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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.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

2nd APRIL, 2021

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**THE PATENT OFFICE
KOLKATA, 02/04/2021**

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2	<p>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>	5	<p>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>❖ Rest of India</p>
3	<p>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>		

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www.patentoffice.nic.in

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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 02/04/2021

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

<p>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</p>	<p>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</p>
<p>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, दावर और नगर हवेली.</p>	<p>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</p>
<p>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</p>	

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.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

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:

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911040414 A

(19) INDIA

(22) Date of filing of Application :04/10/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR TRANSFERRING DATA PACKETS OVER NETWORK SECURELY

(51) International classification	:H04L0029060000, G06F0003060000, H04L0029080000, G06F0013380000, H04L0012403000	(71)Name of Applicant : 1)Cutting Edge Digital Private Limited Address of Applicant :33, First Floor, Navjeevan Vihar, New Delhi - 110017, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)LAHORIA, Rahul
(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 :

According to an aspect, the present disclosure provides a method for enhancing rate of transfer of data packets over network, the method includes: receiving, by a data management device configured in a master node, input operation details associated with an input request from a first node, the input operation details referencing a file-block data; identifying, by the data management device, a set of second nodes by comparing the referenced file-block data with a dataset comprising plurality of file-block data files segmented into a plurality of segments such that the plurality of segments of each of the plurality of file-block data files is distributed over a plurality of second nodes; responsive to the identified set of second nodes, transferring, by the data management device, a set of data packets pertaining to the plurality of segments of the referenced file-block data from the identified set of second nodes to the first node, wherein transmission of the plurality of segments of the plurality of file-block data files from the plurality of second nodes facilitates enhancing rate of transmission of the set of data packets.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040213 A

(19) INDIA

(22) Date of filing of Application :17/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : KHAMIRA HARIALEELADI A STABLE HERBAL FORMULATION FOR PROPHYLAXIS AND THERAPEUTICS OF NEURO-MUSCULAR ASSOCIATED COMPLICATIONS

(51) International classification	:A61B0005000000, A61K0031702000, A61K0031352000, A61K0036410000, A61K0036889000	(71) Name of Applicant : 1)LALIT RAJ SINGH Address of Applicant :DEPARTMENT OF MEDICINAL PLANTS SCIENCES, DEV SANSKRITI VISHWAVIDYALAYA, GAYATRIKUNJ-SHANTIKUNJ, HARIDWAR (UTTARAKHAND), INDIA. Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)LALIT RAJ SINGH
(33) Name of priority country	:NA	2)PROFESSOR (Dr.) KARAN SINGH
(86) International Application No	:NA	3)RUPAM
Filing 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 stable Unani herbal formulation named as ~Khamira Harialeeladi™ which is administered orally for prophylaxis and therapeutic purposes. The product is a novel composition used in atopic dermatitis, type I (CRPS), urticaria, fibromyalgia, and polymyalgia rheumatica. Specially, the present invention provides processing method and formula for fabricating the product while keeping in view of pathophysiology and etiology diseases/ disorders along with the optimum efficacy of the product. The invention relates to extraction of genuine plant materials, synergistic combinations, and processed as per the protocol of Unani Pharmacopoeia of India. The invention is versatile and commercially applicable across the world for the promotion of quality of life in neuro-muscular and autoimmune associated complications of a person/patient and the well-being of society as a whole.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111007397 A

(19) INDIA

(22) Date of filing of Application :22/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DELIVERING LOCATION INFORMATION BETWEEN A CALLING PARTY AND A CALLED PARTY

(51) International classification	:G06F0003048400, H04W0004029000, A63F0013323000, G01S0005000000, G01C0021000000	(71) Name of Applicant : 1)Deskotel Communications Private Limited Address of Applicant :G-20, LGF, Sector 63, Noida - 201301, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BANSAL, Kaushal
(33) Name of priority country	:NA	2)KUMAR, Rajesh
(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 pertains to a system for delivering location information between a calling party and a called party can including a processor (202), communicatively coupled to a first mobile computing device (106), and a second mobile computing device (110). The first mobile computing device (106), and the second mobile computing device (110) can include a set of sensors configured to determine location of the first mobile computing device (106), and the second mobile computing device (110). The processor (202) can be configured to determine a first displayable location code and a second displayable location code and facilitates transmitting and displaying the first displayable location code to the second mobile computing device (110), and the second displayable location code to the first mobile computing device (106) in online mode. The system (102) can be configured to display the first displayable location code and the second displayable location code in form of audio, text, pop up.

No. of Pages : 39 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111008858 A

(19) INDIA

(22) Date of filing of Application :03/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NOTETOR

(51) International classification	:G06F0008200000, C07K0016100000, G06K0009000000, G06Q0050200000, G06F0001160000	(71) Name of Applicant : 1)Furkan Ahmad Khan Address of Applicant :14/13 nawab compound, civil line, Kanpur, uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Furkan Ahmad Khan
(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 :

Notetor is a invented software design and process to make everyone educated, healthy and wealthy around the world. According to this invention people will create digital notebook to ask question, answer, send messages, invite, like, view, archive, utilize scientific keyboard, innovate, invest, share, discuss over notebook pages globally for getting and giving education, health and wealth around the world.

No. of Pages : 30 No. of Claims : 5

(54) Title of the invention : A NOVEL METHOD OF IMPLEMENTING ATTRIBUTE-BASED ENCRYPTION SCHEME IN IOT ENVIRONMENT BASED ON BLOCKCHAIN TECHNOLOGY

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04L0009300000, H04L0029060000, H04L0009080000, H04W0004700000, H04L0029080000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. BRAHMDUTT BOHRA Address of Applicant :Research Scholar Department of Computer Science Engineering, Career Point University, National Highway 12, Alaniya, Rajasthan- 325003 Rajasthan India</p> <p>2)Dr. SURENDRA YADAV</p> <p>3)Mr. BHANU BHUSHAN PARASHAR</p> <p>4)Mr. AMIT KUMAR SINGH</p> <p>5)Mr. NIKHIL RANJAN</p> <p>6)Mr. MANISH CHOUBISA</p> <p>7)Mr. MANISH DUBEY</p> <p>8)Mr. MANISH MATHURIA</p> <p>9)Dr. ANAND SHARMA</p> <p>10)Ms. SONAL SHUKLA</p> <p>11)Ms. DILPREET KAUR ARORA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. BRAHMDUTT BOHRA</p> <p>2)Dr. SURENDRA YADAV</p> <p>3)Mr. BHANU BHUSHAN PARASHAR</p> <p>4)Mr. AMIT KUMAR SINGH</p> <p>5)Mr. NIKHIL RANJAN</p> <p>6)Mr. MANISH CHOUBISA</p> <p>7)Mr. MANISH DUBEY</p> <p>8)Mr. MANISH MATHURIA</p> <p>9)Dr. ANAND SHARMA</p> <p>10)Ms. SONAL SHUKLA</p> <p>11)Ms. DILPREET KAUR ARORA</p>
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(57) Abstract :

In recent years a data owner-centered model appeared in the literature for the protection of personal data. Recently, the attribute-based encryption scheme (ABE) is a means viable to improve privacy in many areas such as applications e-health but also for smart home applications and more generally in the Cloud Computing environment. In addition, to secure data transmission and storage, ABE provides detailed access control and flexible data sharing. However, ABE schemes involve mapping operations and resource-intensive exponentiations, knowing that their complexity increases linearly with the number of attributes. Currently, even though efficient implementations of ABE schemes can be implemented on classic equipment (PC, server, etc.), this is not always the case for devices with resource limitations (sensors, mobile devices and IoT, for example). To provide a solution to this problem, an ABE outsourcing is proposed, thereby proving the viability of this concept. Thus, we present a deportation scheme for heavy ABE calculations with better encryption performance and feasibility in an environment Internet of things. This encryption scheme is integrated into a security protocol decentralized blockchain-based.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111010830 A

(19) INDIA

(22) Date of filing of Application :15/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FORMULATION AND CHARACTERIZATION MICROEMULSION OF POORLY WATER SOLUBLE DRUG

(51) International classification	:G01N0033680000, A61K0009160000, A61K0009107000, A61K0038130000, A61K0009140000	(71) Name of Applicant : 1)Prabhakar Vishvakarma Address of Applicant :Department of Pharmacy, Bhagwant University, Sikar road, Ajmer, Rajasthan, India, 305001 Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Prabhakar Vishvakarma
(33) Name of priority country	:NA	2)Dr. K. Saravanan
(86) International Application No	:NA	3)Dr. Saurabh 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 :

In recent years a data owner-centered model appeared in the literature for the protection of personal data. Recently, the attribute-based encryption scheme (ABE) is a means viable to improve privacy in many areas such as applications e-health but also for smart home applications and more generally in the Cloud Computing environment. In addition, to secure data transmission and storage, ABE provides detailed access control and flexible data sharing. However, ABE schemes involve mapping operations and resource-intensive exponentiations, knowing that their complexity increases linearly with the number of attributes. Currently, even though efficient implementations of ABE schemes can be implemented on classic equipment (PC, server, etc.), this is not always the case for devices with resource limitations (sensors, mobile devices and IoT, for example). To provide a solution to this problem, an ABE outsourcing is proposed, thereby proving the viability of this concept. Thus, we present a deportation scheme for heavy ABE calculations with better encryption performance and feasibility in an environment Internet of things. This encryption scheme is integrated into a security protocol decentralized blockchain-based.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011035 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD TO IDENTIFY FETAL GROWTH BY USING ARTIFICIAL INTELLIGENCE

