia and Piper/Pepper are disclosed herein in combination or alone in regulating homeostasis of chondrocytes, extracellular matrix, articular cartilage, and phenotype of arthritis that lead to enhanced anabolic functions of chondrocytes, increased renewal/rebuilding/regeneration of extracellular matrix and articular cartilage, and improved phenotype of osteoarthritis and rheumatoid arthritis.

No. of Pages : 131 No. of Claims : 61

(54) Title of the invention : CIRCUIT ARRANGEMENT FOR BALANCING A SPLIT DC LINK

(51) International classification	:H02M 3/158, H02M 1/32, H02M 7/487, H02J 7/00, H02J 7/34	(71)Name of Applicant : 1)SMA SOLAR TECHNOLOGY AG Address of Applicant :Sonnenallee 1 34266 Niestetal Germany
(31) Priority Document No	:10 2020 103 839.9	(72)Name of Inventor : 1)MUELLER, Burkard
(32) Priority Date	:13/02/2020	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2021/053570	
Filing Date	:13/02/2021	
(87) International Publication No	:WO 2021/160872	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a circuit arrangement (1) for balancing a split DC link arranged between a first DC terminal (2) and a second DC terminal (3). The first DC terminal (2) is connected to a first intermediate point (5) by means of a first semiconductor switch (T1), the first intermediate point (5) is connected to a bridge center point (6) by means of a second semiconductor switch (T2), the bridge center point (6) is connected to a second intermediate point (7) by means of a third semiconductor switch (T3), and the second intermediate point (7) is connected to the second DC terminal (3) by means of a fourth semiconductor switch (T4). Furthermore, a first terminal of a resonance capacitor (Cres) is connected to the first intermediate point (5), and a second terminal of the resonance capacitor (Cres) is connected to a DC link center point (4) by means of a connection path, in which a resonance choke (Lres) is arranged in a series circuit with the third semiconductor switch (T3) and runs through the second intermediate point (7). An additional winding (L1) is magnetically coupled to the resonance choke (Lres). A first terminal of the additional winding (L1) is connected to a first terminal (22) of a counter voltage source (23) by means of a first diode (D1), and a second terminal of the additional winding (L1) is connected to a second terminal (24) of the counter voltage source (23) such that energy coupled into the additional winding (L1) from the resonance choke (Lres) is discharged into the counter voltage source (23).

No. of Pages : 30 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044847 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : DEGLYCOSYLATION METHODS FOR ELECTROPHORESIS OF GLYCOSYLATED PROTEINS

(51) International classification :G01N 33/58, C07K
1/26, G01N 33/68
(31) Priority Document No :62/963646
(32) Priority Date :21/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/014111
Filing Date :20/01/2021
(87) International Publication No :WO 2021/150558
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)REGENERON PHARMACEUTICALS, INC.
Address of Applicant :777 Old Saw Mill River Road
Tarrytown, New York 10591 U.S.A.
(72)Name of Inventor :
1)ZHAO, Yiming
2)CHEN, Hunter
3)WANG, Shao-Chun
4)RIEHLMAN, Timothy
5)CARREAU, Gabriel
6)WANG, Ying

(57) Abstract :

The disclosure relates to methods of analyzing a post-translationally modified protein of interest using electrophoresis, the methods comprising deglycosylating the protein of interest after labeling.

No. of Pages : 50 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044848 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : RECEIVING DATA WITHOUT MONITORING CONTROL CHANNEL

(51) International classification :H04W 24/02
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/074917
Filing Date :12/02/2020
(87) International Publication No :WO 2021/159327
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)APPLE INC.

Address of Applicant :One Apple Park Way Cupertino,
California 95014 U.S.A.

(72)Name of Inventor :

1)XU, Fangli

2)XU, Fangli

3)ZHANG, Dawei

4)HU, Haijing

5)SHIKARI, Murtaza A.

6)GURUMOORTHY, Sethuraman

7)LOVLEKAR, Srirang A.

8)ZENG, Wei

9)KIM, Yuchul

10)CHEN, Yuqin

11)WU, Zhibin

(57) Abstract :

A method, user equipment (UE) and integrated circuit for receiving data transmitted over a wireless network. The method includes executing an application that receives data from the network, transmitting UE assistance information to the network, wherein the UE assistance information corresponds to a traffic pattern for the data that is received from the network for the application, entering a radio resource control (RRC) inactive state and receiving the data from the network while in the RRC inactive state.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044849 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHODS AND APPARATUS FOR MULTIPLE COMPONENT CARRIER PHYSICAL DOWNLINK SHARED CHANNEL SCHEDULING IN WIRELESS COMMUNICATION

		(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014 U.S.A.
(51) International classification	:H04L 5/00, H04W 72/14	(72)Name of Inventor : 1)YAO, Chunhai 2)YAO, Chunhai 3)ZHANG, Dawei 4)ZENG, Wei 5)SUN, Haitong 6)KIM, Yuchul 7)ZHANG, Yushu 8)YE, Chunxuan 9)OTERI, Oghenekome 10)YANG, Weidong 11)TANG, Yang 12)CUI, Jie 13)WU, Zhibin 14)HU, Haijing
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/CN2020/074902	
Filing Date	:12/02/2020	
(87) International Publication No	:WO 2021/159317	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and apparatus of a device that determines a physical downlink shared channel scheduling resource for a user equipment device and a base station is described. In an exemplary embodiment, the device selects a plurality of component carriers from a pool of available component carriers associated with a wireless link established between the user equipment device and the base station. In addition, the device selects a virtual component carrier from the plurality of component carriers. Furthermore, the device determines a physical downlink shared channel scheduling resource based on at least the virtual component carrier.

No. of Pages : 29 No. of Claims : 20

(54) Title of the invention : LED LAMP WITH MOLDED HOUSING/HEATSINK

(51) International classification :F21V 29/502, F21V 19/00
 (31) Priority Document No :2020106318
 (32) Priority Date :11/02/2020
 (33) Name of priority country :Russia
 (86) International Application No :PCT/RU2020/000741
 Filing Date :22/12/2020
 (87) International Publication No :WO 2021/162579
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)SOKOLOV, Yuriy BorisovichAddress of Applicant :ul. Tsentralnaya, 10A-55 Fryazino
Moskovskaya oblast, 141195 Russia

(72)Name of Inventor :

1)SOKOLOV, Yuriy Borisovich

(57) Abstract :

The utility model relates to lighting technology, and more particularly to LED lamps powered directly from an ac mains supply. The technical result is a simplified structure, improved heat dissipation, and less labour intensive manufacture of powerful general-purpose lamps that are resistant to external factors IP65 and have a minimal production cost and labour requirement. The claimed lamp comprises a housing/ heatsink in the form of a hollow cylindrical body made of an optically transparent material; a single flexible aluminium printed circuit board having LEDs and a driver mounted on its mounting surface; and end caps, at least one of which is equipped with a means for connection to an electrical energy mains, wherein the flexible printed circuit board is configured in the form of a cylinder with the mounting surface on the outside; the part of the circuit board containing the driver is bent inside the cylinder, and the LEDs and the mounting surface of the configured printed circuit board are incorporated in the body of the transparent part of the housing/ heatsink, forming an integral unit.

No. of Pages : 7 No. of Claims : 6

(54) Title of the invention : WINDMILL EQUIPMENT AND WINDMILL BLADE

(51) International classification	:F03D 3/06, B63B 35/00, B63B 35/44, F03D 7/04, F03D 13/25	(71)Name of Applicant : 1)OKYA INC. Address of Applicant :2-1-8-D, Muramatsu-kita, Tokai-mura, Naka-gun Ibaraki 3191108 Japan
(31) Priority Document No	:2020-018600	(72)Name of Inventor :
(32) Priority Date	:06/02/2020	1)KANNO Masaru
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2021/003413	
Filing Date	:29/01/2021	
(87) International Publication No	:WO 2021/157498	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] In windmill equipment installed on a floating structure, to stabilize the angle between the wind direction and the rotational shaft of a windmill without being affected by rocking of the floating structure and the windmill equipment due to disturbances such as waves. [Solution] In windmill equipment installed on a floating structure, a windmill is of a type in which a blade or a wind receiving body rotates around the rotational shaft of the windmill by receiving wind from a direction intersecting the rotational shaft, the equipment having the function of adjusting the orientation of the floating structure such that the rotational shaft of the windmill is supported horizontally and arranged so as to intersect the wind direction.

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : POLARIZATION AND TURBULENT WATER IONIZER INTENDED FOR WHITE AND SANITARY CONVENIENCES

(51) International classification	:C02F 1/461
(31) Priority Document No	:PP 4-2020
(32) Priority Date	:21/01/2020
(33) Name of priority country	:Slovakia
(86) International Application No	:PCT/EP2021/050700
Filing Date	:14/01/2021
(87) International Publication No	:WO 2021/148305
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)SWISS AQUA TECHNOLOGIES AG

Address of Applicant :Gewerbestrasse 9, Cham, 6330, Switzerland. Switzerland

(72)Name of Inventor :

1)PANCURÁK, Frantisek

(57) Abstract :

The polarization and turbulent water ionizer intended for white and sanitary conveniences comprising a hollow body with a system of through-flow openings for inlet and outlet of water fitted with systems of electrodes arranged inside in an alternating manner, made of differently conductive materials and stabilized within spacers is further resolved in a manner where the cylindrical or flat electrodes (1) of the anode and of the electrodes (2) of the cathode have turbulent openings (3) and/or deflected turbulent fans (4), where the hollow body (5) is fitted with a shield (6) protecting against electromagnetic field. In one embodiment the axes of the cylindrical electrodes (1) of the anode and of the electrodes (2) of the cathode are arranged inside the hollow body (5) and oriented perpendicularly to the through-flow openings (7). In the other case, the axes of the flat electrodes (1) of the anode and of the electrodes (2) of the cathode are arranged inside the hollow body (5) and oriented axially with reference to the through-flow openings (7). The shield (6) protecting against electromagnetic field applied on the inner side of the hollow body (5) refers to a metallic grid/gauze and/or a metallic plate.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046275 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHODS AND KIT FOR DETECTION OF ANALYTES

(51) International classification	:C12N 5/0787, C07K 14/735, C07K 19/00, G01N 33/53	(71)Name of Applicant : 1)ALLEN, Randy Leiman Address of Applicant :7129 Meadow Gate Dr. Apex, NC 27502 U.S.A.
(31) Priority Document No	:62/968648	(72)Name of Inventor : 1)Randy Leiman Allen
(32) Priority Date	:31/01/2020	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2021/025279	
Filing Date	:31/03/2021	
(87) International Publication No	:WO 2021/159128	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides for a kit and methods that detect certain analytes of interest potentially present in blood and bodily fluids of a living mammal. The methods and kit encompass a bioassay performed in vivo. Contact of the bioassay reagent with the analyte, if present, renders a response that can be clinically assessed visually or by reading instrumentation or by biosensor. In one embodiment, the invention may be used to detect the presence, absence, or amount of suspected analyte present in a patient test subject. The invention is particularly suited for point-of- care (POC) use, self-testing, large-scale implementation and for use with patients where limited sample volumes are available or accessible.

No. of Pages : 49 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046276 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : WIRELESS VEHICLE MANAGEMENT SYSTEM

(51) International classification	:G08G 1/01, B61L 15/00, B61L 23/34, B61L 25/02, B61L 25/04	(71)Name of Applicant : 1)ARUP VENTURES LIMITED Address of Applicant :13 Fitzroy Street London, Greater London W1T 4BQ U.K.
(31) Priority Document No	:17/107735	(72)Name of Inventor :
(32) Priority Date	:30/11/2020	1)GARMSON, Kenneth
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IB2021/060731	
Filing Date	:19/11/2021	
(87) International Publication No	:WO 2022/112909	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A transportation system is provided. The system includes: a highway vehicle, a first set of highway points located along a path of the vehicle, a second set of highway points located along a traffic signal section, at least one RFID tag located at each of the first set and the second set of highway points, and at least one RFID tag reader located on the highway vehicle connected to a network. The at least one RFID tag located at the first set of highway points is configured to store dynamic and static characteristics of the highway vehicle as it passes the first set of highway points and the at least one RFID tag located at the second set of highway points is configured to store dynamic and static characteristics of the vehicle as it passes the second set of highway points.

No. of Pages : 19 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046285 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ARTIFICIAL DIELECTRIC MATERIAL AND FOCUSING LENSES MADE OF IT

(51) International classification	:H01Q 15/04, H01Q 15/02, H01Q 19/06, H01Q 19/09, H01Q 1/38
(31) Priority Document No	:760969
(32) Priority Date	:17/01/2020
(33) Name of priority country	:New Zealand
(86) International Application No	:PCT/NZ2021/050003
Filing Date	:15/01/2021
(87) International Publication No	:WO 2021/145780
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)VASANT LIMITED

Address of Applicant :23 Ordley Grove, Tawa Wellington, 5028 New Zealand

(72)Name of Inventor :

1)SLEDKOV, Victor Aleksandrovich

(57) Abstract :

Provided herein is an artificial dielectric material comprising a plurality of sheets of a dielectric material and a plurality of conductive elements disposed in holes made in the sheets of the dielectric material, wherein each conductive element is a three-dimensional object consisting of side plates connected to a central support and disposed to form conductive surfaces surrounding an empty space. Also provided are conductive elements and focusing lenses comprising the artificial dielectric materials and conductive elements along with methods for manufacture of such materials and method for their use. The artificial dielectric materials, lenses and their manufacture may provide desirable dielectric and radio wave focusing properties compared with known materials and manufacturing advantages.

No. of Pages : 23 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046315 A

(19) INDIA

(22) Date of filing of Application :15/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : PEPTIDE INHIBITORS OF INTERLEUKIN-23 RECEPTOR AND THEIR USE TO TREAT INFLAMMATORY DISEASES

(51) International classification	:C07K 7/08, C07K 7/04, C07K 7/02	(71)Name of Applicant : 1)JANSSEN BIOTECH, INC. Address of Applicant :800/850 Ridgeview Drive Horsham, Pennsylvania 19044 U.S.A.
(31) Priority Document No	:62/961624	2)PROTAGONIST THERAPEUTICS, INC.
(32) Priority Date	:15/01/2020	(72)Name of Inventor :
(33) Name of priority country	:U.S.A.	1)SUN, Chengzao
(86) International Application No	:PCT/US2021/013463	2)FREDERICK, Brian Troy
Filing Date	:14/01/2021	3)SOMANI, Sandeep
(87) International Publication No	:WO 2021/146441	4)BOURNE, Gregory Thomas
(61) Patent of Addition to Application Number	:NA	5)PATCH, Raymond
Filing Date	:NA	6)BHANDARI, Ashok
(62) Divisional to Application Number	:NA	7)INGENITO, Raffaele
Filing Date	:NA	8)COSTANTE, Roberto
		9)BRANCA, Danila
		10)BIANCHI, Elisabetta

(57) Abstract :

The present invention provides novel peptide inhibitors of the interleukin-23 receptor, and related compositions and methods of using these peptide inhibitors to treat or prevent a variety of diseases and disorders, including inflammatory bowel diseases.