(51) International classification	:A61B0008080000, H04N0005278000, H05B0045220000, H04N0021854700, G06T0007620000	(71) Name of Applicant : 1)Mr. Prateek Singhal Address of Applicant :2/111, Jankipuram Vistor , Sector-2, Sitapur Roads, Lucknow, Uttar Pradesh, India, 226031 Uttar Pradesh India 2)Dr. Prabhat Kumar Shrivasa
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Prateek Singhal
(33) Name of priority country	:NA	2)Dr. Prabhat Kumar Shrivasa
(86) International Application No	:NA	3)Dr. Ram Kumar
Filing Date	:NA	4)Dr. Nripendra Dwivedi
(87) International Publication No	: NA	5)Dr. Pawan Singh
(61) Patent of Addition to Application Number	:NA	6)Mr. Vishwadeepak Singh Baghela
Filing Date	:NA	7)Mr. Bhupendra
(62) Divisional to Application Number	:NA	8)Dr. Baseem Khan
Filing Date	:NA	

(57) Abstract :

The present invention provides a method for automatically identify fetal growth by using artificial intelligence. The method may include receiving fetal related information in the form of video data. Multiple frames can be generated from the video data to measure fetal length, thereby, comparing the measured length with preset threshold to identify fetal growth abnormality.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011466 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : VALORIZATION OF WASTE OBTAINED FROM OIL EXTRACTION OF MORINGA OLEIFERA SEEDS

(51) International classification	:C02F0001000000, C02F0003340000, C02F0009000000, G06Q0099000000, C02F0101300000	(71) Name of Applicant : 1)DR.PANCKAJ GARG Address of Applicant :Jayoti Vidyapeeth Women TM s University, Vedaant Gyan Valley, Village-Jharna, Mahala Jobner Link Road, Jaipur Ajmer Express Way, NH-8, Jaipur-303122, Rajasthan (INDIA) Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR.PANCKAJ GARG
(33) Name of priority country	:NA	2)Krutika V. Shenmare
(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 dairy business is perhaps the biggest wellspring of wastewater beginning from food handling ventures. The dairy effluents are not generally connected with major a natural issue, which mostly comprises of solvent organics, follow organics and suspended solids. All means in the dairy business, including creation, preparing, bundling, transportation, stockpiling, circulation and advertising, greatly affect climate. (Strydom, Mostert, & Britz, 1993). Dairy handling squanders contains natural substances like proteins, starches and lipids, high organic oxygen interest (BOD) and synthetic oxygen interest (COD), high nitrogen focus, high suspended oil and additionally oil substance, and huge varieties in pH, which requires treatment prior to releasing to limit ecological issues. Dairy wastewater removal typically brings about one of three issues: (a) high treatment demands being charged by nearby experts for modern wastewater; (b) pollution may be caused when untreated wastewater is either released into the climate or utilized straightforwardly as water system water; and (c) dairy plants that have just introduced an oxygen consuming organic framework are confronted with the issue of slime removal. As the dairy business are significant water clients and is a contender for wastewater treatment and reuse. In house wastewater treatment the executives decreases squander age at the source, in this manner assists diminishing with costing or improves downstream handling offices.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011479 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : BONE CEMENT INJECTING DEVICE WITH AIR AND BODY FLUIDS REMOVAL MECHANISM

(51) International classification	:A61B0017880000, A61F0002460000, A61F0002300000, B01F0015000000, A61F0002380000	(71) Name of Applicant : 1)Swami Rama Himalayan University Address of Applicant :Swami Ram Nagar, Jolly Grant Dehradun Uttarakhand India Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Vijendra D. Chauhan
(33) Name of priority country	:NA	2)Chandra S. Nautiyal
(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 bone cement injecting device is disclosed. The bone cement injecting device comprises a cylindrical body (3) coupled with a tube (2), wherein the cylindrical body (3) and the tube (2) form a syringe; a barrel (1) surrounding the tube (2) at a predefined gap, wherein the barrel (1) has a tip and the tip of the barrel is positioned at a predefined distance above a tip of the tube (2) and a suction tube (4) connected to the barrel to apply a negative suction pressure and is positioned at the proximal portion of the barrel just below the cylindrical body (3) and the barrel has a perforated wall (6) at its lower end. The bone cement injecting device acts as a bone cement filler and a device that excludes air and body fluids using minimally invasive management of loosening of prosthetic component attributed to fractures in bone cement that is weakened by its porosity, thereby strengthening the bone cement.

No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111011482 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ELECTRICAL IMPEDANCE BASED DATA ACQUISITION SYSTEM FOR IMAGING APPLICATIONS

(51) International classification	:A61B0005053000, A61B0006000000, A61B0006030000, A61B0005000000, G01N0027040000	(71) Name of Applicant : 1)Mr. Raj Kumar Yadav Address of Applicant :Engineering College Ajmer Rajasthan India 2)Dr. Shashank Tripathi 3)Dr. Aditya Kumar Singh Pundir 4)Dr. H.S. Mewara 5)Dr. Ramesh Kumar
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr. Ramesh Kumar 2)Dr. H.S. Mewara 3)Dr. Aditya Kumar Singh Pundir 4)Dr. Shashank Tripathi 5)Mr. Raj Kumar 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 :

A Low Cost Data Acquisition & Medical Imaging System has been proposed using Electrical Impedance Tomography. The system could investigate & analyse the output image retrieved from electrical conductivity distribution of a test-object or phantom. The image reconstruction was performed using a modified reconstruction algorithm. The experimental setup of the proposed system mainly consists of convertible 16/8/4 electrodes (which are attached to the circumference of a phantom (Stomach)), A precise Constant Current Source (Milli Ampere Current with KHz frequency) for providing current which passed into the boundary of an object through a different pair of electrodes. The output of electrodes acquired as voltage that measured from the boundary of the conductive object of other electrodes pair and fed into a computer for the appropriate computing of the acquired data. The image reconstruction block then performs the reconstruction of the cross-sectional image based on resistivity. For effective image reconstruction it requires sufficient data collection from the EIT system, which is based on Finite Element Method (FEM) and Jacobean Matrix Approach FEM method. The developed system could be controlled through GUI interface provides the user easy and effective way and interface for the image reconstruction. It could also be used both in offline or online mode. The System performance was checked with number of phantom models simulating human subjects as well as different physical object. The results obtained from different data acquisition methods were comparable and better in terms of sensitivity and functionality.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012450 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A TACTILE SMART WATCH FOR VISUALLY IMPAIRED

(51) International classification	:G06F0003010000, G09B0021000000, G06F0003048800, G06F0003041000, G06F0003160000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VISHWARAJ SRIVASTAVA
(33) Name of priority country	:NA	2)SIDDHARTHA PANDA
(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 haptic tactile smart watch for the visually impaired is provided. The tactile smart watch comprises a watch case having a tactile digital interface. One or more tactile push buttons are configured on an outer circumference of the watch case. The one or more tactile push buttons activate one or more functions associated with the tactile smart watch. One or more touch sensitive indicators receive one or more touch inputs from a user input. Each of the one or more touch sensitive indicators generate one or more haptic feedback in response to the one or more touch inputs. A sensing module receives electrical signals corresponding to the identified specific actions from the one or more touch sensitive indicators, and senses one or more application parameters based on the received one or more electrical signals. The one or more application parameters are communicated, via haptic feedback, numerically to the user using touch sensitive indicators.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012479 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD TO GENERATE ARBITRARY CHIRP SIGNAL BY APPROXIMATED PARABOLIC SHAPED MICROWAVE SIGNAL

(51) International classification	:H04B0010500000, H04L0027120000, H04B0010516000, H04B0010251300, H01Q0015140000	(71)Name of Applicant : 1)Mr. Ritesh Kumar Address of Applicant :PhD Scholar, Indian Institute of Technology (Indian School of Mines) Dhanbad & ASSISTANT PROFESSOR, Electronics & Communication Engineering Department, Madan Mohan Malaviya University of Technology GORAKHPUR, UP- 273010 INDIA Uttar Pradesh India
(31) Priority Document No	:NA	2)Prof. Sanjeev Kumar Raghuwanshi
(32) Priority Date	:NA	3)Mr. Deepak Kumar
(33) Name of priority country	:NA	4)Dr. Satish Chandra
(86) International Application No	:NA	5)Mr. Yadvendra Singh
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Mr. Ritesh Kumar
(61) Patent of Addition to Application Number	:NA	2)Prof. Sanjeev Kumar Raghuwanshi
Filing Date	:NA	3)Mr. Deepak Kumar
(62) Divisional to Application Number	:NA	4)Dr. Satish Chandra
Filing Date	:NA	5)Mr. Yadvendra Singh

(57) Abstract :

The present disclosure relates to a system and method to generate arbitrary chirp signal by an approximated parabolic shaped microwave signal. A photonic technique is proposed for the generation of an arbitrary chirp microwave signal without using any external source of chirp signal. This has been done by generating an approximated parabolic-shaped signal of power -36dBm and 2GHz frequency by externally modulating optical carrier signal and filtering through optical band pass filter. In the generation of parabolic shaped signal only two harmonics is considered, and their coefficient ratio is maintained by adjusted modulation index of external modulator by properly setting its bias voltage. Then, electrically detected parabolic shaped signal is used to frequency modulate another optical signal followed by the phase modulation. Finally, phase modulated signal is observed as an arbitrary chirp microwave signal at photodetector. The generated arbitrary chirped microwave signal has maximum power of -39.6dBm at 2GHz.

No. of Pages : 39 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012483 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A CONCEPTUAL FRAMEWORK FOR ENHANCING HR EFFICIENCY THROUGH ARTIFICIAL INTELLIGENCE INTEGRATION METHOD

(51) International classification	:G06Q0010060000, A61K0048000000, B01J0037080000, G06F0003048200, B01J0031220000	(71) Name of Applicant : 1)Sharda University Address of Applicant :Plot No. 32, 34, Knowledge Park III, Greater Noida, Uttar Pradesh 201310 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Parul Saxena
(33) Name of priority country	:NA	2)Ms Indira Priyadarsani Pradhan
(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 :

AI has emerged as a new technology to handle an enormous amount of data. Study suggests that only 38% of Indian Organisation implemented AI in their business process. Still there is a gap of 62% in implementation of AI. This model proposes the need for integration of AI specifically with HR functions. HR a support function has long been considered as technologically sleazy and challenged. This framework will provide a way forward to improve the effectiveness of HR process though its integration with artificial intelligence, Further, this model will provide a process and a method to enhance the use of artificial intelligence with specific to HR functions.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012489 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FRAMEWORK FOR IMPROVING QUALITY OF WORK-LIFE OF NURSES

(51) International classification :A61B0005160000,
G09B0019000000,
G16H0010200000,
G09B0007020000,
H04M0003460000

(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)Sharda University
Address of Applicant :Plot No. 32, 34, Knowledge Park III,
Greater Noida, Uttar Pradesh 201310 Uttar Pradesh India

(72)**Name of Inventor :**
1)Dr Parul Saxena
2)Ms Shivani Sharma

(57) Abstract :

Promotion and implementation of Emotional Intelligence (EI) training programs could benefit nurses to deal with stressful situations (such as work-overload arising due to various situations), and are of practical help for thriving. Our framework, supports the concepts of self-awareness, self-regulation, mindfulness, positive thinking and motivational training for envisaging the utility of EI for the nurses and individuals mostly in jobs high in emotional labour, where task-induced stress would be most exacerbated.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012502 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SWITCH ASSEMBLY FOR AN AUTOMATIC GEAR TRANSMISSION SYSTEM

(51) International classification	:G05G0001100000, E05B0001000000, H01H0003500000, A61N0007020000, F16H0059080000	(71) Name of Applicant : 1)Mindarika Private Limited Address of Applicant :Village Nawada Fatehpur, P.O. Sikanderpur Badda, Manesar, Distt. Gurgaon, Haryana 122004, India Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ARORA, Arun Kumar
(33) Name of priority country	:NA	2)JINDAL, Manoj Kumar
(86) International Application No	:NA	3)GUPTA, Dinesh Chandra
Filing Date	:NA	4)MISHRA, Chandra Bhushan
(87) 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 switch assembly for an automatic gear transmission system is disclosed. The switch assembly includes a housing member and a switching unit. The switching unit includes a first switching knob adapted to be moved in a vertical direction. The switching unit includes a rotary knob adapted to be rotated with respect to the first switching knob. The switching unit includes a second switching knob disposed adjacent to the rotary knob and adapted to be moved in the vertical direction with respect to the housing member. The switch assembly includes a PCB assembly adapted to be in communication with the first switching knob, the rotary knob and the second switching knob. A plurality of passages is defined in the housing member and between the first switching knob and the rotary knob to divert a flow of fluid away from the PCB assembly.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012591 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM FOR SECURITY ENHANCEMENT IN STORAGE, IMAGES, CAPABILITIES OVER A CLOUD INFRASTRUCTURE STORAGE

(51) International classification	:H04L0029060000, G06F0021340000, G06F0003120000, G06F0021360000, G06Q0020340000	(71) Name of Applicant : 1)DEEPIKA SAXENA Address of Applicant :102/79 ,TILAK MARG ,PATEL MARG ,MANSAROVAR ,JAIPUR IIS Deemed to be UNIVERSITY,,JAIPUR GURUKUL MARG,SFS,MANSAROVAR,JAIPUR 302020 Rajasthan India
(31) Priority Document No	:NA	2)Dr. NAVNEET SHARMA
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)DEEPIKA SAXENA
(86) International Application No	:NA	2)Dr. NAVNEET 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 :

The present invention discloses a system for security enhancement in a cloud storage infrastructure and method thereof. The system includes, but not limited to, a processing system in a computer network that includes at least one hardware processor, the processing system configured to perform: image verification for an online executable storage means, checking capabilities of the online executable storage means, port security and storage selection. Further, the resulting features after performing image verification of an online executable storage means, checking capabilities of the online executable storage means, port security and storage selection are used to authentication of stored images, accessing method, Man-in-the-middle attack (MITM) attacker interfaces and drivers.

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012694 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NANOEMULSION BASED ORAL LIQUID COMPOSITION OF HERBAL EXTRACT FOR TREATMENT OF IRRITABLE BOWEL DISEASES

(51) International classification	:A61K0009000000, A61K0009107000, A61K0047260000, A61K0036235000, A61K0036185000	(71) Name of Applicant : 1)Dr Ali Mofleh Z Alshahrani Address of Applicant :Department of Clinical Pharmacy, College of Pharmacy, Taif University,P.O. BOX: 888, Haweiah 21974 Saudi Arabia Saudi Arabia
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr Ali Mofleh Z Alshahrani
(33) Name of priority country	:NA	2)Dr Abuzer Ali
(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 oral liquid composition containing nanoemulsion of herbal extract for the treatment of irritable bowel diseases. Herbal extract of fennel, anise, chamomile, linseed, pomegranate fruit peel was incorporated in nanoemulsion. Herbal extract was used as oil phase, PEG as surfactant, Tween 80 as co-surfactant and benzalkonium chloride was used as preservative in the nanoemulsion.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012714 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PROCESS FOR FABRICATING PANI-CSA BASED TEMPERATURE SENSOR AND A PRODUCT THEREOF

(51) International classification	:C08G0073020000, G01N0033840000, B05D0007000000, G01K0013000000, G01K0007220000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DEVENDRA KUMAR MAURYA
(33) Name of priority country	:NA	2)SIDDHARTHA PANDA
(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 process for fabricating camphorsulfonic acid doped polyaniline (PANI-CSA) based temperature sensor is provided. The process includes wet-on-dry (WOD) two-layer coating method for fabricating the PANI-CSA based temperature sensor. The WOD two-layer coating enhances the sensing layer-electrode interface coverage and thus helps in resolving the high resistance issues and improves the yield of the PANI-CSA based temperature sensor. The invention also provides PANI-CSA based temperature sensor with minimum room temperature resistance (R25) variation, high sensitivity, great flexibility, high accuracy, and exceptional durability for body-temperature measurement applications.

No. of Pages : 19 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012748 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : OBJECT IDENTIFICATION SYSTEM FOR BLIND PEOPLE

(51) International classification	:G06K0009000000, G06K0009620000, G06K0009460000, G06K0009200000, A61F0009080000	(71)Name of Applicant : 1)Dr. Sreelatha P Address of Applicant :Associate Professor, Department of Biomedical Engineering, KPR Institute of Engineering and Technology, Arasur, Tamil Nadu, India Pin: 641407 Tamil Nadu India 2)Dr. K. Hussain 3)Dr. Josephine Selvi Balamourougane 4)Dr. P. Iyappan 5)Dr. Tasneem Bano Rehman 6)Dr. Ravichandran Krishamoorthy 7)Dr. S. Chandra Sekaran 8)Mr. Vishal Ravichandran 9)Dr. T. Subramani 10)Dr. C. Bala Subramanian
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Sreelatha P 2)Dr. K. Hussain 3)Dr. Josephine Selvi Balamourougane 4)Dr. P. Iyappan 5)Dr. Tasneem Bano Rehman 6)Dr. Ravichandran Krishamoorthy 7)Dr. S. Chandra Sekaran 8)Mr. Vishal Ravichandran 9)Dr. T. Subramani 10)Dr. C. Bala Subramanian
(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 :

The present disclosure is related to the object Identification System which will be helpful for the Blind People. Eye is one of the most wanted human sense organ, and it plays a critical part in human understanding of the surroundings. As a result, thousands of articles have been written on these topics, proposing a wide range of machine vision products and programs for the creation of modern technological aids for the blind. The aim of this invention is to present a suggested system for restoring a core feature. The invention proposes a visual replacement method for blind people dependent on object detection in a video scene in this innovation. For target recognition, this invention employs SIFTS key point extraction and feature matching. The experimental results show that the proposed invention works well in identifying the objects in the video.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012813 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD FOR SYNTHESIS OF CARBON NANO ONIONS (CNOS)

(51) International classification	:B82Y0040000000, B82Y0030000000, C11C0005000000, A23N0015080000, A61K0008060000	(71) Name of Applicant : 1)VERMA, Rajesh Kumar Address of Applicant :Principal Investigator (UPCST-Project) and Associate Professor, Department of Mechanical Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur, Uttar Pradesh - 273010, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VERMA, Rajesh Kumar
(33) Name of priority country	:NA	2)KHARWAR, Prakhar Kumar
(86) International Application No	:NA	3)KUMAR, Jogendra
Filing Date	:NA	4)KESARWANI, Shivi
(87) International Publication No	: NA	5)VISHWAKARMA, Rahul
(61) Patent of Addition to Application Number	:NA	6)KUMAR, Kuldeep
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to the field of synthesis of carbon nano onions. Specifically, the present disclosure relates to a method for synthesis of carbon nano onions from candle wax comprising beeswax and tallow.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012942 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DISPOSABLE BAG