No. of Pages : 224 No. of Claims : 169

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046327 A

(19) INDIA

(22) Date of filing of Application :15/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : REAGENTS AND THEIR USE FOR MODULAR ENANTIODIVERGENT SYNTHESIS OF C-P BONDS

(51) International classification :C07F 9/02, C07F 9/6564, C07F 9/6578
(31) Priority Document No :62/962066
(32) Priority Date :16/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/013391
Filing Date :14/01/2021
(87) International Publication No :WO 2021/146391
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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3)KNOUSE, Kyle W.

4)PADIAL, Natalia M.

5)ZHENG, Bin

6)VANTOUROUT, Julien C.

7)SCHMIDT, Michael A.

8)EASTGATE, Martin D.

9)BARAN, Phil S.

(57) Abstract :

The disclosure describes chiral P(V)-based reagents and their uses for the modular, scalable, and stereospecific synthesis of chiral phosphines, phosphine oxides and particular oligonucleotides.

No. of Pages : 139 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046345 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTI-AV β 8 INTEGRIN ANTIBODIES FOR USE IN TREATING KIDNEY DISEASE

(51) International classification :A61P 13/12, C07K 16/28, A61K 39/00
(31) Priority Document No :62/966258
(32) Priority Date :27/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2021/051753
Filing Date :26/01/2021
(87) International Publication No :WO 2021/151889
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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1)BAKER, David, James
2)HEASMAN, Stephanie, Claire
3)HERRERA, Maria, Marcela
4)LIARTE MARIN, Elena
5)MORENO-QUINN, Carol, Patricia
6)MURRAY, Lynne, Anne
7)TSUI, Ping
8)WU, Yanli

(57) Abstract :

Provided are methods and compositions for treating kidney disease, such as chronic kidney disease (CKD), in which the methods and compositions comprise antibodies or an antigen binding fragment thereof that specifically and selectively bind to human av β 8 integrin, which was discovered, as described, to be highly expressed on kidney cells and tissue, and, in particular, diseased or fibrotic kidney tissue. The disclosed anti-av β 8 integrin antibodies bind to human av β 8 integrin in the kidney and block the activation of TGF- β from its latent form in kidney tissue. The anti-av β 8 antibodies in the disclosed methods reduce, attenuate, or abrogate kidney fibrosis, which is associated with the activities of av β 8 integrin and TGF- β in kidney tissue. The disclosed antibodies and methods effectively treat kidney disease, in particular, fibrosis associated with kidney disease, such as CKD, in individuals in need thereof.

No. of Pages : 83 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044850 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : MATTRESSES, METHODS OF MANUFACTURE AND COMPONENTS

(51) International classification	:A47C 27/00, A47C 27/045, A47C 27/05, A47C 31/10, A47G 9/02
(31) Priority Document No	:62/978288
(32) Priority Date	:18/02/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/018575
Filing Date	:18/02/2021
(87) International Publication No	:WO 2021/168112
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ASHLEY FURNITURE INDUSTRIES, LLC

Address of Applicant :One Ashley Way ARCADIA, Wisconsin 54612 U.S.A.

(72)Name of Inventor :

1)WAGNER, Travis

(57) Abstract :

Mattress coverings are manufactured utilizing conventional equipment and using a dummy mattress core. The mattress coverings include a zippered access on the bottom panel, for example, where the dummy core can be removed after the mattress covering is completed. When shipped to a regional assembly facility the zippered access is utilized for insertion of a select mattress core that corresponds to the size of the dummy mattress core about which the mattress covering was assembled. The zippered access is zipped shut and the mattress is ready for sale, transport, and use. Great efficiencies are available where the mattress cover is assembled in a first location, shipped to a sale and use location and also regionally close to where mattress cores are manufactured, and the mattress covers are assembled with cores into mattresses.

No. of Pages : 17 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044851 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTIBODIES THAT BIND INTEGRIN AVB8 AND USES THEREOF

(51) International classification :C07K 16/28, A61K
39/395, A61P 35/00
(31) Priority Document No :62/961625
(32) Priority Date :15/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/013720
Filing Date :15/01/2021
(87) International Publication No :WO 2021/146614
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)NISHIMURA, Stephen L.

2)CORMIER, Anthony

3)ITO, Saburo

4)LOU, Jianlong

5)MARKS, James D.

6)CHENG, Yifan

7)CAMPBELL, Melody G.

8)BARON, Jody L.

(57) Abstract :

Antibodies that bind to a β 8 are provided.

No. of Pages : 44 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044852 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : LAMP FOR PHOTOCHEMICAL REACTOR WITH LIGHT-EMITTING DIODES

(51) International classification	:H01L 33/64, H01L 25/075
(31) Priority Document No	:FR2001693
(32) Priority Date	:20/02/2020
(33) Name of priority country	:France
(86) International Application No	:PCT/FR2021/050309
Filing Date	:22/02/2021
(87) International Publication No	:WO 2021/165627
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)AUBERT, Thierry

2)LE BEC, Rémi

3)DELGADO, Fernand

(57) Abstract :

The invention relates to a lamp (1) for a photochemical reactor, comprising: - a support member (2) made of a material having a thermal conductivity greater than or equal to 100 W/mK at 20°C and comprising at least one channel configured to contain a coolant fluid; - at least one printed circuit (3) mounted on the support member; and - at least one light-emitting diode (4) mounted on the printed circuit (3). The invention also relates to a photochemical reactor comprising such a lamp (1), and to a method for preparing a cycloalkanone oxime or a lactam using such a lamp (1).

No. of Pages : 19 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044853 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SPRAY UNIT

(51) International classification :A01M 7/00

(31) Priority Document No :20155549.7

(32) Priority Date :05/02/2020

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2021/051914

Filing Date :28/01/2021

(87) International Publication No :WO 2021/156125

(61) Patent of Addition to Application

Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

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Leverkusen. Germany

(72)Name of Inventor :

1)FAERS, Malcolm

2)CHAPPLE, Andrew, Charles

3)MAYER, Walter

(57) Abstract :

The invention relates to a spray unit comprising an axle (10), a disc (20), a liquid applicator (40) and a spray direction assembly (50). The disc is configured to spin about the axle centred on the centre of the disc. The liquid applicator is configured to apply liquid to a surface of the disc. The spray direction assembly partially surrounds the disc. The inner surface of the spray direction assembly is configured to modify the trajectory of all liquid that leaves the outer edge of the disc.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044854 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : NON-RIGID STEREO VISION CAMERA SYSTEM

(51) International classification :H04N 13/02

(31) Priority Document No :62/964148

(32) Priority Date :22/01/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/012294

Filing Date :06/01/2021

(87) International Publication No :WO 2021/150369

(61) Patent of Addition to Application

Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)NODAR INC.

Address of Applicant :117 Huntington Ave. #179062 Boston,
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(72)Name of Inventor :

1)JIANG, Leaf, Alden

2)ROSEN, Philip Bradley

3)SWIERCZYNSKI, Piotr

(57) Abstract :

A long-baseline and long depth-range stereo vision system is provided that is suitable for use in non-rigid assemblies where relative motion between two or more cameras of the system does not degrade estimates of a depth map. The stereo vision system may include a processor that tracks camera parameters as a function of time to rectify images from the cameras even during fast and slow perturbations to camera positions. Factory calibration of the system is not needed, and manual calibration during regular operation is not needed, thus simplifying manufacturing of the system.

No. of Pages : 40 No. of Claims : 39

(54) Title of the invention : APPLICATION OF TRADITIONAL CHINESE MEDICINE COMPOSITION IN PREPARATION OF DRUGS FOR TREATING OR PREVENTING CORONAVIRUS INFECTION

(51) International classification	:A61K 36/8966, A61K 36/708, A61K 36/539, A61K 36/484, A61K 35/413 :202010108894.1	(71)Name of Applicant : 1)JIANGSU KANION PHARMACEUTICAL CO., LTD. Address of Applicant :Jiangning Industrial City, Economic and Technological Development Zone, Lianyungang, Jiangsu 222047 China
(31) Priority Document No	:202010108894.1	(72)Name of Inventor :
(32) Priority Date	:21/02/2020	1)XIAO, Wei
(33) Name of priority country	:China	2)CAO, Liang
(86) International Application No	:PCT/CN2020/136686	3)WANG, Zhenzhong
Filing Date	:16/12/2020	4)ZHANG, Chenfeng
(87) International Publication No	:WO 2021/164399	5)ZHANG, Xinzhuang
(61) Patent of Addition to Application Number	:NA	6)CAO, Zeyu
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WE CLAIM: 1. An application of a traditional Chinese medicine composition in preparing a medicine for treating or preventing coronavirus infection, wherein the traditional Chinese medicine composition is prepared from 5 the following raw materials in parts by weight: 5-15 parts of cornu saigae tataricae or 50-150 parts of goral horns, 10-60 parts of Bulbus Fritillariae Ussuriensis, 15-60 parts of Radix et Rhizoma Rhei, 7-30 parts of radix scutellariae, 7-30 parts of Lapis Chloriti, 10-50 parts of gypsum fibrosum, 5-20 parts of calculus bovis artifactus, and 15-60 parts of radix glycyrrhizae. 10 2. The application according to claim 1, wherein the coronavirus infection comprises infection of COVID-19. 3. The application according to claim 1, wherein the traditional Chinese medicine 15 composition comprises: 8-12 parts of cornu saigae tataricae or 80-120 parts of goral horns, 15-55 parts of Bulbus Fritillariae Ussuriensis, 20-35 parts of Radix et Rhizoma Rhei, 10-18 parts of radix scutellariae, 10-18 parts of Lapis Chloriti, 15-25 parts of gypsum fibrosum, 8-12 parts of calculus bovis artifactus, and 20-35 parts of radix glycyrrhizae. 20 4. The application according to claim 1, wherein the traditional Chinese medicine composition comprises: 9.45 parts of cornu saigae tataricae, 17.25 parts of Bulbus Fritillariae Ussuriensis, 31.5 parts of Radix et Rhizoma Rhei, 15.75 parts of radix scutellariae, 15.75 parts of Lapis Chloriti, 23.62 parts of gypsum fibrosum, 9.45 parts of 25 calculus bovis artifactus, and 31.5 parts of radix glycyrrhizae. 5. The application according to claim 1, wherein the traditional Chinese medicine composition comprises: 94.5 parts of goral horns, 47.25 parts of Bulbus Fritillariae 12 Ussuriensis, 31.5 parts of Radix et Rhizoma Rhei, 15.75 parts of radix scutellariae, 15.75 parts of Lapis Chloriti, 23.62 parts of gypsum fibrosum, 9.45 parts of calculus bovis artifactus, and 31.5 parts of radix glycyrrhizae. 6. The application according to any 5 one of claims 1 to 5, wherein the medicine for treating or preventing coronavirus infection comprises an oral dosage form, an injection administration form or an external administration preparation. 7. The application according to claim 6, wherein the medicine for treating or preventing 10 coronavirus infection comprises a decoction, a tablet, a capsule, a granule, a pill, an injection, a decocted extract, a suspending agent, a dispersing agent, syrup, a suppository, a gel, aerosol, a patch or an oral liquid. 8. The application according to any one of claims 1 to 5, wherein a method for 15 preparing the traditional Chinese medicine composition comprises the following steps: taking and cutting the cornu saigae tataricae or goral horns into threads; hydrolyzing the threads with an alkaline-containing aqueous solution; filtering, and taking and concentrating filtrate; taking and smashing the Lapis Chloriti and gypsum fibrosum; 20 heating and decocting the smashed Lapis Chloriti and gypsum fibrosum in water; filtering, and taking and concentrating filtrate; taking and extracting the calculus bovis artifactus with 70% alcohol; filtering, and concentrating filtrate; decocting a rest of medicines in water; 25 concentrating and centrifuging filtrate; precipitating liquid supernatant with alcohol; standing, taking the liquid supernatant, filtering, and concentrating filtrate; and mixing the concentrated filtrate to obtain the traditional Chinese medicine composition. 13 9. The application according to claim 8, wherein the cornu saigae tataricae or goral horns is cut into threads, the alkaline-containing aqueous solution is used to perform hydrolysis reflux twice, and filtrate obtained twice is concentrated; the Lapis Chloriti and gypsum fibrosum are smashed into crude powder, the crude powder is heated and decocted twice in water, filtering is 5 performed, filtrate obtained twice is combined, and the combined filtrate is concentrated to have a relative density of 1.01 to 1.04 at 75°C to 85°C; reflux and extraction is performed on calculus bovis artifactus with 70% alcohol twice, filtering is performed, filtrate obtained twice is combined, alcohol is recycled under reduced pressure, and the combined filtrate is concentrated to have a 10 relative density of 1.02 to 1.05 at 75°C to 85°C; the rest of medicines are decocted in water twice, and filtered, and filtrate obtained twice is combined, the combined filtrate is concentrated to have a relative density of 1.10 at 85°C, and is centrifuged, liquid supernatant is precipitated by adding alcohol, and is taken and filtrated after standing is performed, alcohol is recycled under reduced pressure, and then filtrate is concentrated 15 to have a relative density of 1.08 at 85°C; and the concentrated filtrate is mixed to obtain the traditional Chinese medicine composition.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044891 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : FLUID PATH CONNECTORS FOR MEDICAL FLUID DELIVERY

(51) International classification :A61M 39/10
(31) Priority Document No :62/979584
(32) Priority Date :21/02/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/018523
Filing Date :18/02/2021
(87) International Publication No :WO 2021/168076
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)SPOHN, Michael

2)COWAN, Kevin

3)SWANTNER, Michael

4)MENEGO, Ian

5)DEDIG, James

6)UBER III, Arthur

7)HAURY, John

8)TUCKER, Barry

9)KENT, Joseph

(57) Abstract :

A fluid path connector for a medical fluid delivery system, the fluid path connector including a first connector element comprising a body, a first lumen, a first flexible leg, and a second flexible leg, and a second connector element comprising a body defining an undercut, a second lumen, a channel defined in the body, and at least one sealing element positioned within the channel, in which the first flexible leg comprises a first flange and the second flexible leg comprises a second flange, and in which, upon engagement of the first connector element with the second connector element, the first flange and the second flange engage with the undercut of the body of the second connector element to prevent disengagement of the first connector element and the second connector element.

No. of Pages : 39 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044906 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMMUNICATION SYSTEM

(51) International classification :H04W 74/08
(31) Priority Document No :2002086.3
(32) Priority Date :14/02/2020
(33) Name of priority country :U.K.
(86) International Application No :PCT/JP2021/004223
Filing Date :05/02/2021
(87) International Publication No :WO 2021/161907
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1088001 Japan
(72)**Name of Inventor :**
1)GRAU, Maxime
2)KHIRALLAH, Chadi
3)CHEN, Yuhua
4)GUPTA, Neeraj

(57) Abstract :

A system is disclosed in which an item of user equipment (UE) obtains a reference signal received power (RSRP) threshold value for transmitting a random access message (MsgA) comprising both a preamble part and a Physical Uplink Shared Channel (PUSCH) transmission part. The UE obtains information identifying at least one respective offset associated with at least one priority level, and determines a type of random access procedure (two-step or legacy random access procedure) to be performed based on an RSRP measured by the UE, the RSRP threshold value, and a priority level associated with the UE.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044907 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GATE SYSTEM, GATE DEVICE, METHOD FOR CONTROLLING SAME, AND PROGRAM

(51) International classification	:E05B 49/00, G06T 7/70, G07C 9/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2020/004497
Filing Date	:06/02/2020
(87) International Publication No	:WO 2021/156996
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo
1088001 Japan
(72)**Name of Inventor :**
1)MURATA Kazuhito

(57) Abstract :

This gate device (10) comprises: an image-capturing unit (102) that captures an image of a person passing along a passage leading up to a gate; an acquisition unit (104) that acquires a detection result from a detection unit provided on a road surface of the passage; and a control unit (106) that controls an image-capturing timing of the image-capturing unit (102) by employing the detection result acquired by the acquisition unit (104).