(51) International classification	:B65F0001060000, B65F0001000000, B65F0001160000, B65F0001140000, B30B0009300000	(71) Name of Applicant : 1)Dr. Alok Gupta Address of Applicant :626-Jawahar Colony ,New Mandi ,Muzaffarnagar, Uttar Pradesh, india, 251001 Uttar Pradesh India 2)Tripti Gupta
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Alok Gupta
(33) Name of priority country	:NA	2)Tripti 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 disposable bags and, more specifically, to trash bags to be taken out of the trash container and replaced with a fresh one. This invention removes the problem of hunting the new bag to replace the used trash bag. It also saves precious time. The concept of use of bellow type bag provides the trash bag to be compressed and positioned in the bottom part of the trash container. Such shape provides optimum space utilization. The trash bag is designed like a below. Here the term bellow is associated with a flexible bag whose volume can be changed by compression or expansion. These bags will be piled in the lower portion of the container. Once the top bag gets filled, it is dragged out of the container and further separated from the adjacent trash bag just attached with it.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : DESIGN OF CROSS-LAYER ROUTING PROTOCOL FOR MULTIMEDIA TRANSFER OVER WIRELESS NETWORKS

(51) International classification	:H04L0029080000, H04W0040020000, H04W0028240000, H04L0012715000, H04L0012240000	(71) Name of Applicant : 1)Dr. Mahendra Prasad Sharma Address of Applicant :Associate Professor & HOD, Dept. of IT, IIMT College of Engineering, Plot No 20 A KP-3, Greater Noida-201306, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	2)Dr. Pushpender Sarao,
(32) Priority Date	:NA	3)Dr. Sanjay Pachauri,
(33) Name of priority country	:NA	4)Dr. Ridhima Grover
(86) International Application No	:NA	5)Roopali Gupta
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)Dr. Mahendra Prasad Sharma
(61) Patent of Addition to Application Number	:NA	2)Dr. Pushpender Sarao,
Filing Date	:NA	3)Dr. Sanjay Pachauri,
(62) Divisional to Application Number	:NA	4)Dr. Ridhima Grover
Filing Date	:NA	5)Roopali Gupta

(57) Abstract :

This invention is related to a novel design of routing protocol that exploits cross-layer approach for optimization of multimedia content dissemination over wireless networks. It assumes importance in the emergence of cloud based dissemination of multimedia objects over wireless media. Wireless networks became ubiquitous and widely used in all kinds of domains. In fact, usage of wireless networks became indispensable in the contemporary era. The invention has different modules such as Cross Layer Module, Fuzzy Inference Module, Overhead Reduction Module and Content Dissemination module. These modules help in realizing high Quality of Service (QoS) and high Quality of Experience (QoE) so as to improve the multimedia content dissemination that is highly regarded as the requirement of the present day. It has mechanisms to improve routing efficiency, reduce control overhead in routing process and minimize energy consumption while routing. Besides, it improves QoS and QoE in order to satisfy mobile users who get multimedia content over wireless networks. This invention is advantageous to different stakeholders such as multimedia content providers, users across the globe, researchers and academia.

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : A SYSTEM FOR ANALYSING MINERAL AND GAS PRODUCTION USING MACHINE LEARNING / AI INTERFACES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06N0020000000, G06N0003080000, G06N0003040000, G05B0013020000, G06N0003000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Deepak Dudeja Address of Applicant :Research Scholar, Ct University, Ludhiana, Punjab, India Computer Science & Applications Punjab India</p> <p>2)Mr. Dipra Mitra</p> <p>3)Dr. Sandeep Aggarwal</p> <p>4)Mrs Gavini Sreelatha</p> <p>5)Dr. Abhijit Chakraborty</p> <p>6)Mrs. Sudeshna Sani</p> <p>7)Dr. T.C.Manjunath</p> <p>8)Dr. Pavithra G.</p> <p>9)Dr. Manjula Sanjay Koti,</p> <p>10)Chandra Prakash Verma</p> <p>(72)Name of Inventor :</p> <p>1)Deepak Dudeja</p> <p>2)Mr. Dipra Mitra</p> <p>3)Dr. Sandeep Aggarwal</p> <p>4)Mrs Gavini Sreelatha</p> <p>5)Dr. Abhijit Chakraborty</p> <p>6)Mrs. Sudeshna Sani</p> <p>7)Dr. T.C.Manjunath</p> <p>8)Dr. Pavithra G.</p> <p>9)Dr. Manjula Sanjay Koti,</p> <p>10)Chandra Prakash Verma</p>
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(57) Abstract :

This invention provides a system for analysing mineral and gas production using Machine Learning / AI interfaces. The system includes, but not limited to, an implanted plurality of sensors to sense various predefined mining and a gas production land, a processing unit to receive input from the sensors and further processing, accordingly, a Machine Learning / AI user interface based on a deep learning method to analyse and providing simulation data to a simulator machine and further analysing mineral detected area on a mainframe. Further, the mainframe is connected with simulators for further simulation of the received data for analyzing and performing quantitative analysis for the desired minerals.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013174 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR IDENTIFYING VULNERABILITIES AND SECURITY RISKS IN AN APPLICATION

(51) International classification	:G06F0021570000, G06F0011360000, H04L0029060000, B32B0007120000, G01R0031300000	(71) Name of Applicant : 1)HCL Technologies Limited Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mahesh K
(33) Name of priority country	:NA	2)Srinivas T
(86) International Application No	:NA	3)Narender S
Filing Date	:NA	4)Chandrasekar V
(87) International Publication No	: NA	5)Syed Rahman
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure relates to method (300) and system (100) for identifying vulnerabilities and security risks in an application. The method (300) includes receiving (302) application data from the application and a set of test configuration parameters from a user. The set of test configuration parameters includes set of vulnerability scan parameters and set of security test parameters. The method includes identifying (304) a set of vulnerabilities in the application data through at least one scanning technique. The method includes identifying (306) a set of security risks in the application data using a security test framework upon identifying the set of vulnerabilities and adding (308) each of the set of vulnerabilities and the set of security risks to a list of threats associated with the application. The method further includes identifying (310) set of valid threats and set of false positive threats from the list of threats using a debugging tool.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013177 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CATALYST FOR OXYGEN REDUCTION REACTION FOR FUEL CELLS AND METHOD OF MANUFACTURING SAME

(51) International classification	:H01M0004900000, H01M0004880000, H01M0004960000, H01M0008101800, H01M0004920000	(71) Name of Applicant : 1)Indian Institute of Technology, Kanpur Address of Applicant :Dean, Research & Development, Room Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur - 208016 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KAR, Kamal Krishna
(33) Name of priority country	:NA	2)TYAGI, Alekha
(86) International Application No	:NA	3)SINGH, Sri Niwas
Filing 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 making a non-precious metal/carbon hybrid for pH-universal oxygen reducing cathode catalyst, the method comprising (a) mixing a carbon source with a transition metal precursor in a specific molar ratio to form a metal precursor loaded carbon substrate free of precious metals and (b) introducing a gas template inducing compound to the metal precursor loaded carbon substrate in a specific molar ratio thereby forming oxygen reducing cathode catalyst; wherein the introducing a gas template inducing compound assists to polymerize of the carbon source to achieve the porous thin doped graphitic sheets-like morphology without the high-temperature carbonization step.

No. of Pages : 37 No. of Claims : 8

(54) Title of the invention : IOT BASED WEARABLE STRESS LEVEL DETECTOR

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61B0005000000, A61B0005024000, A61B0005160000, A61B0005020500, A61M0021000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Pritee Parwekar Address of Applicant :Associate Professor, Department of Computer Science & Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus, Delhi-MeerutRoad,Modinagar,Ghaziabad-201204, UP, Personal phone no: 9354877129 Email ID: priteep@srmist.edu.in Uttar Pradesh India</p> <p>2)Ms. Shikha Agarwal</p> <p>3)Dr. Lalit Kumar Saraswat</p> <p>4)Dr. Archana Sharma</p> <p>5)Mr. Dipraj</p> <p>6)Mr. Gaurav Gupta</p> <p>7)Mr. Anil Kumar Gupta</p> <p>8)Mr. Rahul Singh</p> <p>9)Mr. Dharmbeer Singh</p> <p>10)Dr. Aanjey Mani Tripathi</p> <p>11)Mr. Anurag Singh</p> <p>12)Mr. Sandeep Vishwakarma</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Pritee Parwekar</p> <p>2)Ms. Shikha Agarwal</p> <p>3)Dr. Lalit Kumar Saraswat</p> <p>4)Dr. Archana Sharma</p> <p>5)Mr. Dipraj</p> <p>6)Mr. Gaurav Gupta</p> <p>7)Mr. Anil Kumar Gupta</p> <p>8)Mr. Rahul Singh</p> <p>9)Mr. Dharmbeer Singh</p> <p>10)Dr. Aanjey Mani Tripathi</p> <p>11)Mr. Anurag Singh</p> <p>12)Mr. Sandeep Vishwakarma</p>
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(57) Abstract :

Psychological stress is related with a diversity of major chronic health syndromes and cardiovascular diseases and quantitatively measuring stress aids in stress management, which is vital to preserving a low stress level. Conservatively, there are two types of psychological stress: acute stress and chronic stress. Acute stress is considered by quick changes in the autonomic nervous system that equipped the body for fight or flight • responses to external stimuli. Chronic stress is considered by protracted acquaintance to stressful stimuli which leads to long-term sympathetic overactivity. This invention brings a device for detecting and controlling the human stress. Wearable devices have freshly established substantial attention due to their great potential for a plethora of applications. Increased research energies are concerned towards a non-invasive monitoring of human health as well as activity parameters. A wide range of wearable sensors are being established for real-time non-invasive monitoring. The galvanic sensor and heart rate sensors are used to identify human stress level and heart beat level. Using IR LED (9000nm 12000nm) light allows light energy to penetrate one to three inches into your muscle tissue. Your muscles use the energy to create their own heat, which causes them to relax naturally. There™s no better way to achieve that kind of relaxation. An IOT (internet of things) collects sensors data to display in web page.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013251 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SWEAT ABSORBING ELASTOMERIC GLOVES

(51) International classification	:A41D0019000000, A41D0019015000, B65D0083080000, A63B0071140000, A41D0031120000	(71) Name of Applicant : 1)Akhil Singhal Address of Applicant :#5319 St No. 6 Malviya Nagar Bathinda 151001 Punjab India 2)Henu Singhal
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Akhil Singhal
(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 disposable elastomeric gloves with moisture-absorbing characteristics. A sweat-absorbing layer is arranged on the rear inner layer of the glove body. The protruding ridges of the layer extend vertically on the inner circumferential face of the glove to cover the back of the palm from fingers to wrist. Thus, the sweat drying speed inside the gloves is improved with the increase in comfort to users during prolonged usage. The present invention provides a glove that can reduce a humid feeling during long usage to the user while maintaining the gripping ability. The novel idea causes a minimal increase in production cost as compared to conventional disposable gloves.