No. of Pages : 31 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044909 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITION CONTAINING REGORAFENIB AND A STABILIZING AGENT

(51) International classification	:A61K 9/14, A61K 9/20, A61K 9/28, A61K 31/44	(71)Name of Applicant : 1)BAYER AKTIENGESELLSCHAFT Address of Applicant :Kaiser-Wilhelm-Allee 1 51373 Leverkusen Germany
(31) Priority Document No	:20156003.4	(72)Name of Inventor :
(32) Priority Date	:07/02/2020	1)MÜLLER, Martin, Günter
(33) Name of priority country	:EPO	2)HOHEISEL, Werner
(86) International Application No	:PCT/EP2021/052251	
Filing Date	:01/02/2021	
(87) International Publication No	:WO 2021/156172	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an enteric coated pharmaceutical composition comprising a solid dispersion comprising regorafenib and at least one stabilizing agent outside of the solid dispersion, its process of preparation and its use for treating disorders.

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044910 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : FGF-21 CONJUGATE FORMULATIONS

(51) International classification	:A61K 47/60, A61K 38/18, A61K 47/18, A61P 3/00	(71)Name of Applicant : 1)BRISTOL-MYERS SQUIBB COMPANY Address of Applicant :Rt. 206 and Province Line Road Princeton, New Jersey 08543 U.S.A.
(31) Priority Document No	:62/958580	(72)Name of Inventor :
(32) Priority Date	:08/01/2020	1)PALM, Thomas
(33) Name of priority country	:U.S.A.	2)KHOSSRAVI, Mehrnaz
(86) International Application No	:PCT/US2021/012530	3)PATKE, Sanket
Filing Date	:07/01/2021	
(87) International Publication No	:WO 2021/142143	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application provides pharmaceutical formulations comprising PEGylated FGF- 21, e.g., a FGF-21 conjugate, and one or more stabilizers such as the chelator DPTA. The formulations can be can further stabilized by including a surfactant such as polysorbate 80 and/or adjusting the pH to about 7.1. Also provided are methods of manufacture, methods of treatment, and kits.

No. of Pages : 86 No. of Claims : 111

(54) Title of the invention : ORGANIC WASTE SEPARATOR FOR UNDER A SINK

(51) International classification	:E03C 1/22, A47B 77/08, B01D 21/26, B30B 9/14, E03C 1/266
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CA2020/000002
Filing Date	:06/01/2020
(87) International Publication No	:WO 2021/138729
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ANVY TECHNOLOGIES INC.Address of Applicant :#403 - 3614 Richmond Road Victoria,
British Columbia V8P 4R5 Canada

(72)Name of Inventor :

1)NICOLOV, Victor

(57) Abstract :

A waste separator for attachment to a sink drain pipe is provided, the waste separator comprising: a transverse pipe, the transverse pipe including a proximal end, a distal end, a sidewall therebetween, a solid waste outlet at the distal end and a flange on the sidewall, the transverse pipe defining a transverse bore; a motor-driven, non-cutting auger which is housed in the transverse bore; a cylindrical filter around the motor-driven, non-cutting auger; a water collector below the cylindrical filter and terminating in a wastewater outlet; a sink wastewater inlet in a vicinity of the proximal end, the sink wastewater inlet normal to the transverse bore and in fluid communication with the transverse bore; a normally-closed flap valve, the normally- closed flap valve hingedly attached to transverse pipe proximate the distal end; a hinge actuator for the normally-closed flap valve; and a microprocessor, the microprocessor in electronic communication with the hinge actuator.

No. of Pages : 14 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044912 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : THICKNESS MEASUREMENT DEVICE

(51) International classification	:G01B 15/02
(31) Priority Document No	:2020-155796
(32) Priority Date	:16/09/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/016373
Filing Date	:22/04/2021
(87) International Publication No	:WO 2022/059246
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
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**2)TOSHIBA INFRASTRUCTURE SYSTEMS &
SOLUTIONS CORPORATION**
(72)Name of Inventor :
1)DE APOLONIA, Chara

(57) Abstract :

A thickness measurement device according to the embodiment comprises: a radiation source for radiating radiation onto an object under measurement; a detection unit for detecting the radiation; a measurement unit for measuring the thickness of the object under measurement; a self-diagnosis unit for carrying out at least one of a plurality of types of self-diagnosis; a storage unit for storing measurement-related information including the result of the measurement by the measurement unit and the result of the self-diagnosis by the self-diagnosis unit and association information associating each of the plurality of types of self-diagnosis with a type and a period of data to be acquired; an acquisition unit for, when self-diagnosis has been carried out by the self-diagnosis unit, referring to the association information and acquiring, from the measurement-related information stored in the storage unit, the type of data which is associated with the self-diagnosis and is within the associated period; and an aggregation unit for generating file data in which the data acquired by the acquisition unit is aggregated.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044930 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : AN ELECTRONIC DEVICE HAVING A ROLLING DISPLAY COMPRISING MAGNETIC MEANS FOR FLATTENING THE DISPLAY WHEN EXTRACTED

(51) International classification	:H04M 1/02, G06F 1/16
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/EP2020/052453
Filing Date	:31/01/2020
(87) International Publication No	:WO 2021/151506
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MÄKI, Jouni, Tapio
2)MÄKI, Jouni, Tapio

(57) Abstract :

Disclosed herein is an electronic device (1) comprising a chassis module (2) and a rolling display arrangement (3), said rolling display arrangement (3) partially enclosing said chassis module (2) and being configured to slide between a retracted position (P1) and an extended position (P3), wherein the chassis module (2) comprises a body (11) having a rounded edge (4) and a first part (5) of a magnetic pair in at least a mid-section of the body proximal to the rounded edge (4), and the rolling display arrangement (3) comprises a foldable sheet (6) and a support arrangement arranged to support the foldable sheet (6), wherein the rolling display arrangement (3) comprises a second part (9) of a magnetic pair in at least a section opposing the first part (5) of the magnetic pair when the rolling display arrangement (3) is in the retracted position, said first part (5) and second part (9) of the magnetic pair being magnetically attracted to each other. The electronic device (1) reduces or prevents the presence of visual defects due to bending of the rolling display arrangement (3) around the rounded edge (4) of the chassis module (2).

No. of Pages : 9 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044932 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : STEEL SHEET WITH EXCELLENT SURFACE QUALITY, AND MANUFACTURING METHOD THEREFOR

(51) International classification	:C22C 38/38, C21D 8/04, C21D 8/12, C21D 3/04, C23G 1/08	(71)Name of Applicant : 1)POSCO Address of Applicant :(Goedong-dong) 6261, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do 37859 Republic of Korea
(31) Priority Document No	:10-2020-0019925	(72)Name of Inventor :
(32) Priority Date	:18/02/2020	1)PARK, Kyong-Su
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2021/001996	
Filing Date	:17/02/2021	
(87) International Publication No	:WO 2021/167332	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A steel sheet with excellent surface quality, and a manufacturing method therefor are provided. The present invention provides a pickled steel sheet with excellent surface quality, comprising, by wt%, carbon (C) in an amount greater than or equal to 0.05% and less than 0.4%, 0.5% or less of silicon (Si) (excluding 0%), 0.05% or less of phosphorus (P), 0.03% or less of sulfur (S), 0.01% or less of boron (B), 0.1-2.5% of manganese (Mn) and/or chromium (Cr), and the balance of iron (Fe) and inevitable impurities, wherein the average thickness of an inner oxide layer and/or a tantalum layer, which are formed on the surface layer of the steel sheet, is 1-10 μ m, and the standard deviation of the thickness of the inner oxide layer and/or the tantalum layer in the longitudinal direction of the steel sheet is 2 μ m or less.

No. of Pages : 39 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044933 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ELASTIC PIECE CONNECTING STRUCTURE AND ELECTRONIC APPARATUS

(51) International classification :H01Q 1/48
(31) Priority Document No :202121594286.2
(32) Priority Date :13/07/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/089238
Filing Date :26/04/2022
(87) International Publication No :WO 2023/284363
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Address of Applicant :Suite 3401, Unit A, Building 6, Shum Yip Sky Park No. 8089, Hongli West Road, Xiangmihu Street Futian District Shenzhen, Guangdong 518040 China
(72)**Name of Inventor :**
1)TIAN, Ang

(57) Abstract :

Provided in the embodiments of the present application are an elastic piece connecting structure and an electronic apparatus. The elastic piece connecting structure comprises a first connecting end and a second connecting end which are connected to each other, wherein the first connecting end comprises a first contact part which elastically abuts against and is in conduction with a first conductor in the electronic apparatus; the second connecting end is detachably connected to an insulating part in the electronic apparatus; and the second connecting end abuts against and is in conduction with a second conductor in the electronic apparatus. According to the embodiments of the present application, the first conductor and the second conductor in the electronic apparatus are in conduction with each other; additionally, the manufacturing cost of the electronic apparatus is reduced.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044959 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR CATALYTICALLY PRODUCING AN ALKYL FORMATE

(51) International classification	:C07C 67/39, C07C 69/06, C07C 53/02, C07C 51/23	(71)Name of Applicant : 1)OXFA GMBH Address of Applicant :Alte Ziegelei 96110 Scheßlitz Germany
(31) Priority Document No	:20153906.1	(72)Name of Inventor :
(32) Priority Date	:27/01/2020	1)ALBERT, Jakob
(33) Name of priority country	:EPO	2)KUMPIDET, Chiraphat
(86) International Application No	:PCT/EP2021/051717	
Filing Date	:26/01/2021	
(87) International Publication No	:WO 2021/151870	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for catalytically producing an alkyl formate, wherein at least one alpha-hydroxy aldehyde, at least one alpha-hydroxy carboxylic acid, at least one carbohydrate, and/or at least one glycoside is reacted by means of a vanadium-oxygen compound, which contains vanadium in the oxidation stage +IV or +V, or a salt thereof as a catalyst in the solution, wherein the solution contains an alkanol, and the alkyl formate produced as a reaction product is separated from at least one other resulting reaction product. The catalyst which is reduced during the catalytic reaction is restored to its starting state in an oxidation process.

No. of Pages : 15 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046366 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : TUNGSTEN-BASED EROSION-RESISTANT LEADING EDGE PROTECTION CAP FOR ROTOR BLADES

(51) International classification	:F03D 1/06, F03D 80/30
(31) Priority Document No	:16/799939
(32) Priority Date	:25/02/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/018317
Filing Date	:17/02/2021
(87) International Publication No	:WO 2021/173392
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)GENERAL ELECTRIC COMPANY
Address of Applicant :1 River Road Schenectady, New York
12345 U.S.A.
(72)Name of Inventor :
1)MATHEW, Paul
2)KRISHNAMURTHY, Sriram
3)SUBRAMANIAN, Shanmuga Priyan

(57) Abstract :

A rotor blade assembly for a wind turbine includes at least one rotor blade having surfaces defining a pressure side, a suction side, a leading edge, and a trailing edge extending between a blade tip and a blade root. The surfaces are constructed of a polymeric composite material. The rotor blade assembly also includes a protection cap arranged adjacent to one or more of the surfaces of the rotor blade so as to cover at least a portion of the one or more surfaces of the rotor blade. The protection cap includes a body defining an overall length. Further, at least a first segment of the protection cap is constructed of a tungsten-based metal. Thus, the protection cap is configured to reduce erosion and resist corrosion of the rotor blade caused by particle or liquid impact.

No. of Pages : 20 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046368 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : STERILIZABLE POROUS FILTRATION MEDIA CONTAINING NANOFIBER

(51) International classification	:B01D 61/14, B01D 67/00, B01D 69/02, B01D 69/06, B01D 71/56	(71)Name of Applicant : 1)EMD MILLIPORE CORPORATION Address of Applicant :400 Summit Drive Burlington, MA 01803 U.S.A.
(31) Priority Document No	:62/977884	(72)Name of Inventor :
(32) Priority Date	:18/02/2020	1)SATAV, Nitin
(33) Name of priority country	:U.S.A.	2)CUDDY, Martin
(86) International Application No	:PCT/US2021/017211	3)ZHOU, Xiaozhu
Filing Date	:09/02/2021	4)CHATTOPADHYAY, Saptarshi
(87) International Publication No	:WO 2021/167814	5)TRINH, William
(61) Patent of Addition to Application Number	:NA	6)KAS, Onur Y.
Filing Date	:NA	7)NHIEM, David
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are sterilizable porous filtration media and methods of making and using the same.

No. of Pages : 45 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046400 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : CONTROL OF ALUMINUM ALLOY MICROSTRUCTURE FOR IMPROVED CORROSION RESISTANCE AND BONDING PERFORMANCE

(51) International classification	:C22C 21/04, C22C 21/06, C22C 21/08, C22F 1/043, C22F 1/047	(71)Name of Applicant : 1)NOVELIS INC. Address of Applicant :3560 Lenox Road, Suite 2000 Atlanta, Georgia 30326 U.S.A.
(31) Priority Document No	:62/978767	(72)Name of Inventor :
(32) Priority Date	:19/02/2020	1)MACFARLANE, Theresa Elizabeth
(33) Name of priority country	:U.S.A.	2)CUMARANATUNGE, Lasitha
(86) International Application No	:PCT/US2021/018496	3)DAS, Sazol Kumar
Filing Date	:18/02/2021	4)YUAN, Yudie
(87) International Publication No	:WO 2021/168064	5)BECK, Thomas J.
(61) Patent of Addition to Application Number	:NA	6)KAMAT, Rajeev G.
Filing Date	:NA	7)REDMOND, Peter Lloyd
(62) Divisional to Application Number	:NA	8)HUNTER, John Anthony
Filing Date	:NA	9)LI, Liangliang
		10)WAGSTAFF, Samuel Robert
		11)SUNDARAM, Kumar
		12)WAGSTAFF, Robert Bruce

(57) Abstract :

Described are aluminum alloy products that generally have a microstructure and composition that resists corrosion. This corrosion resistance, in turn, allows the aluminum alloy products to exhibit favorable bond durability performance, such as when adhesively bonded to another product. The corrosion resistance can be achieved by controlling the composition of the aluminum alloy, including the presence and/or concentration of certain intermetallic particles, such as α -phase intermetallic particles and β -phase intermetallic particles.

No. of Pages : 34 No. of Claims : 27

(54) Title of the invention : PEPTIDE IMMUNOGENS TARGETING PCSK9 AND FORMULATIONS THEREOF FOR PREVENTION AND TREATMENT OF PCSK9-MEDIATED DISORDERS

(51) International classification :C07K 19/00, C12N 9/64, A61K 39/08, A61P 9/10
 (31) Priority Document No :62/966645
 (32) Priority Date :28/01/2020
 (33) Name of priority country :U.S.A.
 (86) International Application No :PCT/US2021/015423
 Filing Date :28/01/2021
 (87) International Publication No :WO 2021/154947
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)United Biomedical, Inc.

Address of Applicant :House No. 25 ,Street Davids Drive, Hauppauge, City New York ,State Country United States of America, Pin code 11788 U.S.A.

(72)Name of Inventor :

1)WANG, Chang Yi**2)LIN, Feng**

(57) Abstract :

The present disclosure is directed to peptide immunogen constructs targeting the catalytic domain of the PCSK9 protein, compositions containing the constructs, antibodies elicited by the constructs, and methods for making and using the constructs and compositions thereof. The disclosed peptide immunogen constructs have more than about 20 amino acids and contain (a) a B cell epitope having about more than about 7 contiguous amino acid residues from the PCSK9 and LDL-R receptor binding regions of the catalytic domain of the PCSK9 protein; (b) a heterologous Th epitope; and (c) an optional heterologous spacer. The disclosed PCSK9 peptide immunogen constructs stimulate the generation of highly specific antibodies directed to PCSK9 sites that are binding to LDL-R to allow for the prevention and/or treatment of patients with PCSK9 mediated disorders including an increased serum level of low-density lipoprotein cholesterol (LDL-C) and CV events.

No. of Pages : 59 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046402 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SLACK SEPARATION APPARATUS AND METHOD

(51) International classification	:B07B 1/04, B07B 13/16
(31) Priority Document No	:2002391.7
(32) Priority Date	:20/02/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2021/050390
Filing Date	:18/02/2021
(87) International Publication No	:WO 2021/165673
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)ISHIDA EUROPE LIMITED
Address of Applicant :11 Kettles Wood Drive, Woodgate
Business Park Birmingham West Midlands B32 3DB U.K.
(72)**Name of Inventor :**
1)VINE, Lee

(57) Abstract :

There are provided hoppers (30) for separating slack from a mixture of product and slack, and systems and method using such hoppers. Each hopper comprises: an internal gate (32) configured to prevent the passage of product therethrough, but to allow the passage of slack therethrough; and, an external gate (34) configured to prevent the passage of product and the passage of slack therethrough; the internal gate and the external gate being moveable between respective open and closed positions; the hopper configured such that: when the internal gate and external gate are in their respective closed positions and the mixture is introduced into the hopper, product is retained by the internal gate whilst slack passes through the internal gate and is retained by the external gate; and, when the external gate and internal gate are each in their respective open positions, product may exit the hopper along a first path.

No. of Pages : 37 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046131 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ALPHA-HYDROXYLATED FATTY-ACID METABOLITES, MEDICAL USES OF SAME AND USE AS BIOMARKERS

(51) International classification	:C07C 59/40, C07C 59/42, A61K 31/201, A61K 31/202, A61P 35/00	(71)Name of Applicant : 1)UNIVERSITAT DE LES ILLES BALEARS Address of Applicant :Ctra.Valldemossa, KM 7,5 07122 Palma de Mallorca Spain
(31) Priority Document No	:P202030070	(72)Name of Inventor :
(32) Priority Date	:29/01/2020	1)ESCRIBÁ RUIZ, Pablo Vicente
(33) Name of priority country	:Spain	2)TORRES CANALEJO, Manuel
(86) International Application No	:PCT/ES2021/070068	3)BUSQUETS XAUBET, Xavier
Filing Date	:28/01/2021	4)LLADÓ CAÑELLAS, Victoria
(87) International Publication No	:WO 2021/152201	5)FERNÁNDEZ GARCÍA, Paula
(61) Patent of Addition to Application Number	:NA	6)ROSSELLÓ CASTILLO, Catalina Ana
Filing Date	:NA	7)PARETS BARRIOS, Sebastià
(62) Divisional to Application Number	:NA	8)BETETA GOBEL, Roberto
Filing Date	:NA	9)CANO URREGO, Emilce
		10)ARBONA GONZÁLEZ, Laura
		11)RODRÍGUEZ LORCA, Raquel
		12)CABOT BAUZÁ, Juan
		13)MILLARES PIZÀ, Marc

(57) Abstract :

Described are fatty acids with one or more unsaturations, having an odd hydrocarbon chain, the fatty acids having the chemical structure of the therapeutically active metabolites of even-chain mono- or polyunsaturated alpha-hydroxylated fatty acids. Also described are compositions comprising said fatty acids, medical uses thereof, and the use thereof as indicators of the efficacy of and/or response to the treatment of a patient with the even-chain mono- or polyunsaturated alpha-hydroxylated fatty acids from which they are derived.

No. of Pages : 67 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046132 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : APPARATUS AND METHODS OF ANCILLARY SPECTACLE KIT SOLUTION FOR MYOPIA MANAGEMENT

(51) International classification	:G02C 7/08
(31) Priority Document No	:2020900413
(32) Priority Date	:14/02/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050098
Filing Date	:06/02/2021
(87) International Publication No	:WO 2021/159168
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)BAKARAJU, Ravi Chandra

(57) Abstract :

The present disclosure relates to means of managing eye-length disorders, like myopia. The invention includes an apparatus and methods for the prescription, selection, supply and fitting of sets, stocks, or kits of pairs of myopia management spectacles, or spectacle fronts, attachable impermanent auxiliary optical films, or mini optical elements, used in conjunction with standard single vision spectacles, said auxiliary optical films, or optical elements possess one or more meridionally and azimuthally variant power distributions resulting in a delta power and said power distributions are devoid of mirror symmetry, wherein the apparatus and methods are configured to provide a conoid of partial blur, or at least one regional conoid of partial blur, at the retina of the myopic eye to decelerate, ameliorate, control, inhibit, or reduce the rate of myopia progression over time, wherein the method is a prescribed care regimen providing temporal and spatial variation to the directional optical cues or stop signals.

No. of Pages : 71 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046206 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : MUZZLE BRAKE

(51) International classification :F41A 21/36

(31) Priority Document No :2002337.0

(32) Priority Date :20/02/2020

(33) Name of priority country :U.K.

(86) International Application No :PCT/GB2021/050272

Filing Date :08/02/2021

(87) International Publication No :WO 2021/165642

(61) Patent of Addition to Application

Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)BAE SYSTEMS PLC

Address of Applicant :6 Carlton Gardens London SW1Y 5AD

U.K.

(72)Name of Inventor :

1)LEWIN, Richard, Peter

(57) Abstract :

A muzzle brake (20) for a gun tube (12) defining a bore (40) centred on a longitudinal axis (32). The muzzle brake (20) comprises a top plate (24) and a bottom plate (26). A first wall section (100), a second wall section (200) and a third wall section (300) extend from the top plate (24) to the bottom plate (26). The second wall section (200) extends from the first wall section (100) to a first baffle (220). The third wall section (300) extends from the second wall section (200) to a second baffle (320). The second wall section (200), top plate (24) and bottom plate (26) converge towards the longitudinal axis (32) and the first baffle (220), such that the second wall section (200), top plate (24), bottom plate (26) and first baffle (220) define a first compression cone (224). The third wall section (300), top plate (24) and bottom plate (26) converge towards the longitudinal axis (32) and the second baffle (320) such that the third wall section (300), top plate (24), bottom plate (26) and second baffle (320) defines a second compression cone (324).

No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046208 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : A RODENT MODEL OF B4GALT1-MEDIATED FUNCTIONS

(51) International classification :A01K 67/027, C12N 9/10, G01N 33/48
(31) Priority Document No :62/985045
(32) Priority Date :04/03/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/020579
Filing Date :03/03/2021
(87) International Publication No :WO 2021/178474
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)REGENERON PHARMACEUTICALS, INC.
Address of Applicant :777 Old Saw Mill River Road
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(72)Name of Inventor :
1)GATTA, Giusy Della
2)FANG, Qing
3)SHULDINER, Alan

(57) Abstract :

This disclosure relates to genetically modified animals. More specifically, this disclosure relates to rodent animals in which an endogenous B4galt1 gene has been modified, e.g., to introduce a mutation that encodes an Asn to Ser substitution in the encoded B4galt1 protein at a position corresponding to position 352 in a human B4GALT1 protein, or to introduce a loss of function mutation (e.g., in a select tissue such as the liver). This disclosure also relates to use of such rodent animals in elucidating the role of B4galt1 in lipid metabolism.

No. of Pages : 39 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046210 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : LEAD-FREE AND ANTIMONY-FREE SOLDER ALLOY, SOLDER BALL, AND SOLDER JOINT

(51) International classification :C22C 13/00, B23K 35/26
(31) Priority Document No :2020-023276
(32) Priority Date :14/02/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2021/004570
Filing Date :08/02/2021
(87) International Publication No :WO 2021/161953
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SENJU METAL INDUSTRY CO., LTD.
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Tokyo 1208555 Japan
(72)Name of Inventor :
1)IJIMA Yuuki
2)YOSHIKAWA Shunsaku
3)SAITO Takashi
4)DEI Kanta
5)MATSUFUJI Takahiro

(57) Abstract :

Provided are a lead-free and antimony-free solder alloy, a solder ball, and a solder joint capable of suppressing fusion failure as a result of having improved shear strength, which is attributed to the refinement of crystal grains at junction interfaces. This lead-free and antimony-free solder alloy has an alloy composition comprising, in terms of mass percentage, 0.1-4.5% of Ag, 0.20-0.85% of Cu, 0.005-0.090% of Ni, and 0.0005-0.0090% of Ge, the balance being Sn. The alloy composition satisfies formulas (1) and (2). (1): $0.006 = (Ag + Cu + Ni) \times Ge$ 0.023 (2): $(Sn/Cu) \times (Ni \times Ge) / (Ni + Ge)$ 0.89 In the formulas (1) and (2), Ag, Cu, Ni, Ge, and Sn represent respective contents in the alloy composition (mass%).

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046405 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : DATA TRANSMISSION METHOD, SENDING DEVICE, AND STORAGE MEDIUM

(51) International classification :H04W 72/04, H04W 36/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/084063
Filing Date :09/04/2020
(87) International Publication No :WO 2021/203391
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address of Applicant :No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860 China
(72)Name of Inventor :
1)FU, Zhe
2)LU, Qianxi

(57) Abstract :

Disclosed in the present application is a data transmission method, comprising: when a replication transmission state is deactivated, if a first condition is satisfied, a sending device transmits data on the basis of a separation transmission mode, or the sending device delivers the data to a main path or a separation auxiliary path. Also disclosed in the present application are another data transmission method, a sending device, and a storage medium.

No. of Pages : 43 No. of Claims : 19

(54) Title of the invention : INSERT SINTERED PART AND MANUFACTURING METHOD FOR SAME

(51) International classification :B22F 5/00, B22F 7/08, B29C 45/14, B29C 45/26, F16C 33/12

(31) Priority Document No :2020-014473

(32) Priority Date :31/01/2020

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2021/002402

Filing Date :25/01/2021

(87) International Publication No :WO 2021/153488

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)DIAMET CORPORATION

Address of Applicant :3-1-1, Kogane-cho, Higashi-ku, Niigata-shi, Niigata 9508640 Japan

(72)Name of Inventor :

1)TAKEZOE, Shinichi**2)MARUYAMA, Tsuneo****3)SAKAI, Hideo**

(57) Abstract :

The present invention includes: using a forming mold that includes a fixed mold and a movable mold that moves along a parting surface with respect to the fixed mold; moving the movable mold along the parting surface, thereby pressing and holding a sintered part between the movable mold and the fixed mold; forming a cavity, using the forming mold, around a region excluding portions of the sintered part that contacts the fixed mold and the movable mold; filling the cavity with a molten material that becomes an exterior part; and integrating the sintered part and the exterior part by insert molding.

No. of Pages : 23 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046418 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HIGH STRENGTH COLD ROLLED AND GALVANNEALED STEEL SHEET AND MANUFACTURING PROCESS THEREOF

(51) International classification	:C21D 8/02, C21D 9/46, C22C 38/02, C22C 38/22, C22C 38/26	(71)Name of Applicant : 1)ARCELORMITTAL Address of Applicant :24-26, Boulevard d'Avranches L-1160 Luxembourg Luxembourg
(31) Priority Document No	:PCT/IB2020/051750	(72)Name of Inventor :
(32) Priority Date	:02/03/2020	1)INACIO DA ROSA, Gregory
(33) Name of priority country	:PCT	2)ZHAO, Lijia
(86) International Application No	:PCT/IB2021/050994	3)FAN, Dongwei
Filing Date	:08/02/2021	4)DRILLET, Josée
(87) International Publication No	:WO 2021/176285	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention deals with a cold rolled and galvanized steel sheet having a composition comprising, by weight percent: C 0.15-0.25%, Mn 2.4-3.5%, Si 0.30-0.90%, Cr 0.30-0.70%, Mo 0.05-0.35%, Al 0.001-0.09%, Ti 0.01-0.06, B 0.0010-0.0040%, Nb 0.01 - 0.05%, P=0.020%, S=0.010% and N=0.008%, the remainder of the composition being iron and unavoidable impurities resulting from the smelting, and having a microstructure consisting of, in surface fraction, between 80% and 90% of martensite, the balance being ferrite and bainite.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046421 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : DISTRIBUTION CHAMBER FOR LIQUID STREAM

(51) International classification	:B01D 1/00, B01D 1/06, B01J 19/00, B01J 19/24, C07C 273/00	(71)Name of Applicant : 1)YARA INTERNATIONAL ASA Address of Applicant :Drammensveien 131 0277 Oslo Norway
(31) Priority Document No	:20159321.7	(72)Name of Inventor :
(32) Priority Date	:25/02/2020	1)PORRO, Lino, Giovanni
(33) Name of priority country	:EPO	2)SERRAIOCCO, Luigi
(86) International Application No	:PCT/EP2021/054662	
Filing Date	:25/02/2021	
(87) International Publication No	:WO 2021/170709	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This present invention relates to the field of urea synthesis, in particular it discloses a distribution chamber suitable for distributing a liquid stream to a plurality of pipe openings distributed over a planar surface. The distribution chamber comprises three perforated plates. The present invention also provides a method to distribute a liquid stream to a plurality of pipe openings, a method to decompose ammonium carbamate from an aqueous solution comprising ammonium carbamate and a method to produce a concentrated aqueous urea solution from a diluted aqueous urea solution.

No. of Pages : 22 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046422 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ORAL PEPTIDE ADMINISTRATION

(51) International classification	:A61K 38/28, A61K 47/69, A61P 3/10
(31) Priority Document No	:2020900129
(32) Priority Date	:17/01/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050027
Filing Date	:18/01/2021
(87) International Publication No	:WO 2021/142516
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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2)SYDNEY LOCAL HEALTH DISTRICT

(72)Name of Inventor :

1)COGGER, Victoria Carroll

2)LE COUTEUR, David George

3)HUNT, Nicholas

(57) Abstract :

The present invention relates to compositions and methods facilitating the non-invasive administration (such as oral administration) of therapeutic proteins or peptides (such as insulin) which maintain biological activity when absorbed. The composition of the present invention comprises a therapeutic amount of a conjugate, wherein the conjugate comprises a quantum dot and a therapeutically effective peptide or protein.