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

(54) Title of the invention : CONVERSION OF SUGARCANE LEAVES INTO USEFUL PRODUCTS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A01D0045100000, C05F0005000000, C13B0010020000, A23K0010330000, C13B0020160000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Kartikay Bisen Address of Applicant :Assistant Professor, Faculty of Agricultural Sciences and Allied Industries, Rama University, Rama City, Mandhana, Kanpur, Uttar Pradesh 209217 Ph: 9838215431 Email : kartikaybisen@rediffmail.com Uttar Pradesh India</p> <p>2)Dr. Aneeta Yadav</p> <p>3)Dr. Suhel Mehandi</p> <p>4)Dr. Ashwani Kumar Verma</p> <p>5)Vinay Joseph Silas</p> <p>6)Dr. Atul Yadav</p> <p>7)Dr. Dhirendra Kumar</p> <p>8)Dr. Manish Kumar Yadav</p> <p>9)Dr Surendra Kumar</p> <p>10)Dr. Harshita Bisht</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Kartikay Bisen</p> <p>2)Dr. Aneeta Yadav</p> <p>3)Dr. Suhel Mehandi</p> <p>4)Dr. Ashwani Kumar Verma</p> <p>5)Vinay Joseph Silas</p> <p>6)Dr. Atul Yadav</p> <p>7)Dr. Dhirendra Kumar</p> <p>8)Dr. Manish Kumar Yadav</p> <p>9)Dr Surendra Kumar</p> <p>10)Dr. Harshita Bisht</p>
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(57) Abstract :

Sugarcane plays a significant role in the development of the nation since it is the most popular crop in the world. It gives many products in the form of solid, liquid and gases such as chocolate, jockey, sugar cane juice, molasses, baggese and sprit. The above said items are used widely for making many products. The sugarcane can have a minimum height of 3m and leaf length of 1.5 m around the stem. These crop residues result after harvesting in the form of leaves, stem and shelves which are portrayed as coarse plant by- products and big size, chemically low in protein and fat contents. Also, it is high in lignin and cellulose contents. The problem of sugarcane leaves waste becomes very obvious and aggregated after the harvest of summer crops. The cultivation of sugarcane in the tropical regions is carried out in summer seasons only. At this time of the season, the farmer is in a rush to re-cultivate the land. Therefore, to get rid of the wastes has the highest priorities, usually has been done by burning process. This method burning not only is considered an economic loss but it has harmful effects on the environment which leads to air pollution. These harmful effects produce the emission of poisonous gases such as (N, S, CO, CO₂) to the air which reduces the microbial activities in the soil. In addition, storing these wastes in the field after compacting may make it a suitable environment for the reproduction and growth of pests and pathogens that will attack new crops. Therefore, utilization of sugarcane leaves in any other environmentally friendly way is very important. These can be done by i) Conversion of coarse leaves into finer leaves by using manually operated self-propelled vehicle. ii) Fine leaf particles on addition with certain natural substances can be used to make organic manure for the sugarcane cultivation

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013296 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : WATER TANK EXHAUST COOLER

(51) International classification	:F24F0007020000, B60K0015040000, F25D0031000000, F28D0001060000, G06F0001200000	(71) Name of Applicant : 1)Akhil Singhal Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda Punjab India 2)Henu Singhal
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Akhil Singhal
(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 :

Disclosed is a water tank cooling apparatus that is annexed with an exhaust system powered from a photovoltaic power source. The Exhaust system comprises a cooling fan and a roof ventilator that are coupled together and work in accordance to dissipate heat from within the tank. The water tank cooling apparatus rests at the opening of the water tank wherein the apparatus is constructed around the water tank cap. The water tank cap has a stand positioned on its outline that allows the solar board to be positioned over the cap. The exhaust system is built in between the said cap wherein the roof ventilator is positioned at the peak of the apparatus and the cooling fan at the bottom of the cap aligned with the mouth of the water tank.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013530 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD OF MOLECULAR STRUCTURE RECOGNITION OF CYCLODEXTRINS

(51) International classification	:H01L0051000000, G01R0033460000, B82Y0005000000, C08B0037160000, C09K0011060000	(71) Name of Applicant : 1)Mangalayan University Address of Applicant :Extended NCR 33rd Milestone, Aligarh-Mathura, Highway, Beswan Aligarh Uttar Pradesh India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Harish Saraswat
(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 an analytical method which uses NMR Spectroscopy and Molecular Modeling Studies data for rapid molecular structure/function pattern recognition for developing novel therapeutic molecules. The results of the NMR MM, HOMO-LUMO gap and molecular docking studies demonstrates that the CPL molecule forms a stable inclusion complex with -CD in the liquid state. The molecular docking studies revealed preferential binding of aromatic ring of CPL during -CD:CPL inclusion complexation. These findings may raise the possibility of industrial applications developing novel therapeutic molecules targeting such complexes.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013531 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND ELECTRONIC DEVICE FOR DETERMINING STRENGTH OF DOUBLE LAYERED STIRRUP CONFINED CONCRETE

(51) International classification	:G01N0033380000, E04C0003340000, H04L0012580000, B28C0007020000, G01N0003120000	(71) Name of Applicant : 1)Mangalayan University Address of Applicant :Extended NCR 33rd Milestone, Aligarh-Mathura, Highway, Beswan Aligarh Uttar Pradesh India Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Mahesh 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 :

Accordingly, embodiments herein disclose a method for determining a strength of a double layered stirrup confined concrete. The method includes determining, by an electronic device (200), an effective lateral pressure exerted on concrete specimens by reinforcing stirrups associated with the double layered stirrup confined concrete. Further, the method includes determining, by the electronic device (200), a lateral confining pressure on the double layered stirrup confined concrete based on the determined effective lateral pressure exerted on the concrete specimens. Further, the method includes determining, by the electronic device (200), the strength of the double layered stirrup confined concrete based on the lateral confining pressure on the double layered stirrup confined concrete.

No. of Pages : 16 No. of Claims : 2

(54) Title of the invention : A MICROBIAL CONSORTIUM FOR TREATMENT OF INDUSTRIAL WASTEWATER AND A METHOD THEREFOR

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:C12N0001120000, C02F0003320000, C12N0001200000, C12N0001140000, C12P0039000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Pankaj Kumar Singh Address of Applicant :R.D Engineering College 8th km milestone from Ghaziabad National Highway(NH) no. 58, Delhi- Meerut Expressway, Duhai Ghaziabad Uttar Pradesh INDIA 201206 Uttar Pradesh India</p> <p>2)Sanjeev Singh</p> <p>3)Avinash Dwivedi</p> <p>4)Ravi Shankar Singh</p> <p>5)Sanjay Paliwal</p> <p>6)Vrunda Karve</p> <p>7)Rajdev Tiwari</p> <p>8)Reema Kohli</p> <p>9)Jyoti Sharma</p> <p>10)Rashmi singh</p> <p>11)G.L Tiwari</p> <p>(72)Name of Inventor :</p> <p>1)Pankaj Kumar Singh</p> <p>2)Sanjeev Singh</p> <p>3)Avinash Dwivedi</p> <p>4)Ravi Shankar Singh</p> <p>5)Sanjay Paliwal</p> <p>6)Vrunda Karve</p> <p>7)Rajdev Tiwari</p> <p>8)Reema Kohli</p> <p>9)Jyoti Sharma</p> <p>10)Rashmi singh</p> <p>11)G.L Tiwari</p>
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(57) Abstract :

The present disclosure relates to a microbial consortium for treatment of industrial wastewater, and a method therefor. The consortium includes an inoculation of a filamentous fungus, and at least one green microalga deployed into industrial wastewater. The filamentous fungus is *Aspergillus niger* and the microalgae is *Chlorella vulgaris*. Spores of each of the consortium are of size in the range of 1.0E5/L to 1.2E9/L. The consortium further includes nanoparticles/nanomaterials, and/or combinations thereof. The consortium is deployed into industrial wastewater in forms selected from a group consisting of a sachet, a powder, a liquid, a spray, fumes, a gas, and so on.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013605 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MODULAR SIDE-VIEW MIRROR

(51) International classification	:B60R0001060000, E21F0001000000, B60R0001120000, E21F0005200000, A61L0009120000	(71) Name of Applicant : 1)Akhil Singhal Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda 151001 Punjab India 2)Henu Singhal
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Akhil Singhal
(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 :

Disclosed is a water removal system for a side-view mirror assembly where inside the side-view mirror holder is an air flow tunnel. Air flows into the air intake channel present at the bottom of the mirror holder. The water stopper bump restricts the water droplets from getting into the air tunnel. The air tunnel is designed such that the air is directed upwards to the air outlet channel. The narrow path at the air outlet region directs the air downwards with pressure over the rearview mirror. This results in water droplets getting pushed downwards, thereby rendering the side-view mirror clear and suitable for use. In an alternate embodiment, the invention may be assisted by the plurality of fans placed in the air flow passage to the air inlet. The present invention is capable of being installed all sorts of vehicles with side-view mirrors.