No. of Pages : 34 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046423 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GENETICALLY MODIFIED YEAST FOR THE PRODUCTION OF CANNABIGEROLIC ACID, CANNABICHROMENIC ACID AND RELATED CANNABINOIDS

(51) International classification	:C12N 15/52, C12N 9/10, C12N 9/12
(31) Priority Document No	:62/963448
(32) Priority Date	:20/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/014226
Filing Date	:20/01/2021
(87) International Publication No	:WO 2021/150636
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)BAYMEDICA, INC.

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1)BARR, Philip J.

2)SUN, Jianping

3)KEALEY, James T.

4)MARLOWE, Charles

5)CRAIG, James P.

6)JOHNSON, Colin W.

(57) Abstract :

The present invention relates generally to production methods, enzymes and recombinant yeast strains for the biosynthesis of clinically important cannabinoid compounds.

No. of Pages : 47 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046443 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GREASE GUN

(51) International classification	:F16N 3/12, F16N 13/08
(31) Priority Document No	:62/962697
(32) Priority Date	:17/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/AU2020/051372
Filing Date	:15/12/2020
(87) International Publication No	:WO 2021/142508
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Address of Applicant :41-49 Henderson Street Turrella, New South Wales 2205 Australia
(72)**Name of Inventor :**
1)UCCELLANI, Marco
2)SINGH, Prabhjot

(57) Abstract :

A grease gun comprising a body having first and second chambers, first and second pistons within those first and second chambers, primary and secondary grease channels, a grease outlet and an actuator, is provided. Actuation of the actuator by a user causes first and second pistons to move within first and second chambers. The body may further comprise a pressure sensitive spool which allows the grease gun to move from a high flow/low pressure operation to a high pressure/low flow operation when there is a grease blockage that causes an increase in the pressure in the body.

No. of Pages : 20 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046453 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GUIDEWIRE-MANAGEMENT DEVICES AND METHODS THEREOF

(51) International classification :A61M 25/09

(31) Priority Document No :62/989371

(32) Priority Date :13/03/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/022208

Filing Date :12/03/2021

(87) International Publication No :WO 2021/183952

(61) Patent of Addition to Application

Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)BARD ACCESS SYSTEMS, INC.

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UT 84116 U.S.A.

(72)Name of Inventor :

1)HOWELL, Glade H.

2)LLOYD, Kevin

3)STATS, Jason R.

(57) Abstract :

Guidewire-management devices and systems thereof are disclosed herein. A guidewire- management device can include a guidewire, a first sleeve, and a second sleeve. The first sleeve can be configured for distally feeding the guidewire out of the guidewire-management device. The first sleeve can also be configured for proximally feeding the guidewire into the guidewire- management device. The second sleeve can be proximal of the first sleeve in the guidewire- management device. The second sleeve can be configured for feeding the guidewire in concert with the first sleeve. At least a length of the guidewire extending between the first sleeve and the second sleeve can be disposed within a sterile barrier configured to maintain sterility of the guidewire.

No. of Pages : 22 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046456 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : IMEI RETRIEVAL AND IMEI CHANGE NOTIFICATION IN 5GC-EPC INTERWORKING SCENARIOS

(51) International classification	:H04L 29/06, H04L 29/08, H04W 8/04
(31) Priority Document No	:20382100.4
(32) Priority Date	:13/02/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/052206
Filing Date	:29/01/2021
(87) International Publication No	:WO 2021/160446
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
Address of Applicant :164 83 Stockholm Sweden

(72)Name of Inventor :
1)MERINO VAZQUEZ, Emiliano
2)MAROTO GIL, Beatriz
3)CASTELLANOS ZAMORA, David
4)DE GREGORIO RODRIGUEZ, Jesus Angel

(57) Abstract :

According to an aspect, there is provided a method of operating a first network node (420; 430; 520; 530; 620; 630; 730; 740) in a first core network of a telecommunication network. The first network node (420; 430; 520; 530; 620; 630; 730; 740) is for managing data relating to subscribers of the first core network, and the telecommunication network further comprises a second core network having a second network node (420; 430; 520; 530; 620; 630; 730; 740) that is for managing data relating to subscribers of the second core network. The method comprises, after a first wireless device identifier for a first subscriber of the first core network and the second core network is changed to a second wireless device identifier, sending (1101) a first message to the second network node (420; 430; 520; 530; 620; 630; 730; 740) indicating the second wireless device identifier for the first subscriber.

No. of Pages : 31 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046461 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ELECTRONIC DEVICE AND METHOD FOR SUPPORTING HETEROGENEOUS COMMUNICATION TECHNIQUES SHARING FREQUENCY BAND

(51) International classification :H04W 72/12, H04W 16/14, H04W 88/06
(31) Priority Document No :10-2020-0052857
(32) Priority Date :29/04/2020
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2021/003005
Filing Date :11/03/2021
(87) International Publication No :WO 2021/221305
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAMSUNG ELECTRONICS CO., LTD.

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Suwon-si, Gyeonggi-do 16677 Republic of Korea

(72)Name of Inventor :

1)YANG, Yi

2)KANG, Moonseok

3)MIN, Hyunkee

4)CHO, Moongee

5)KIM, Geonwoo

6)HONG, Sukgi

(57) Abstract :

An electronic device is provided. The electronic device includes an antenna to transmit or receive a signal of a specific frequency band, a wireless local area network (WLAN) communication module, and an ultra-wide band (UWB) communication module, wherein the UWB communication module may be configured to transmit a first signal notifying that the specific frequency band is to be used to the WLAN communication module, and use the specific frequency band, wherein the WLAN communication module may be configured to terminate, in case that the specific frequency band is being used, a use of the specific frequency band within a preset time in response to reception of the first signal, and transmit, when the use of the specific frequency band is terminated, a second signal indicating whether the specific frequency band is used by the WLAN communication module to the UWB communication module.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046463 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : DYNAMIC TRANSPARENT RECONFIGURATION OF A MULTI-TENANT GRAPHICS PROCESSING UNIT

(51) International classification	:G06T 1/20, G06T 15/00, G06T 1/60, G06F 9/48, G06F 9/445	(71)Name of Applicant : 1)ADVANCED MICRO DEVICES, INC. Address of Applicant :2485 Augustine Drive Santa Clara, CA 95054 U.S.A.
(31) Priority Document No	:16/804345	(72)Name of Inventor :
(32) Priority Date	:28/02/2020	1)MCCRARY, Rex Eldon
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2021/019855	
Filing Date	:26/02/2021	
(87) International Publication No	:WO 2021/173959	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A processing unit (105) includes shader engines (140, 141, 142, 143) and front end (FE) circuits (150, 151). Subsets of the FE circuits are configured to schedule commands for execution on corresponding subsets of the shader engines. The processing unit also includes a set of physical paths (330, 310-317, 340) configured to convey information from the FE circuits to a memory via the shader engines. Subsets of the physical paths are allocated to the subsets of the FE circuits and the corresponding subsets of the shader engines. The processing unit further includes a scheduler (680) configured to receive a reconfiguration request and modify the set of physical paths based on the reconfiguration request. In some cases, the reconfiguration request is provided by a central processing unit (CPU) (605) that requests the modification based on characteristics of applications (620) generating the commands.

No. of Pages : 20 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046466 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMPOSITIONS FOR REDUCING OFF TASTES AND USES THEREOF

(51) International classification :A23L 27/00, A61K 8/49, A61Q 11/00
(31) Priority Document No :63/034095
(32) Priority Date :03/06/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2021/064266
Filing Date :27/05/2021
(87) International Publication No :WO 2021/244953
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)FIRMENICH SA

Address of Applicant :7, rue de la Bergère 1242 Satigny, Switzerland. Switzerland

(72)Name of Inventor :

1)ASHOKAN, Bharani

2)KIZILBASH, Muhammad

3)OUYANG, Qingbo

4)DASH, Stuart

5)MERCERET, Patrice

(57) Abstract :

The present disclosure generally provides taste-modifying compositions that reduce the off taste of alkali metal salts of peroxy monosulfate. In some aspects, the disclosure provides uses of such taste-modifying compositions to reduce the off taste of an alkali metal salt of peroxy monosulfate, such as potassium peroxy monosulfate. In some other aspects, the disclosure provides compositions (such as comestible compositions or oral care compositions), which comprise an alkali metal salt of peroxy monosulfate and a taste-modifying composition of the present disclosure. In some embodiments, such compositions are in the form of a food product, a beverage product, or an oral care product, such as a toothpaste, a mouthwash, and the like.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046467 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HYDROBORATION-OXIDATION PROCESS

(51) International classification	:C07C 29/48, C07C 35/08
(31) Priority Document No	:20161240.5
(32) Priority Date	:05/03/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/055205
Filing Date	:02/03/2021
(87) International Publication No	:WO 2021/175864
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)FIRMENICH SA

Address of Applicant :7, rue de la Bergère 1242 Satigny
Switzerland

(72)Name of Inventor :

1)SANTORO, Francesco

(57) Abstract :

The present invention relates to the field of organic synthesis and, more specifically, it concerns a process for preparing compound of formula (I) by a hydroboration-oxidation reaction of compound of formula (II).

No. of Pages : 10 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046468 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMPOSITIONS FOR REDUCING SALTY TASTE AND USES THEREOF

(51) International classification	:A61K 47/36, A61K 9/08, A61K 8/60, A61K 8/49, A61K 8/365	(71)Name of Applicant : 1)FIRMENICH SA Address of Applicant :7, rue de la Bergère 1242 Satigny Switzerland
(31) Priority Document No	:63/029132	(72)Name of Inventor :
(32) Priority Date	:22/05/2020	1)ASHOKAN, Bharani
(33) Name of priority country	:U.S.A.	2)KIZILBASH, Muhammad
(86) International Application No	:PCT/EP2021/063245	3)OUYANG, Qing-Bo
Filing Date	:19/05/2021	4)DASH, Stuart
(87) International Publication No	:WO 2021/233973	5)MERCERET, Patrice
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure generally provides taste-modifying compositions that reduce the salty taste of a sodium salt, such as sodium bicarbonate. In some aspects, the disclosure provides uses of such taste-modifying compositions to reduce the salty taste of a sodium salt. In some other aspects, the disclosure provides compositions (such as comestible compositions or oral care compositions), which comprise a sodium salt and a taste-modifying composition. In some embodiments, such compositions are in the form of a food product, a beverage product, or an oral care product (such as a toothpaste, mouthwash, and the like).

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046470 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHODS OF FUNCTIONALLY SCREENING BIOLOGICAL SEQUENCE FRAGMENTS

(51) International classification :G16B 35/10, G16B 35/20, G16B 50/00
(31) Priority Document No :62/965138
(32) Priority Date :23/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/014814
Filing Date :23/01/2021
(87) International Publication No :WO 2021/151041
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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(72)Name of Inventor :
1)ESVELT, Kevin, Michael
2)GRETTON, Dana

(57) Abstract :

The invention relates, in part, to methods of accurately and reliably detecting biological sequences corresponding to a particular function.

No. of Pages : 40 No. of Claims : 70

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046472 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HOT STAMP MOLDED BODY

(51) International classification	:C22C 38/00, C22C 38/58, C23C 2/06, C21D 1/18, C21D 9/00
(31) Priority Document No	:2020-057272
(32) Priority Date	:27/03/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/011957
Filing Date	:23/03/2021
(87) International Publication No	:WO 2021/193618
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan

(72)Name of Inventor :

1)KIKUCHI Shota

(57) Abstract :

This hot stamp molded body has a steel sheet and a zinc-based plating layer that is disposed on the steel sheet. The steel sheet has a predetermined chemical compositional makeup and has an area% of not less than 90% of martensite in a metal structure at a position 1/4 of the sheet thickness in the sheet thickness direction from a surface of the steel sheet. The zinc-based plating layer contains G phase and Fe-Zn solid solution. The cross-sectional area rate of voids in the zinc-based plating layer is not more than 15.0%.

No. of Pages : 33 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046473 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HETEROARYL-TRIAZOLE COMPOUNDS AS PESTICIDES

(51) International classification	:C07D 401/04, C07D 401/14, C07D 403/04, C07D 405/14, C07D 417/04	(71)Name of Applicant : 1)BAYER AKTIENGESELLSCHAFT Address of Applicant :Kaiser-Wilhelm-Allee 1 51373 Leverkusen Germany
(31) Priority Document No	:20158105.5	(72)Name of Inventor : 1)ARLT, Alexander
(32) Priority Date	:18/02/2020	2)CANCHO GRANDE, Yolanda
(33) Name of priority country	:EPO	3)FÜSSLEIN, Martin
(86) International Application No	:PCT/EP2021/053624	4)HAHN, Martin
Filing Date	:15/02/2021	5)JESCHKE, Peter
(87) International Publication No	:WO 2021/165195	6)MÜLLER, Steffen
(61) Patent of Addition to Application Number	:NA	7)SCHWARZ, Hans-Georg
Filing Date	:NA	8)TELSER, Joachim
(62) Divisional to Application Number	:NA	9)EBBINGHAUS-KINTSCHER, Ulrich
Filing Date	:NA	10)LINKA, Marc
		11)LÖSEL, Peter
		12)DAMIJONAITIS, Arunas Jonas
		13)HEISLER, Iring
		14)TURBERG, Andreas

(57) Abstract :

The present invention relates to novel heteroaryl-triazole compounds of the general formula (I), in which the structural elements X, Y, R1, R2, R3a, R3b, R4 and R5 have the meaning given in the description, to formulations and compositions comprising such compounds and for their use in the control of animal pests including arthropods and insects in plant protection and to their use for control of ectoparasites on animals.

No. of Pages : 236 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046477 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : HANDLE FOR A PERSONAL CARE SYSTEM

(51) International classification	:B26B 21/44, B26B 21/52
(31) Priority Document No	:62/987652
(32) Priority Date	:10/03/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/021602
Filing Date	:10/03/2021
(87) International Publication No	:WO 2021/183586
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)SIEGMANN, Eric, Glenn

2)HARRINGTON, Nicholas, Robert

3)WALKER, Vincent, Paul, Jr.

4)WASHINGTON, Jack, Anthony

(57) Abstract :

A handle for a personal care system with a first end having a head configured to engage a shaving cartridge, a second end with a partially enclosed ring having a first arm with a first end facing a first end of a second arm to defines a gap having a width. The first and second arms define an undercut region below the gap. A lower surface extends between the partially enclosed ring and the head, wherein the lower surface and the partially enclosed ring are configured to receive a container.

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046479 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : WORK RATE MEASUREMENT DEVICE AND WORK RATE MEASUREMENT METHOD

(51) International classification :G06Q 10/06
(31) Priority Document No :2020-025497
(32) Priority Date :18/02/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2021/004573
Filing Date :08/02/2021
(87) International Publication No :WO 2021/166716
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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Kawasaki-shi, Kanagawa 2138511 Japan
(72)**Name of Inventor :**
1)MATSUBAYASHI Yutaka

(57) Abstract :

This work rate measurement device has: a model creating means that causes cameras installed for a plurality of processes to perform imaging within a work frame and to machine-learn the position of a worker's hand placed within the work frame on the basis of data of the imaging, thereby creating a machine learning model for each of the cameras; a data analysis saving means that uses the machine learning model created by the model creating means to analyze, with respect to images of actual work being performed, whether the worker's hand position is contained within the work frame, and that saves analysis data in chronological order; and a work rate computing means that uses the analysis data saved by the data analysis saving means to determine a work rate within each work frame.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046481 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : THREAD WINDER

(51) International classification	:B65H 69/06
(31) Priority Document No	:2020-015301
(32) Priority Date	:31/01/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/002374
Filing Date	:25/01/2021
(87) International Publication No	:WO 2021/153479
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SAWADA, Akira
2)TAKADA, Hiroshi
3)MURAYAMA, Kenichi
4)TERAO, Yuho
5)NAKAYAMA, Noboru

(57) Abstract :

According to the present invention, the time and effort required to intentionally form a thread seam is reduced. An automatic winder 1 is provided with: a thread feeding part 11; a winding part 13; a cutter 33a which divides a running thread Y between the thread feeding part 11 and the winding part 13; a thread splicing mechanism 32 which, in a state where the thread Y is divided between the thread feeding part 11 and the winding part 13 in a thread running direction, performs a seam forming operation for splicing the thread Y supplied from the thread feeding part 11 to the thread end on the winding part 13 side to form a seam; and a unit control part 15. The unit control part 15 controls the winding part 13 and the cutter 33a so that the cutter 33a cuts the yarn Y each time the winding part 13 winds the thread Y of a predetermined length in a winding mode for winding the thread Y, and is able to execute a test package creation mode in which the thread splicing mechanism 32 is made to perform a thread splicing operation.

No. of Pages : 93 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046490 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : ENGINE VALVE ACTUATION WITH HANDOFF CONTROL BETWEEN COOPERATIVE VALVE ACTUATION MOTIONS

(51) International classification	:F01L 13/00, F01L 1/16, F01L 1/20
(31) Priority Document No	:62/979717
(32) Priority Date	:21/02/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/051446
Filing Date	:19/02/2021
(87) International Publication No	:WO 2021/165919
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)JACOBS VEHICLE SYSTEMS, INC.

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(72)Name of Inventor :

1)SCHWOERER, John A.

2)BALTRUCKI, Justin D.

(57) Abstract :

A valve actuation system comprises a first motion transfer mechanism operatively connected to a first valve actuation motion source and to the at least one engine valve, a second motion transfer mechanism operatively connected to a second valve actuation motion source; and a selectable coupling mechanism between the first and second motion transfer mechanisms. The coupling mechanism is operable in a first state where first valve actuation motions are conveyed to the at least one engine valve via the first motion transfer mechanism, and a second state where second valve actuation motions are additionally conveyed to the at least one engine valve via the second motion transfer mechanism, the coupling mechanism and the first motion transfer mechanism. During a handoff between the first and second valve actuation motions or vice versa, a difference in valve actuation velocities of the first and second valve actuation motions does not exceed a threshold.

No. of Pages : 18 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046491 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : GUIDEWIRE-MANAGEMENT DEVICES AND METHODS THEREOF

(51) International classification :A61M 25/09

(31) Priority Document No :62/989397

(32) Priority Date :13/03/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/022226

Filing Date :12/03/2021

(87) International Publication No :WO 2021/183964

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)HOWELL, Glade, H.

2)THORNLEY, Kyle, G

3)SEPULVEDA, Juan

4)LLOYD, Kevin

(57) Abstract :

Guidewire-management devices and systems thereof are disclosed herein. A guidewire-management device can include a guidewire, a first sleeve, and a second sleeve. The first sleeve can be configured for distally feeding the guidewire out of the guidewire-management device. The first sleeve can also be configured for proximally feeding the guidewire into the guidewire-management device. The second sleeve can be proximal of the first sleeve in the guidewire-management device. The second sleeve can be configured for feeding the guidewire in concert with the first sleeve. At least a length of the guidewire extending between the first sleeve and the second sleeve can be disposed within a sterile barrier configured to maintain sterility of the guidewire.

No. of Pages : 37 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046499 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : PACKAGE COMPRISING AN IMAGE SENSOR FOR CAPTURING IMAGES OF AN OBJECT INSIDE THE PACKAGE, AND AN EXTERNAL SCREEN FOR DISPLAYING THE IMAGES CAPTURED BY THE SENSOR

(51) International classification	:G06Q 10/08, A47G 29/14
(31) Priority Document No	:FR2002659
(32) Priority Date	:18/03/2020
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2021/056279
Filing Date	:11/03/2021
(87) International Publication No	:WO 2021/185679
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)PA.COTTE SA

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(72)Name of Inventor :

1)COTTE, Pierre-Alain

(57) Abstract :

The invention relates to a package (1) intended to contain at least one object, comprising: - a box (10); - a cover (11) able to adopt, with the box (10), a closed configuration in which the package is closed or an open configuration in which the package is open, - a device (12) for detecting the closed or open configurations of the package, - at least one image sensor (13) for capturing images related to said one or more objects, - at least one electronic display device (14) that is consultable from the exterior of the package, - a computing unit (15), which is intended to receive images captured by the image sensor (13) and to transmit, to the electronic display device (14), settings regarding display of said images, - means (140) for triggering the image sensor (13), characterised in that the triggering means (140) are present on an external face (100) of the package and in that the computing unit (15) is connected to the detecting device (12) and is parameterised to permit a display, by the display device (14), of images captured by the image sensor (13), in the closed configuration of the package and, conversely, to prevent the display in the open configuration of the package (1).

No. of Pages : 10 No. of Claims : 11

(54) Title of the invention : FEEDBACK METHOD AND DEVICE FOR HYBRID AUTOMATIC REPEAT REQUEST INFORMATION

(51) International classification	:H04L 1/16, H04L 1/18, H04W 72/04
(31) Priority Document No	:202010093986.7
(32) Priority Date	:14/02/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/074365
Filing Date	:29/01/2021
(87) International Publication No	:WO 2021/159974
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)HUAWEI TECHNOLOGIES CO., LTD.

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(72)Name of Inventor :

1)CHEN, Ying

2)LUO, Hejia

3)QIAO, Yunfei

4)LI, Rong

5)WANG, Jun

(57) Abstract :

Provided are a feedback method for hybrid automatic repeat request (HARQ) bitmap information, and a related device. The method comprises: a terminal receiving indication information from an access network device, wherein the indication information is used for determining whether a transmit block transmitted in a plurality of downlink transmission units needs to carry out HARQ feedback; determining HARQ bitmap information according to the indication information, wherein the HARQ bitmap information comprises HARQ feedback information of at least one target transmission unit, and the target transmission unit represents a downlink transmission unit in the plurality of downlink transmission units that requires HARQ feedback; and sending the HARQ bitmap information to the access network device. By means of the embodiments of the present application, the overheads of a feedback resource are reduced, the communication time delay is reduced, and the communication throughput rate is increased in an NTN scenario. In the embodiments of the present application, NTN comprises various satellite-related communication technologies, and communication technologies related to non-terrestrial communication devices, such as an unmanned aerial vehicle and a hot air balloon.

No. of Pages : 57 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046511 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COCOA COMPOSITION

(51) International classification	:A23G 1/36, A23G 1/40, A23G 1/44, A23G 1/48
(31) Priority Document No	:20158685.6
(32) Priority Date	:21/02/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/US2021/018482
Filing Date	:18/02/2021
(87) International Publication No	:WO 2021/168053
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CARGILL, INCORPORATED

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(72)Name of Inventor :

1)BAREY, Vanessa

2)VERVLIET, Stefan

(57) Abstract :

The present invention relates to a cocoa composition comprising at least 30 weight% sucrose and less than 5 weight% of milk solids, characterized in that it comprises 0.5-15 weight% of a plant-based protein other than soy protein, and 0.5-20 weight% of a bulking ingredient. Food products comprising the cocoa composition described are also provided, for example, bakery products, confectionary products, and dairy-alternative products.

No. of Pages : 14 No. of Claims : 14

(54) Title of the invention : ANTENNA DEVICE

(51) International classification :H01Q 3/08, F16H 1/16, H01Q 1/12
 (31) Priority Document No :10-2020-0015233
 (32) Priority Date :07/02/2020
 (33) Name of priority country :Republic of Korea
 (86) International Application No :PCT/KR2021/001578
 Filing Date :05/02/2021
 (87) International Publication No :WO 2021/158075
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)KMW INC.

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(72)Name of Inventor :

1)KIM, In Ho**2)KANG, Seong Man****3)YANG, Hyoung Seok****4)HAN, Yong Hee****5)HONG, Young Ji****6)PARK, Dae Myung**

(57) Abstract :

Provided is an antenna device in which an antenna unit can be tilted to secure installation space for antenna-related components and eliminate dead zones for signals transmitted/received to/from the antenna. To this end, the antenna device according to the present invention comprises: a pole; an antenna unit; a lower link unit that couples the lower part of the antenna unit to the pole so that the lower part can rotate vertically; and a tilt driving unit that couples the upper part of the antenna unit to the pole and rotates and tilts the upper part of the antenna unit with respect to the rotation center of the lower link unit. The tilt driving unit comprises: a tilt motor; a worm gear rotated by the driving force of the tilt motor; a first tilt arm coupled to the antenna unit; a second tilt arm coupled to the pole; a first worm wheel rotated by the rotation of the worm gear to rotate the first tilt arm; and a second worm wheel rotated by the rotation of the worm gear to rotate the second tilt arm.

No. of Pages : 59 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046515 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COCOA COMPOSITION

(51) International classification	:A23G 1/36, A23G 1/40, A23G 1/44, A23G 1/48
(31) Priority Document No	:20158678.1
(32) Priority Date	:21/02/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/US2021/018477
Filing Date	:18/02/2021
(87) International Publication No	:WO 2021/168050
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)BAREY, Vanessa

2)VERVLIET, Stefan

(57) Abstract :

The present invention relates to a cocoa composition comprising less than 5 weight% of milk solids, characterized in that it comprises 0.5-15 weight% of a pea-based protein and 0.5-10 weight% of a plasticizer ingredient. Also provided are food products comprising the cocoa composition described, for example bakery products, confectionary products, and dairy-alternative products.

No. of Pages : 14 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046516 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COCOA COMPOSITION

(51) International classification	:A23G 1/36, A23G 1/40, A23G 1/44, A23G 1/48
(31) Priority Document No	:20158681.5
(32) Priority Date	:21/02/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/US2021/018479
Filing Date	:18/02/2021
(87) International Publication No	:WO 2021/168051
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CARGILL, INCORPORATED

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(72)Name of Inventor :

1)BAREY, Vanessa

2)VERVLIET, Stefan

(57) Abstract :

The present invention relates to a cocoa composition comprising at least 2 weight% of cocoa solids and less than 5 weight% of milk solids, and characterized in that it comprises 0.5-20% of a bulking ingredient and 0.5-10% of a plasticizers ingredient. Food products comprising the cocoa composition described are also provided, for example, bakery products, confectionary products, and dairy-alternative products.

No. of Pages : 15 No. of Claims : 15

(54) Title of the invention : SIGNALING CHROMA OFFSET PRESENCE IN VIDEO CODING

(51) International classification	:H04N 19/186, H04N 19/70	(71)Name of Applicant :
(31) Priority Document No	:20305269.1	1)INTERDIGITAL VC HOLDINGS FRANCE
(32) Priority Date	:16/03/2020	Address of Applicant :975 avenue des Champs Blancs 35576
(33) Name of priority country	:EPO	Cesson Sevigne France
(86) International Application No	:PCT/EP2021/054456	(72)Name of Inventor :
Filing Date	:23/02/2021	1)NASER, Karam
(87) International Publication No	:WO 2021/185540	2)LELEANNEC, Fabrice
(61) Patent of Addition to Application Number	:NA	3)POIRIER, Tangi
Filing Date	:NA	4)GALPIN, Franck
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A video coding system handling at least a block of at least an image of a video comprises an encoding process and decoding process respectively providing or using signaling information related to the video, wherein the signaling information comprises at least an information representative of the presence of chroma offset values, wherein when chroma is present and does not use separate color planes, the information representative of the presence of chroma offset values is set and the signaling information further comprises information representative of a chroma offsets values and wherein when chroma is not present or uses separate color planes, the information representative of the presence of chroma offset values is reset and no information representative of a chroma offsets values is further signaled.

No. of Pages : 30 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046524 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : PREPARATION METHOD FOR GLUFOSINATE AMMONIUM

(51) International classification	:C07F 9/30, C07F 9/32, C07C 271/22
(31) Priority Document No	:202010064268.7
(32) Priority Date	:20/01/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/072854
Filing Date	:20/01/2021
(87) International Publication No	:WO 2021/147894
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
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(72)Name of Inventor :
1) LIU, Yongjiang
2) ZHOU, Lei
3) ZENG, Wei
4) XU, Min
5) CHENG, Ke
6) YIN, Yingsui

(57) Abstract :

A preparation method for glufosinate ammonium or a salt thereof, an enantiomer thereof, or mixtures of the enantiomer thereof in all ratios, comprising reacting a compound of formula (II) or a salt, an enantiomer, or mixtures of the enantiomer in all ratios with one or more compounds of formula (III) or mixtures thereof.

No. of Pages : 10 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046530 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : CHOCOLATE COMPOSITION

(51) International classification	:A23G 1/36, A23G 1/40, A23G 1/44, A23G 1/48
(31) Priority Document No	:20158674.0
(32) Priority Date	:21/02/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/US2021/018474
Filing Date	:18/02/2021
(87) International Publication No	:WO 2021/168047
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CARGILL, INCORPORATED

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(72)Name of Inventor :

1)BAREY, Vanessa

2)VERVLIET, Stefan

(57) Abstract :

The present invention relates to a chocolate composition comprising at least 30 weight% of cocoa solids and less than 2 weight% of milk solids, based on the total weight of the chocolate composition, characterized in that it further comprises 0.5-15 weight% plant-based protein and 0.5-10 weight% of a plasticizer ingredient, wherein the chocolate composition is substantially free from soy protein.

No. of Pages : 15 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046536 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SUBSEA DESALINATION SYSTEM FOR SHALLOW WATER

(51) International classification	:C02F 1/44, C02F 1/26, B01D 61/02, B01D 61/08	(71)Name of Applicant : 1)WATERISE AS Address of Applicant :Forskningsparken Gaustadalléen 21 0349 Oslo Norway
(31) Priority Document No	:20200296	(72)Name of Inventor :
(32) Priority Date	:11/03/2020	1)TAYEBI, Davoud
(33) Name of priority country	:Norway	2)JERNSLETTEN, Jo
(86) International Application No	:PCT/NO2021/050062	3)OMBERG, Tom Gunnar
Filing Date	:10/03/2021	4)HANA, Morten
(87) International Publication No	:WO 2021/182971	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to shallow water subsea desalination system with a subsea desalination template (20) located on a seabed. A retrievable subsea RO-module (4) is located in a subsea RO-module zone (23) of the subsea desalination template (20) and is connected to a RO-module connection. A seawater booster pump assembly (1) includes a seawater inlet (7) and an outlet in fluid connection with a seawater inlet side of the RO-cartridge assembly. A retrievable subsea booster module (2) includes the seawater booster pump assembly (1). A pressure regulator (11) is in fluid connection with a retentate side of the least one retrievable subsea RO-module (4).