No. of Pages : 26 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013768 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : UTILIZATION OF AGRICULTURAL WASTE IN PREPARATION OF CEMENT STABILIZED EARTH BLOCKS FOR LOW-COST HOUSING

(51) International classification	:C04B0028040000, C02F0001280000, E02D0029020000, C04B0018100000, C04B0014060000	(71) Name of Applicant : 1)Dr. Rishav Garg Address of Applicant :Galgotias College of Engineering and Technology, Plot 1, Knowledge Park II, Greater Noida Uttar Pradesh, India. PIN [201307] Uttar Pradesh India 2)Dr. Rajni Garg 3)Dr. Tinku Biswas 4)Er. Manish Kaushal 5)Er. Anuj Sachar
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Rishav Garg
(33) Name of priority country	:NA	2)Dr. Rajni Garg
(86) International Application No	:NA	3)Dr. Tinku Biswas
Filing Date	:NA	4)Er. Manish Kaushal
(87) International Publication No	: NA	5)Er. Anuj Sachar
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Utilization of agricultural waste for preparation of Cement stabilized earth blocks for low-cost housing describes about the composition of an earth block which contains sugarcane bagasse ash (SBA) [001], rice husk ash (RHA) [002], wheat straw ash (WSA) [003] which is mixed with, gravel [004], fine particles [006], sand [005], Portland cement [008] and water [007] as a binder. The mixture produced is converted to earth block after curing for 28 days. The soil (gravel [004], fine particles [006] and sand [005]), locally accessible and classed as medium sized clay, was investigated for its properties and optimised for inclusion. During processing, the soil was blended with Portland cement [008] and different dosage of SBA [001], RHA [002] & WSA [003]. The addition of SBA, RHA and WS improved the block compression and substantially increased water absorption, while still meeting the standard BIS code criterion.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013793 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SELFIE MASK SMART ATM VENDING MACHINE

(51) International classification	:G07F0011000000, G07F0017000000, G06T0019000000, G07F0017260000, G07F0009020000	(71)Name of Applicant : 1)Dr. Himani Mittal Address of Applicant :D-028 Telecom City Sector 62, Noida, Uttar Pradesh Uttar Pradesh India 2)Anshu Gupta 3)Arpita Gupta 4)Himanshu Tripathi 5)Shivansh Shrish Tripathi 6)Aahan Agarwal
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Himani Mittal 2)Anshu Gupta 3)Arpita Gupta 4)Himanshu Tripathi 5)Shivansh Shrish Tripathi 6)Aahan 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 :

A vending machine is an automated machine that provides items such as snacks, beverages, cigarettes and lottery tickets to consumers after cash, a credit card, or a specially designed card is inserted into the machine. Here in this invention, smart ATM vending machines can on the spot face masks (selfie as well as a designer) according to the specifications given. Augmented reality works in a real-time environment in your physical world for giving a live experience of things and the feel of it happening in front of you. This vending machine can be used at airports, railway stations and other public places. This machine can be used for exact face value masks with face replica and as well as customized designs. A camera with LiDAR technology is used to calculate the exact size of the mask.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013882 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ROBOT ASSISTED BATTERY INTERCHANGING SYSTEM FOR ELECTRIC VEHICLES

(51) International classification	:B25J0009160000, B60L0053300000, B25J0009000000, G05D0001020000, B25J0005000000	(71)Name of Applicant : 1)Ashok Kumar Yadav Address of Applicant :Department of Mechanical Engineering, Raj Kumar Goel Institute of Technology, Ghaziabad (UP) - 201003, India Uttar Pradesh India 2)Mukesh Kumar 3)Prashant Kumar Srivastava 4)Ashish Dewangan 5)Osama Khan 6)Sameen Khan 7)Rajeev Kumar 8)Mahesh Kumar Dewangan 9)Shatrughan Singh
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Ashok Kumar Yadav 2)Mukesh Kumar 3)Prashant Kumar Srivastava 4)Ashish Dewangan 5)Osama Khan 6)Sameen Khan 7)Rajeev Kumar 8)Mahesh Kumar Dewangan 9)Shatrughan 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 present invention relates to system and method for automatic repairing/maintenance of an electric vehicle (EV). The EV can be placed on a platform of a service station, wherein the EV can move horizontally or vertically to adjust position of EV. On placement of EV, an automated guided vehicle (AGV) can inspect the EV by using a sensor unit. The processor of AGV analyzes sensor data to determine fault (e.g., battery replacement is required) and activate a multi-axis robotic arm to perform repairing work. The multi-axis robotic arm comprises a gripping tool to hold/capture one or more workpiece (e.g., wrench) for repairing purpose and performs repairing task (i.e., replacement of battery)

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

(54) Title of the invention : BLUE MARLIN FISH CAUDAL FIN INSPIRED BLADE DESIGN FOR HORIZONTAL AXIS TIDAL TURBINES

(51) International classification	:F03B0013260000, F03B0003120000, H02J0003380000, B63H0001360000, G06F0111100000	(71) Name of Applicant : 1)Dr. Siddharth Suhas Kulkarni Address of Applicant :67 Hopstone Road, Selly Oak, Birmingham, B29 5RE, England. E-mail:drsidd10@hotmail.com Uttar Pradesh India
(31) Priority Document No	:NA	2)Prof. Craig Chapman
(32) Priority Date	:NA	3)Prof. Hanifa Shah
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:PCT//	1)Dr. Siddharth Suhas Kulkarni
Filing Date	:01/01/1900	2)Prof. Craig Chapman
(87) International Publication No	: NA	3)Prof. Hanifa Shah
(61) Patent of Addition to Application Number:		
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Our Invention Blue Marlin fish caudal fin inspired blade design for horizontal axis tidal turbines is a Tidal current power generation offers a prospect of renewable energy which is predictable, and has lower CO2 emissions than traditional energy generation sources. It also has the potential to fulfil a significant part of the energy requirements of the world. In this present invention a method to design a novel horizontal axis tidal turbine (HATT) blade shape through bio-mimicking a curved caudal fin shape to produce improved power coefficient is presented. At first, a parametric HATT is modelled according to the literature, where a centreline is then inserted which also acts as the master and a novel third order polynomial function was integrated on the centreline to model the Blue Marlin fish caudal fin look-alike target shape HATT. Secondly, a design strategy to move the curved blade backwards to the straight blade was also developed. Thirdly a Computational Fluid Dynamics (CFD) analysis is conducted to test the overall power efficiency of the caudal fin shaped blade with the standard HATT models in the literature. Finally, after comparing the improved efficiency of the bio-mimicked curved blade with the standard HATT models in the literature, it can be proved that bio-mimicking the caudal fin look-alike blade produces a higher power coefficient than the standard HATT blade.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021005342 A

(19) INDIA

(22) Date of filing of Application :06/02/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : BATTERY LIFE MANAGEMENT SYSTEM AND METHOD

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)MIT ACADEMY OF ENGINEERING Address of Applicant :Dehu Phata, Alandi (D), Pune, Maharashtra Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Borse Rushikesh
(33) Name of priority country	:NA	2)Shah Mohanish
(86) International Application No	:NA	3)Kumbhar Pradeep
Filing 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 :

Described herein is a battery life management system and method. The system includes at least one control circuit 202 for determining a charging requirement of a battery depending upon the condition of said battery 106; and at least one cut-off module 204 for electrically disconnecting said battery 106 from a battery charger 104 when said battery 106 is fully charged. Depending upon the current condition of the battery 106, it is first determined whether charging of the battery 106 is required or not. Once fully charged, the battery is electrically disconnected from a battery charger 104. Simultaneously, the display condition, such as normal condition, overcharging condition and undercharging condition, of the battery 106 is displayed by a display indicator 206. REFER FIGURE 2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021010812 A

(19) INDIA

(22) Date of filing of Application :13/03/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : ELECTROMECHANICAL SYSTEM FOR SEGREGATION AND RECOVERY OF PLASTIC FROM SAND BEACH

(51) International classification	:E01H0012000000, A61B0090000000, C12Q0001689500, B29B0017020000, E02B0003040000	(71)Name of Applicant : 1)RATHOD SURENDRA Address of Applicant :SARDAR PATEL INSTITUTE OF TECHNOLOGY, MUNSHI NAGAR, BHAVAN'S CAMPUS, ANDHERI (WEST), MUMBAI - 400058,MAHARASHTRA INDIA. Maharashtra India 2)HALDANKAR GOVIND 3)BHAT BHARADWAJ 4)BATH TEJVEER SINGH 5)DHAR GOPALA 6)BHATTACHARJEE SOUMYADEB 7)MAINIKAR YASH 8)GOKHALE RUTUJA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)RATHOD SURENDRA 2)HALDANKAR GOVIND 3)BHAT BHARADWAJ 4)BATH TEJVEER SINGH 5)DHAR GOPALA 6)BHATTACHARJEE SOUMYADEB 7)MAINIKAR YASH 8)GOKHALE RUTUJA
(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 ELECTROMECHANICAL SYSTEM FOR SEGREGATION AND RECOVERY OF PLASTIC FROM SAND BEACH The invention is a system that is designed to segregate and recover single use plastic materials which are obtained from the topsoil of beaches. The said invention incorporates electrical and mechanical components working in cohesion with each other to achieve the end goal of plastic waste management. The plastic waste along with sand is the required input of the said invention and its output is plastic fragments and granules which are apt for further recycling. This invention is capable of perpetually depositing sand and other organic materials onto the topsoil of beaches in situ, while accumulating the plastic fragments obtained from the process in the recovery unit of the said invention. The design and structure of the whole invention makes it possible to be used in situ, on the beach itself, which benefits the logistical costs of operation. The invention is one of its kind, which can process not only dry sand embedded in single used plastic, but can also segregate moist sand and mud blended with the said plastic material. This novel invention is best suited for cleaning plastic waste from the coast lines of a beach, while recovering the same plastic for further recycling.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021020202 A

(19) INDIA

(22) Date of filing of Application :13/05/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PURAN MAKING MACHINE

(51) International classification :G01N0033533000,
H05B0031000000,
B01J0020286000,
C02F0003280000,
B63C0007260000

(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)MIT Academy of Engineering
Address of Applicant :Dehu Phata, Alandi (D), Pune,
Maharashtra, India Maharashtra India

(72)**Name of Inventor :**
1)Hatte Prafulla Ratnakar
2)Dhokte Atharva Atul
3)Sakhalkar Ganesh Krishnat
4)Parkor Sumit Vasant

(57) Abstract :

Described herein is an apparatus 100 for crushing a boiled and cooked puran material into a fine grade crushed puran. The apparatus 100 includes at least one hopper 1 for feeding the boiled and cooked puran material, at least one pair of rollers 7 suitably spaced apart from each other and configured to crush the boiled and cooked puran material entering from the hopper 1, and at least one pair of gears 3 for setting the at least one pair of parallelly located crushing members 7 in motion to perform the crushing operation. The pair of parallelly located crushing members 7 defines a gap for transferring the crushed puran and not the boiled and cooked puran material to a collecting unit 6. The present subject matter ensures that the crushing of puran to appropriate texture is possible. REFER FIGURE 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021044859 A

(19) INDIA

(22) Date of filing of Application :15/10/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : A HYBRID SYSTEM WITH SWITCH OVER TECHNIQUE FOR TWO WHEELER VEHICLES

(51) International classification	:B60K0006540000, F02D0041380000, B60L0050600000, H01M0016000000, B60H0001320000	(71)Name of Applicant : 1)MAHINDRAKAR ASHWINKUMAR Address of Applicant :C-503, HIGHWAY BLISS SOCIETY, AMBEGAON, PUNE-411046 Maharashtra India 2)THORAT SUMEET SUDHIR 3)DESAI RUTURAJ VITTHAL 4)GANTA DEVYANI VENKATRAO 5)ALANGE SUSHANT
(31) Priority Document No	:NA	(72)Name of Inventor : 1)MAHINDRAKAR ASHWINKUMAR 2)THORAT SUMEET SUDHIR 3)DESAI RUTURAJ VITTHAL 4)GANTA DEVYANI VENKATRAO 5)ALANGE SUSHANT
(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 :

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021052712 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR A SECURE IMPACT-CHAIN PLATFORM

(51) International classification	:A61B0017880000, H04K0003000000, H04N0019467000, G06F0021570000, G06T0001000000	(71) Name of Applicant : 1)Peopleteck Delta Impactchain Private Limited Address of Applicant :Plot 62, Group III, Sector 15, Kopar Khairane, Navi Mumbai 400709, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Saurabh Gupta
(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 METHOD AND SYSTEM FOR A SECURE IMPACT-CHAIN PLATFORM The present invention directed toward a method and system for a secure impact-chain platform, the method (200) comprising step of registration of one or more first devices (102a) associated with fund investors (302), registration of one or more second devices (102b) associated with social organizations (402), storing the registration data along with associated fund investors (302) and social organizations (402), in a data repository (108), receiving funding data related to transactions between fund investors (302) and social organizations (402) from one or more first devices and one or more second devices, generating a smart contract (510) between one or more first devices and one or more second devices involved in the transactions, verifying and monitoring the smart contract based on one or more parameters; and notifying one or more first devices and one or more second devices upon fulfilment or non-fulfilment of one or more parameters as per the verification. Representative Figure 2

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021057003 A

(19) INDIA

(22) Date of filing of Application :29/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : GROUND IMPROVEMENT TECHNIQUE USING INDIGENOUS BACTERIA FOR BIOCEMENTATION OF EXPANSIVE SOIL SUBGRADES

(51) International classification	:C12N0001200000, E02D0003120000, C04B0028100000, C04B0111000000, C09K0017020000	(71) Name of Applicant : 1)Indian Institute of Technology Indore Address of Applicant :Khandwa Road, Simrol, Indore - 453552, India Madhya Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Neelima Satyam
(33) Name of priority country	:NA	2)Nitin Tiwari
(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 Ground Improvement Technique using Indigenous Bacteria for Biocementation of Expansive Soil Subgrades The Invention relates to new method for controlling swelling shrinkage nature of expansive soil. The Invention provides ground improvement technique with environment friendly, less invasive and durable materials and which are sustainable, less energy-consuming, economical, and environmentally friendly.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121003854 A

(19) INDIA

(22) Date of filing of Application :28/01/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SUPPRESSOR FOR UNMANNED COMBAT AERIAL VEHICLE

(51) International classification	:B64C0039020000, B64D0047080000, F41A0021320000, F41A0021300000, B01J0037080000	(71) Name of Applicant : 1)PATIL PRATHMESH RAJESH Address of Applicant :492 SOUTH KASBA, NEAR OLD VITHAL TEMPLE, SOLAPUR, 413007 Maharashtra India 2)PATIL GAYATRI RAJESH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PATIL PRATHMESH RAJESH
(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 SUPPRESSOR FOR UNMANNED COMBAT AERIAL VEHICLE The present invention relates to a suppressor [100] for unmanned combat aerial vehicle. The proposed invention specially designed for unmanned combat aerial vehicle or drone. Present suppressor [100] is fit to handgun which is attached to the drone. After firing the shot the drone or unmanned combat aerial vehicle will experience very less force exerted on it due to recoil of the gun. The present suppressor provides different layers or path for gas flowing. Due to the different layers of suppressor the partial gas will get blow out in forward and partial gas will blow in reverse direction and this will cancel out each otherTMs effect and recoil will get reduced. The present suppressor consists of a five parts and wherein the assembly and disassembly can be done manually. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121007145 A

(19) INDIA

(22) Date of filing of Application :19/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NOVEL PROCESS FOR THE PREPARATION OF SOLIFENACIN

(51) International classification	:C07D0453020000, C07D0403100000, A61K0047100000, A61K0031472500, C07C0051410000	(71)Name of Applicant : 1)Raju Ramchandra Kale Address of Applicant :Organic Chemistry Research Centre, Department of Chemistry, K.T.H.M. College, Gangapur Road, Shivaji Nagar, Nashik- Maharashtra India 2)Balkrishna Ramchandra Kale 3)Virendra Prasad 4)Bhausahab Baban Muntode 5)Vikram Appasaheb Dhare 6)Vishwas Bhaskar Gaikwad, 7)Nitin Kalyanrao Jadhav
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Raju Ramchandra Kale 2)Vikram Appasaheb Dhare 3)Nitin Kalyanrao Jadhav 4)Virendra Prasad 5)Vishwas Bhaskar Gaikwad, 6)Balkrishna Ramchandra Kale 7)Bhausahab Baban Muntode
(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 novel method for the preparation of solifenacin by reacting (1S)-1-phenyl- 1,2,3,4-tetrahydroiso quinoline of formula (V) and allyl chloroformate or benzyl chloroformate to form 1-((S)-3,4-dihydro-1-phenylisoquinolin-2(1H)-yl)prop-2-en-1-one or (S)-benzyl 3,4-dihydro-1-phenylisoquinoline-2(1H)-carboxylate; and treating 1-((S)-3,4-dihydro-1-phenylisoquinolin-2(1H)-yl)prop-2-en-1-one or (S)-benzyl 3,4-dihydro-1-phenylisoquinoline-2(1H)-carboxylate with quinuclidin-3-ol to form Solifenacin base, which is then converted into its pharmaceutically acceptable salts. The present invention provides an improved synthetic strategy for the preparation of solifenacin and pharmaceutically acceptable salts thereof.

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121008394 A

(19) INDIA

(22) Date of filing of Application :28/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NOVEL MICROSPONGE LOADED GEL TO TREAT VARIOUS FUNGAL INFECTIONS

(51) International classification	:A61K0031496000, A61K0009000000, A61K0009700000, A61K0047320000, A61K0047100000	(71)Name of Applicant : 1)Ms. Prajakta Kailas Khule Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54, Gopalpur - Ranjani Road, Gopalpur Dist Solapur 413304. Maharashtra India 2)Dr. Babruvahan Pandurang Ronge 3)Dr. Ritu M. Gilhotra 4)Mr. Vrunal Vishwasrao More 5)Dr. Santosh Kumar Singh 6)Dr. Manojkumar Mukundrao Nitalikar
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ms. Prajakta Kailas Khule
(33) Name of priority country	:NA	2)Dr. Babruvahan Pandurang Ronge
(86) International Application No	:NA	3)Dr. Ritu M. Gilhotra
Filing Date	:NA	4)Mr. Vrunal Vishwasrao More
(87) International Publication No	: NA	5)Dr. Santosh Kumar Singh
(61) Patent of Addition to Application Number	:NA	6)Dr. Manojkumar Mukundrao Nitalikar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to transdermal delivery, of itraconazole. The work involves the drug Itraconazole which is antifungal. The micro sponge technology used to facilitate the controlled release of active drug into the skin in order to reduce the systematic exposure and minimize local cutaneous reactions of active drugs. The main objective of this work was to design and evaluate the gel formation of micro sponge entrapped Itraconazole to increase the effectiveness of the treatment.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121008652 A

(19) INDIA

(22) Date of filing of Application :02/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CARBONATED COLD PRESS JUICE AND NORMAL JUICE SODA

(51) International classification	:A23L0002020000, A47J0019060000, A47J0019000000, A23N0001020000, A61L0027120000	(71) Name of Applicant : 1)VIKHRAM SHANKAR SAXENA Address of Applicant :1702/B WING DLH ORCHID, 1ST CROSS LANE, LOKHANDWALA MARKET, ANDHERI (WEST), MUMBAI-400052, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VIKHRAM SHANKAR SAXENA
(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 CARBONATED COLD PRESS JUICE AND NORMAL JUICE SODA This invention pertains to a novel method of making carbonated cold press fruit juices and fruit juice blends. The method involves steps of (a) sanitizing the fruits; (b) obtaining juice from the sanitized fruits; (c) pasteurization at high pressure; (d) adding carbon dioxide in the juice in a carbonator machine; and (d) transferring the effervescent juice in a packaging container and sealing it. The carbonated cold press juice of the present invention has no added preservative, sugar, salt and flavors.