No. of Pages : 27 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046540 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR PROCESSING DISCONTINUOUS RECEPTION PARAMETER, STORAGE MEDIUM, AND PROCESSOR

(51) International classification	:H04W 52/02	(71)Name of Applicant :
(31) Priority Document No	:PCT/CN2020/073639	1)GUANGDONG OPPO MOBILE
(32) Priority Date	:21/01/2020	TELECOMMUNICATIONS CORP., LTD.
(33) Name of priority country	:China	Address of Applicant :No. 18, Haibin Road, Wusha, Chang'an
(86) International Application No	:PCT/CN2021/071916	Dongguan, Guangdong 523860 China
Filing Date	:14/01/2021	(72)Name of Inventor :
(87) International Publication No	:WO 2021/147771	1)LU, Qianxi
(61) Patent of Addition to Application	:NA	2)ZHAO, Zhenshan
Number	:NA	3)LIN, Huei-Ming
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application discloses a method for processing discontinuous reception parameters, a storage medium and a processor. The method comprises: user equipment receiving discontinuous reception parameters and parameter values, the discontinuous reception parameters corresponding to different communication parameters being different, or the parameter values of the discontinuous reception parameters corresponding to different communication parameters being different; and the user equipment performing configuration on the basis of the discontinuous reception parameters and the parameter values. The present application solves the technical problems in the related art of being unable to achieve the purpose of power saving as user equipment has a large power consumption when transmitting data (such as a direct communication request (DCR) message or a discovery message) on a sidelink.

No. of Pages : 50 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046542 A

(19) INDIA

(22) Date of filing of Application :16/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : FREEFORM CONTACT LENSES FOR MYOPIA MANAGEMENT

(51) International classification	:G02C 7/04
(31) Priority Document No	:2020900414
(32) Priority Date	:14/02/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050099
Filing Date	:06/02/2021
(87) International Publication No	:WO 2021/159169
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
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2)BRIGHTEN OPTIX CORP.
(72)Name of Inventor :
1)BAKARAJU, Ravi Chandra
2)EHRMANN, Klaus
3)FALK, Darrin

(57) Abstract :

The present disclosure relates to a contact lens for managing myopia wherein the contact lens comprises of an optical zone about an optical axis and a non-optical peripheral carrier zone about the optical zone; wherein the optical zone is configured with a substantially single vision power profile providing correction for the eye, and a decentred second region configured with one or more meridionally and azimuthally variant power distributions, wherein at least one of the meridionally and azimuthally variant power distribution is devoid of mirror symmetry, the second region located substantially away from the optical centre and configured to provide at least in part a regional conoid of partial blur producing an optical stop signal for the eye; and wherein the non-optical peripheral carrier zone is configured with a thickness profile that is substantially rotationally symmetric to further provide a temporally and spatially varying stop signals to reduce myopia progression.

No. of Pages : 58 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046655 A

(19) INDIA

(22) Date of filing of Application :17/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : 3-PYRROLIDINE-INDOLE DERIVATIVES AS SEROTONERGIC PSYCHEDELIC AGENTS FOR THE TREATMENT OF CNS DISORDERS

(51) International classification	:C07D 403/06, A61K 31/404, A61K 31/675, A61P 25/00, C07D 401/14	(71)Name of Applicant : 1)MINDSET PHARMA INC. Address of Applicant :217 Queen Street West, Suite 401 Toronto, Ontario M5V 0R2 Canada
(31) Priority Document No	:62/969894	(72)Name of Inventor :
(32) Priority Date	:04/02/2020	1)SLASSI, Abdelmalik
(33) Name of priority country	:U.S.A.	2)ARAUJO, Joseph
(86) International Application No	:PCT/CA2021/050122	
Filing Date	:04/02/2021	
(87) International Publication No	:WO 2021/155467	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to 3-cyclic amine-indole derivatives of general Formula (I), to processes for their preparation, to compositions comprising them and to their use in activation of a serotonin receptor in a cell, as well as to treating diseases, disorders or conditions by activation of a serotonin receptor in a cell. The diseases, disorders or conditions include, for example, psychosis, mental illnesses, and other neurological diseases, disorders and conditions. Formula (I)

No. of Pages : 153 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046659 A

(19) INDIA

(22) Date of filing of Application :17/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : SILK COATED LEATHER AND PRODUCTS AND METHODS OF PREPARING THE SAME

(51) International classification :C08L 89/00, D06M 15/00, D06M 15/01
(31) Priority Document No :62/962655
(32) Priority Date :17/01/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/013771
Filing Date :16/01/2021
(87) International Publication No :WO 2021/146654
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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3)GOLDBERG, Ilan, E.
4)JOHNSON, Sara
5)UFRET, Maria
6)ALTMAN, Gregory, H.
7)BOSQUES, Carlos, J.
8)COSTACHE, Marius

(57) Abstract :

Silk processed, coated, repaired, and/or infused leather or leather articles, and methods of preparing the same are disclosed herein.

No. of Pages : 354 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046660 A

(19) INDIA

(22) Date of filing of Application :17/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : LEAD STORAGE BATTERY

(51) International classification	:H01M 50/454, H01M 10/12, H01M 50/411, H01M 50/414, H01M 50/42	(71)Name of Applicant : 1)ASAHI KASEI KABUSHIKI KAISHA Address of Applicant :1-1-2 Yurakucho, Chiyoda-ku, Tokyo 1000006 Japan
(31) Priority Document No	:2020-060528	(72)Name of Inventor :
(32) Priority Date	:30/03/2020	1)YAMADA, Kentaro
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2021/011516	
Filing Date	:19/03/2021	
(87) International Publication No	:WO 2021/200290	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a lead storage battery provided with a positive electrode, a negative electrode, an electrolytic solution, a separator interposed between the positive electrode and the negative electrode, and non-woven fabric. The non-woven fabric includes fibers and a filler, and is disposed between the positive electrode and the separator. The separator is provided with a rib formed in a protruding shape from a base portion on the positive electrode side. The relation T/R, which is between the thickness T of the non-woven fabric and the height R from the base portion of the separator taken as a starting point to the top of the rib, is 0.10-11.

No. of Pages : 49 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046661 A

(19) INDIA

(22) Date of filing of Application :17/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : BATTERY PACK COMPRISING HEAT DISSIPATION STRUCTURE OF PROTECTIVE CIRCUIT MODULE USING HEAT DISSIPATION TAPE

(51) International classification	:H01M 50/209, H01M 50/572, H01M 10/42, H01M 10/667	(71)Name of Applicant : 1)LG ENERGY SOLUTION, LTD. Address of Applicant :Tower1 108, Yeoui-daero, Yeongdeungpo-gu Seoul 07335 Republic of Korea
(31) Priority Document No	:10-2020-0142241	(72)Name of Inventor :
(32) Priority Date	:29/10/2020	1)OH, Sung Jin
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2021/015102	
Filing Date	:26/10/2021	
(87) International Publication No	:WO 2022/092765	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a battery pack comprising a heat dissipation structure of a protective circuit module (PCM) using a heat dissipation tape, and provides a battery pack comprising a heat dissipation structure for dispersing and dissipating heat from a protection circuit module (PCM) that is formed by applying and using a heat dissipation tape made of a material having high thermal conductivity instead of a conventional Poron tape.

No. of Pages : 14 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007844 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PRESSURE RELIEF ASSEMBLIES AND METHODS

(51) International classification	:B65D 83/70, H01M 50/342, H01G 9/12, F17C 13/12, B65D 90/36	(71)Name of Applicant : 1)ILLINOIS TOOL WORKS INC. Address of Applicant :155 Harlem Avenue Glenview, Illinois 60025 U.S.A.
(31) Priority Document No	:63/062588	(72)Name of Inventor :
(32) Priority Date	:07/08/2020	1)PRYMULA, David A.
(33) Name of priority country	:U.S.A.	2)SCHOENBORN, Randall J.
(86) International Application No	:PCT/US2021/045149	3)HAZARD, Bradley
Filing Date	:09/08/2021	4)SHUKLA, Umang
(87) International Publication No	:WO 2022/032216	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure generally relates to a venting system (20) that includes a wall (26, 28) of a lid or a container (22), the lid or container (22) defining a central longitudinal axis (50), and a line segment (52) that is measured from the longitudinal axis (50) to an outermost surface of the lid or container (22), and a pressure relief feature (24) that is disposed along the lid or container (22). The pressure relief feature (24) includes a thinned region (58) of the lid or container (22) that defines a minimum thickness that is less than 40% of a maximum thickness of the respective lid or container (22). The pressure relief feature (24) extends at least 180 degrees about the longitudinal axis (50), and the pressure relief feature (24) is located at a distance from the longitudinal axis of more than 80% of the line segment (52).

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007852 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR THE FERMENTATIVE PRODUCTION OF GUANIDINOACETIC ACID

(51) International classification	:C12P 13/00, C12P 13/04, C12N 9/10, C12N 9/88, C12N 9/00
(31) Priority Document No	:20184966.8
(32) Priority Date	:09/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/067647
Filing Date	:28/06/2021
(87) International Publication No	:WO 2022/008276
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)Name of Inventor :

1)SCHNEIDER, Frank

2)JANKOWITSCH, Frank

(57) Abstract :

The present invention relates to a microorganism transformed with L-arginine:glycine amidotransferase and reduced malate synthase and a glyoxylate aminotransferase to be capable of producing guanidinoacetic acid (GAA) and to a method for the fermentative production of GAA using such microorganism. The present invention also relates to a method for the fermentative production of creatine.

No. of Pages : 33 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007856 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD FOR THE FERMENTATIVE PRODUCTION OF GUANIDINOACETIC ACID

(51) International classification	:C12P 13/00, C12P 13/04, C12N 9/10
(31) Priority Document No	:20184949.4
(32) Priority Date	:09/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/067676
Filing Date	:28/06/2021
(87) International Publication No	:WO 2022/008280
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
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Address of Applicant :Rellinghauser Strasse 1-11 45128 Essen
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(72)Name of Inventor :
1)SCHNEIDER, Frank
2)JANKOWITSCH, Frank

(57) Abstract :

The present invention relates to a microorganism transformed with L-arginine:glycine amidinotransferase and a glyoxylate aminotransferase and reduced malate synthase to be capable of producing guanidinoacetic acid (GAA) and to a method for the fermentative production of GAA using such microorganism. The present invention also relates to a method for the fermentative production of creatine.

No. of Pages : 32 No. of Claims : 28

(54) Title of the invention : TRIGGERED HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT REPORTING FOR DOWNLINK SEMI-PERSISTENT SCHEDULING DATA TRANSMISSION

(51) International classification	:H04L 1/18, H04L 5/00, H04L 1/16, H04W 72/04, H04W 80/02	(71)Name of Applicant : 1)NOKIA TECHNOLOGIES OY Address of Applicant :Karakaari 7 02610 Espoo Finland
(31) Priority Document No	:63/054756	(72)Name of Inventor : 1)SCHÖBER, Karol
(32) Priority Date	:21/07/2020	2)ABREU, Renato, Barbosa
(33) Name of priority country	:U.S.A.	3)HOOLI, Kari
(86) International Application No	:PCT/FI2021/050439	4)LUNTTILA, Timo
Filing Date	:14/06/2021	5)HUGL, Klaus
(87) International Publication No	:WO 2022/018322	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method may include receiving, by a user equipment from a network entity, a first downlink (DL) control signal activating semi-persistent scheduling of a first set of downlink data transmissions, the downlink control signal indicating an applicable hybrid automatic repeat request (HARQ) feedback timing for the first set of downlink data transmissions and receiving one or more of the first set of downlink data transmissions. The user equipment may determine that an applicable HARQ feedback timing for a second set of downlink data transmission previously received with an inapplicable HARQ feedback timing has not been provided. In response to the determination, the user equipment may determine a HARQ feedback timing for the one or more of the first set of downlink data transmissions based a second DL control signal indicating an applicable HARQ feedback timing received after reception of the one or more of the first set of downlink data transmissions.

No. of Pages : 26 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046211 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : LEAD-FREE AND ANTIMONY-FREE SOLDER ALLOY, SOLDER BALL, AND SOLDER JOINT

(51) International classification :C22C 13/00, C22C 13/02, B23K 35/26
(31) Priority Document No :2020-023277
(32) Priority Date :14/02/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2021/004571
Filing Date :08/02/2021
(87) International Publication No :WO 2021/161954
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SENJU METAL INDUSTRY CO., LTD.
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1)IIJIMA Yuuki
2)YOSHIKAWA Shunsaku
3)SAITO Takashi
4)DEI Kanta
5)MATSUFUJI Takahiro

(57) Abstract :

Provided are a lead-free and antimony-free solder alloy, a solder ball, and a solder joint in which crystal grains at a joining interface are micronized, thereby improving shear strength and making it possible to suppress fusion failure. The lead-free and antimony-free solder alloy has an alloy composition containing, in terms of mass%, 0.1-4.5% of Ag, 0.20-0.85% of Cu, 0.2-5.00% of Bi, 0.005-0.09% of Ni, and 0.0005-0.0090% of Ge, with the balance being Sn. The alloy composition satisfies the following formulas (1) and (2). Formula (1): $0.013 = (Ag + Cu + Ni + Bi) \times Ge = 0.027$ Formula (2): $Sn \times Cu \times Ni = 5.0$ In formulas (1) and (2), Ag, Cu, Ni, Bi, Ge, and Sn represent the element contents (mass%) for the respective elements of the alloy composition.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046244 A

(19) INDIA

(22) Date of filing of Application :13/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : METHOD OF DIFFERENTIATING NEURAL CELLS AND RELATED COMPOSITIONS AND METHODS OF USE

(51) International classification	:C12N 5/0793, A61P 25/16, C12N 5/00
(31) Priority Document No	:62/960669
(32) Priority Date	:13/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/013324
Filing Date	:13/01/2021
(87) International Publication No	:WO 2021/146349
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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1)BRATT-LEAL, Andres

2)LORING, Jeanne

3)TRAN, Ha

4)WILLIAMS, Roy

5)MOSSMAN, Jim

(57) Abstract :

The present disclosure provides methods of lineage specific differentiation of pluripotent stem cells, including induced pluripotent stem cells, into floor plate midbrain progenitor cells, determined dopamine (DA) neuron progenitor cells, and/or DA neurons. Also provided are compositions uses thereof, such as for treating neurodegenerative diseases and conditions, including Parkinson's disease.

No. of Pages : 130 No. of Claims : 63

(54) Title of the invention : IMAGE ENCODING/DECODING METHOD AND DEVICE FOR SIGNALING INFORMATION RELATED TO SUB PICTURE AND PICTURE HEADER, AND METHOD FOR TRANSMITTING BITSTREAM

(51) International classification	:H04N 19/70, H04N 19/184, H04N 19/44, H04N 19/30	(71)Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/961188	(72)Name of Inventor :
(32) Priority Date	:14/01/2020	1)HENDRY, Hendry
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/KR2021/000515	
Filing Date	:14/01/2021	
(87) International Publication No	:WO 2021/145687	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are an image encoding/decoding method and device for signaling information related to a sub picture and a picture header, and a method for transmitting a bitstream. The image decoding method according to the disclosure can comprise the steps of: acquiring a first flag indicating whether information related to a sub picture is present in a bitstream; acquiring a second flag indicating whether picture header information is present in a slice header; and decoding the bitstream on the basis of the first flag and the second flag. If the first flag indicates that the information related to the sub picture is present in the bitstream, the second flag can have a value indicating that the picture header information is not present in the slice header.

No. of Pages : 82 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007915 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : AAV VECTORS ENCODING PARKIN AND USES THEREOF

(51) International classification :C12N 15/86

(31) Priority Document No :63/060353

(32) Priority Date :03/08/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/044351

Filing Date :03/08/2021

(87) International Publication No :WO 2022/031708

(61) Patent of Addition to Application

Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)ABELIOVICH, Asa

2)SHYKIND, Benjamin

(57) Abstract :

The disclosure relates, in some aspects, to compositions and methods for delivery of transgenes to a subject. In some embodiments, the disclosure provides expression constructs (e.g., vectors containing an expression construct) comprising a transgene encoding human Parkin or a portion thereof. In some embodiments, the disclosure provides methods of treating a neurodegenerative disease (e.g., Parkinson's disease) by administering such expression constructs to a subject in need thereof.

No. of Pages : 27 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007918 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ADDITIVE FOR FCC PROCESS

(51) International classification	:C10G 11/02, B01J 29/46, C10G 11/05
(31) Priority Document No	:63/198262
(32) Priority Date	:07/10/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/051509
Filing Date	:22/09/2021
(87) International Publication No	:WO 2022/076169
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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1)ALLAHVERDI, Mehdi

2)DIDDAMS, Paul

3)KANYI, Charles

(57) Abstract :

The invention includes an additive for maximizing production of olefins. The additive comprises a ZSM-5 molecular sieve, at least one inorganic oxide, and phosphorus oxide. The ZSM-5 molecular sieve has iron in the framework, and the additive comprises at least 0.5 weight percent iron, as measured as iron oxide, in the molecular sieve framework. The additive is useful for maximizing production of olefins in a FCC process

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007926 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : PROCESS FOR PURIFYING A SYNTHESIS GAS

(51) International classification	:C01B 3/34, B01D 53/047, C01B 3/56
(31) Priority Document No	:63/063646
(32) Priority Date	:10/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/056844
Filing Date	:22/10/2020
(87) International Publication No	:WO 2022/035450
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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Address of Applicant :10 Riverview Drive Danbury, CT 06810 U.S.A.

(72)Name of Inventor :

1)COLEMAN, Luke, J.

2)KIM, Kihyung

3)SWINDLEHURST, Garrett, R.

4)SHAH, Minish, M.

(57) Abstract :

The present invention provides for a pressure swing adsorption (PSA) process for the substantial removal of H₂O and CO₂ from a synthesis gas to obtain a multicomponent product gas substantially free of H₂O and CO₂ with high recovery of the product gas. Further, the present invention provides an integrated process that achieves sufficiently high H₂ and CO recoveries such that compression and recycling of the syngas purification PSA tailgas is not necessary to be economically advantageous compared to the conventional processes.

No. of Pages : 40 No. of Claims : 17

(54) Title of the invention : LAPATINIB PARTICLES AND USES THEREOF

(51) International classification	:A61K 31/517, A61K 9/00, A61K 9/16, A61K 9/10, A61K 47/26	(71)Name of Applicant : 1)CRITITECH, INC. Address of Applicant :1849 E. 1450 Road Lawrence, KS 66044 U.S.A.
(31) Priority Document No	:63/055788	(72)Name of Inventor :
(32) Priority Date	:23/07/2020	1)SITTENAUER, Jacob
(33) Name of priority country	:U.S.A.	2)FARTHING, Joseph
(86) International Application No	:PCT/US2021/042554	3)WILLIAMS, Mark
Filing Date	:21/07/2021	4)BALTEZOR, Michael
(87) International Publication No	:WO 2022/020455	5)DIZEREGA, Gere
(61) Patent of Addition to Application Number	:NA	6)ABARCA, Aranza, Barreda
Filing Date	:NA	7)CLARK, Shelby
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure provides particles of at least 95% by weight of lapatinib, or a pharmaceutically acceptable salt thereof, wherein the particles have a specific surface area (SSA) of at least 10 m²/g and have a mean particle size by volume distribution of between 0.7 and 8 µm. A method for making lapatinib particles, comprising: (a) introducing (i) a solution comprising at least one solvent selected from the group consisting of acetone and DCM, or combinations thereof, and at least one solute comprising lapatinib into a nozzle inlet, and (ii) a compressed fluid into an inlet of a vessel; (b) passing the solution out of a nozzle orifice and into the pressurizable chamber to produce an output stream of atomized droplets, wherein the nozzle orifice is located 2 and 20 mm from a sonic energy source, wherein the sonic energy source produces sonic energy with an amplitude between 10% and 100% during the passing, and wherein the nozzle orifice has a diameter of between 20 and 125 µm; (c) contacting the atomized droplets with the compressed fluid, to cause depletion of the solvent from the atomized droplets, wherein steps (a), (b), and (c) are carried out under supercritical temperature and pressure for the compressed fluid.

No. of Pages : 20 No. of Claims : 28

(54) Title of the invention : METHOD AND APPARATUS FOR DELIVERING FLUID DROPLETS ONTO AN OPEN AND STATIONARY TRAY

(51) International classification	:A01K 45/00, A61D 1/02, A61D 7/00, B05B 13/04	(71)Name of Applicant : 1)DESVAC Address of Applicant :23 boulevard de la Chanterie ZA Pole 49 49124 SAINT-BARTHELEMY D'ANJOU France
(31) Priority Document No	:FR2007533	(72)Name of Inventor :
(32) Priority Date	:17/07/2020	1)MARS, Julie
(33) Name of priority country	:France	2)SCHERDEL, Béatrice
(86) International Application No	:PCT/FR2021/051331	3)BOISDON, Olivier
Filing Date	:16/07/2021	
(87) International Publication No	:WO 2022/013507	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method and apparatus for delivering droplets of fluids onto an open tray containing poultry, the tray being stationary. According to the invention, the method comprises the following steps: (a) a movable arm is moved over the tray in translation in a first direction, said arm supporting a first set of dispensing nozzles and a second set of dispensing nozzles, said nozzles of each set being arranged to cover the entire dimension of the tray in a second direction perpendicular to the first direction; (b) initially, droplets of at least one first fluid are dispensed by spraying using the first set of dispensing nozzles; (c) and then at least one second fluid, distinct from said at least one first fluid to be sprayed, is dispensed by ejecting individual drops by means of the second set of dispensing nozzles.

No. of Pages : 13 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007871 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : TRUE RANDOM NUMBER GENERATOR

(51) International classification	:G06F 7/58
(31) Priority Document No	:2020123866
(32) Priority Date	:17/07/2020
(33) Name of priority country	:Russia
(86) International Application No	:PCT/RU2021/050010
Filing Date	:18/01/2021
(87) International Publication No	:WO 2021/162586
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Switzerland
(72)**Name of Inventor :**
1)GONCHAROV, Sergey Vladimirovich

(57) Abstract :

This invention relates to devices for generating true random numbers, comprising a digital chaotically oscillating autonomous Boolean network as an entropy source. According to the invention, a digital chaotically oscillating autonomous Boolean network consists of three interconnected logic elements, two of which are two-input XOR and/or XNOR logic elements, while the third logic element has three inputs and one output and performs a special ones counting logic function, wherein a logical one is set at the output thereof if a logical one is present at no more than one of the inputs thereof, and otherwise a logical zero is set at said output. The technical result achieved is that of increasing the speed at which true random numbers are generated while reducing power consumption.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007875 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : BEAM INFORMATION INDICATION METHOD AND APPARATUS

(51) International classification	:H04W 72/04, H04B 7/06
(31) Priority Document No	:202010724641.7
(32) Priority Date	:24/07/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/102702
Filing Date	:28/06/2021
(87) International Publication No	:WO 2022/017130
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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2)QIAO, Yunfei

3)SHI, Xueliang

4)LUO, Hejia

5)LI, Rong

6)WANG, Jun

(57) Abstract :

The present application provides a beam information indication method and apparatus. A terminal device implements updating of beam domain information by obtaining reference domain information of a plurality of beams and a first offset respectively corresponding to each time, the first offset being used for indicating an offset value of domain information of the plurality of beams with respect to the reference domain information of the plurality of beams. According to the technical solution of the present application, in the case of a small signaling overhead, domain information of a plurality of beams may be updated, and the method and apparatus may be applied to a satellite communication system to implement interference management of satellite beams.

No. of Pages : 81 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007928 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : NR RELAYS METHODS FOR SUPPORTING LATENCY REDUCTION FOR SL RELAYS

(51) International classification	:H04W 88/04, H04W 4/40, H04W 76/14
(31) Priority Document No	:63/061617
(32) Priority Date	:05/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044805
Filing Date	:05/08/2021
(87) International Publication No	:WO 2022/032008
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)RAO, Jaya

2)FREDA, Martino

3)HOANG, Tuong

4)DENG, Tao

(57) Abstract :

System(s), method(s), and device(s) for addressing new radio (NR) sidelink latency and protocols. A relay wireless transmit receive unit (WTRU) may be configured to relay information between a remote WTRU and the network. Certain rules, parameters, thresholds, and/or configurations may be used to control and/or reduce latency. In one example, the remote WTRU may send a message to the relay WTRU indicating parameters for data to be relayed; and the relay WTRU may send a message to the network regarding the same.

No. of Pages : 54 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007931 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : MULTI-CARRIER BASED NEW RADIO VEHICLE COMMUNICATIONS WITH SIDELINK

(51) International classification :H04L 5/00
(31) Priority Document No :63/062704
(32) Priority Date :07/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/044871
Filing Date :06/08/2021
(87) International Publication No :WO 2022/032050
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)ZHANG, Guodong
3)SVEDMAN, Patrick
4)LI, Yifan
5)ADJAKPLE, Pascal
6) TSAI, Allan
7)AWADIN, Mohamed

(57) Abstract :

Cross scheduling of a component earner for vehicle sidelink communications may be achieved by explicit configuration, implicit configuration, or a combination thereof. A user equipment, UE, may be configured with a resource pool configuration, for example, pertaining to multiple resource pools, resource group partitions, and/ or component carrier groups. The UE may be configured to use fields such as a Carrier Indication Field and/or a Carrier Group Indication Field contained in a Physical Sidelink Control Channel, PSCCH. The UE may use the resource pool configuration in combination with where the UE is able to decode the PSCCH, with or with the C1F and/or CG1F, to determine a scheduled Component Carrier, CC, for sidelink communications.

No. of Pages : 47 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007932 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : BEAM-BASED CHANNEL ACCESS METHODS AND SYSTEMS FOR SUPPORTING NEW RADIO ABOVE 52.6 GHZ

(51) International classification	:H04W 56/00
(31) Priority Document No	:63/062661
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.S.A.
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(57) Abstract :

Methods for flexible signal and channel transmission for increasing channel access opportunities and mitigating interference for supporting NR from 52.6GHz and above are disclosed. Indication of RMSI CORESET/PDCCH and PDSCH SCS are proposed. A scheme to improve performance, decrease latency and reduce power consumption is also disclosed. And more efficient rate matching is proposed for the frequency range from 52.6 GHz and above.

No. of Pages : 51 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007934 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : 5G MULTICAST-BROADCAST SERVICES (MBS) RADIO ACCESS NETWORK ARCHITECTURE AND OPERATION

(51) International classification	:H04W 4/06
(31) Priority Document No	:63/061764
(32) Priority Date	:05/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044652
Filing Date	:05/08/2021
(87) International Publication No	:WO 2022/031915
(61) Patent of Addition to Application Number	:NA
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(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

Methods and apparatuses are described herein for 5G MBS operation. The proposed method and procedures overcome the limitations that have been observed in LTE and UTRAN MBMS operation, address the unique characteristic of 5G NR, and meet the requirements set out by the envisioned 5G MBS use cases by providing functions including RAN xcasting area concepts that are flexible and dynamic, MBS radio bearer (MRB) types to support MBS services, RAN architectures to support the various MBS radio bearer types, as well as functionality split across the RAN nodes to support these radio bearers, procedures to allow radio bearer selection, monitoring, and switching, and procedures to allow xcast area management.

No. of Pages : 81 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044972 A

(19) INDIA

(22) Date of filing of Application :05/08/2022

(43) Publication Date : 02/06/2023

(54) Title of the invention : COMPOSITIONS FOR REMOVING NECROTIC OR INFECTED TISSUES FROM BODY SURFACE LESIONS

(51) International classification	:A61K 31/185, A61K 31/10, A61P 17/02, A61P 31/00, A61P 31/04	(71)Name of Applicant : 1)DEBX MEDICAL HOLDING B.V. Address of Applicant :Boompjes 40 3011 XB Rotterdam Netherlands
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)BIGNOZZI, Carlo Alberto
(33) Name of priority country	:NA	2)COGO, Alberto
(86) International Application No	:PCT/EP2020/051652	3)QUINT, Bertus Jozef
Filing Date	:23/01/2020	
(87) International Publication No	:WO 2021/148124	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A composition, usable for removing a biofilm and necrotic or infected tissues from a skin lesion, comprises ethanesulfonic acid or 1-propanesulfonic acid and a proton acceptor. The proton acceptor is selected from the group consisting of: dimethyl sulfoxide, silicon dioxide, tetraethoxysilane, and mixtures thereof. The aforesaid composition can be prepared in the form of a gel.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007891 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SLIDING MEMBER AND FLUID MACHINE

(51) International classification	:F16J 9/26, C08K 7/06, C08K 7/14, C08L 27/18, C08L 81/02	(71)Name of Applicant : 1)HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD. Address of Applicant :1-5-1, Sotokanda, Chiyoda-ku, Tokyo 1010021 Japan
(31) Priority Document No	:2021-055927	(72)Name of Inventor :
(32) Priority Date	:29/03/2021	1)SAITO Hayate
(33) Name of priority country	:Japan	2)NARISAWA Nobuyuki
(86) International Application No	:PCT/JP2021/044108	
Filing Date	:01/12/2021	
(87) International Publication No	:WO 2022/209007	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a sliding member having excellent wear resistance. The sliding member 12, which contacts a sliding surface 13, includes: a first member 12a configured from a first material, which contains a first matrix resin configured from a non-fluorine resin, and fluorine resin particles and rod-shape particles dispersed in the first matrix resin; and a second member 12b arranged adjacently with the first member 12a along the sliding surface 13 and configured from a second material, which contains a second matrix resin configured from a fluorine resin, and a strengthening agent dispersed in the second matrix resin.

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007897 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : SEPARATOR FOR WASTEWATER SYSTEM

(51) International classification	:C02F 1/00, B01D 29/56, B01D 35/16, E03C 1/26
(31) Priority Document No	:20200816
(32) Priority Date	:10/07/2020
(33) Name of priority country	:Norway
(86) International Application No	:PCT/NO2021/050162
Filing Date	:06/07/2021
(87) International Publication No	:WO 2022/010361
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

A separator for separating objects from a liquid flow in a pipe system is disclosed. The separator has a separator housing (4) and at least one filter in the form of a plurality of filter structures (29, 32) extending into the separator housing. The separator may be used in e.g. a vacuum sewage system, a water supply system, 5 or a pipe system for wastewater.

No. of Pages : 12 No. of Claims : 22

CONTINUED TO PART- 2