No. of Pages : 11 No. of Claims : 9

(54) Title of the invention : MAGNETIC REPULSION SYSTEM FOR VEHICLES

(51) International classification	:H01H0077100000, H05K0001030000, H02K0053000000, F04D0029058000, C09J0007380000	(71) Name of Applicant : 1)ROHIT SUNIL DENG Address of Applicant :BHAU MAHARAJ LANE, PUNE- 411002, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)ROHIT SUNIL DENG
(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: Present embodiments generally relate to the ground transportation system as an alternate source of transportation for fuel and electric cars. It is an alternate source of Power which can replace the fuel and electric engine, it works because of magnetic repulsion which in turn gives momentum to the ground vehicles. The basic components that will be used in this project are Neodymium magnets (NbFeB) N52 high grade 50.8mm (2.0) diameter x 50.8mm (2.0) thick x 50.8mm (2.0) wide cube magnets with a pull force of approximately 136 Kgs (300lbs), a Force extraction machine/ a Small Hydraulic Power press machine. The Neodymium (NbFeB) Magnets will be placed in the vehicles accordingly, one at the front side of the chassis and another at the back end of the chassis. The Force extraction machine/ Small Hydraulic Power Press Machine will be attached to the Neodymium magnet situated at the back chassis in such a way that when the machine is activated it will push the back magnet towards the front magnet to create a magnetic repulsion force that will in turn move the vehicle in the given direction. The wires of the machine will be attached to the accelerator, as in when the accelerator is pressed the machine will assert the back magnet towards front magnet and when the accelerator's force is removed the machine will retract the back magnet towards its original position thus eliminating the repulsion force.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121009047 A

(19) INDIA

(22) Date of filing of Application :04/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : APPARATUS AND METHOD FOR STUDYING ABSORPTION KINETICS OF CHEMICALS ACROSS EVERTED AND NORMAL INTESTINE PIECES OF LABORATORY ANIMALS

(51) International classification	:G01N0033500000, G01N0015080000, C12Q0001040000, A01K0001030000, G01N0005020000	(71)Name of Applicant : 1)Dr. Pankaj V. Dixit Address of Applicant :Department of Pharmacology, Indore Institute of Pharmacy, Rau-Pithampur Road, Indore (MP) 453331, India Madhya Pradesh India
(31) Priority Document No	:NA	2)Dr. Dinesh Kumar Mishra
(32) Priority Date	:NA	3)Dr. Sanjay Sharma
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)Dr. Pankaj V. Dixit
Filing Date	:NA	2)Dr. Dinesh Kumar Mishra
(87) International Publication No	: NA	3)Dr. Sanjay Sharma
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

APPARATUS AND METHOD FOR STUDYING ABSORPTION KINETICS OF CHEMICALS ACROSS EVERTED AND NORMAL INTESTINE PIECES OF LABORATORY ANIMALS. An apparatus for rapid estimation of compound absorption in a controlled environment that closely resembles in-vivo conditions. The apparatus is H-shaped, with two vertical hollow tubes attached by reliable horizontal support. The hollow tubes at one end are bulged to allow intestinal tissue to mount in the form of an un-everted or everted intestinal segment or tubular artificial membrane, and the other end is open to air covered with a lid and has a scope of introducing siliconized tube for air entry. After tissue mounting, the setup is put in a 250 ml vessel containing physiological salt solution, preferably but not limited to Krebs solution for easily dissolving compounds whose absorption study is to be performed. In the everted state, the inside of the apparatus, which also holds Krebs solution, serves as the mucosal compartment, and the outer side serves as the serosal compartment. 500-700 µl of serosal fluid is sampled every five minutes for one hour and analyzed for the compound of interest. The concentration is plotted against time to get a graphical representation of the data and then used to calculate apparent permeability. FIGURE 1

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121010389 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A TEST TUBE HOLDING TRIPOD DEVICE.

(51) International classification	:B01L0009060000, B21D0039040000, A61B0005020000, A61M0016060000, G01D0005140000	(71)Name of Applicant : 1)Mr. Rituraj Chandrakar Address of Applicant :Lecturer, Department of Mechanical Engineering, NMDC DAV Polytechnic, Shri Atal Bihari Vajpaye Education City, Jawanga, Geedam, South Bastar Dantewada (Chhattisgarh) INDIA PIN 494441. Chattisgarh India
(31) Priority Document No	:NA	2)Mr. Chhavikant Sahu
(32) Priority Date	:NA	3)Dr. Anil Kumar
(33) Name of priority country	:NA	4)Mr. Om Prakash
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mr. Rituraj Chandrakar
(87) International Publication No	: NA	2)Mr. Chhavikant Sahu
(61) Patent of Addition to Application	:NA	3)Dr. Anil Kumar
Number	:NA	4)Mr. Om Prakash
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The test tube holding tripod comprising a jaw for receiving test tubes of different diameters, comprising a ring to be secured in said hole and being provided with spring and others members extending from the ring towards the center axis of the ring to resiliently engage the outside of a test tube inserted into the insert. And also an elongated tubular member, elongated along a longitudinal axis, said tubular member having a first wall portion extending in the direction of said longitudinal axis and a first latch member formed on said first wall portion in which said pivot member having a second wall portion extending in the direction of said longitudinal axis and a second latch member formed on said second wall portion such that said first and second latch members are relatively moveable toward and away from each other in a radial direction with reference to said longitudinal axis jaw.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121010440 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATIC FOOTREST AND SIDE-STAND RETRIEVAL SYSTEM.

(51) International classification	:B62J0025000000, A61B0090000000, E05F0015730000, E05F0015611000, H01H0009160000	(71) Name of Applicant : 1)Akash Lagad Address of Applicant :Renuka Gulmohar, H-104, near hotel Keys, near old Mumbai-pune road, morwadi, pimpri, pune-18. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Akash Lagad
(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 footrest (regular and lady footrest) of the bike will be controlled (opened and closed automatically and manually) by a sensor-controller-actuator-feedback mechanism. For automatic opening and closing of the footrest a sensor (whichever used) will receive a signal when a pillion sits on the seat. This signal from the sensor will be sent to controller in analog form. Upon receiving the signal from the sensor, the controller will give an output signal to the actuator (whichever used) to open and close the footrest. The footrest can be opened and closed manually by a separate button input upon the will of the user (rider). The automatic and manual operation of the actuator to open and close the footrest can be overridden by a separate switch. Upon activating the switch, anyone of the operation will work i.e., sensor input or button input. Similar mechanism of sensor-controller-actuator-feedback will be used for side stand retrieval. The function of the feedback system is to check whether the desired motion has been achieved or not. The feedback system makes the complete system more accurate and reliable.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121011461 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN EFFICIENT CONTENT BASED REMOTE SENSING IMAGE RETRIEVAL USING ARTIFICIAL NEURAL NETWORK

(51) International classification	:G06F0016583000, G06N0003040000, G06K0009000000, G06N0003080000, G06N0003020000	(71)Name of Applicant : 1)MR. AMOLKUMAR N. JADHAV Address of Applicant :PADMABHOOSHAN VASANTRAODADA PATIL INSTITUTE OF TECHNOLOGY, BUDHGAON-SANGLI, MAHARASHTRA-416304, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	2)DR. DEEPAK SUDHAKAR DHARRAO
(32) Priority Date	:NA	3)MR. PRASAD VIJAYKUMAR PHALLE
(33) Name of priority country	:NA	4)MR. VITTHAL S. GUTTE
(86) International Application No	:NA	5)MR. MUKUND B. WAGH
Filing Date	:NA	6)DR. NANDKISHOR P. KARLEKAR
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number:	NA	1)MR. AMOLKUMAR N. JADHAV
Filing Date	:NA	2)DR. DEEPAK SUDHAKAR DHARRAO
(62) Divisional to Application Number	:NA	3)MR. PRASAD VIJAYKUMAR PHALLE
Filing Date	:NA	4)MR. VITTHAL S. GUTTE
		5)MR. MUKUND B. WAGH
		6)DR. NANDKISHOR P. KARLEKAR

(57) Abstract :

1. ABSTRACT: Remote sensing is being used in different fields like agriculture, research etc. Remote sensed images contain complex visual contents. This idea explains about the content based remote sensing image retrieval using ANN. In remote sensing method the sensors which will be fixed on an aircraft or satellite is used for capturing remote sensing images. Due to the increase in the use of remote sensing technology and also the number of satellites used, the volume of image dataset is increasing exponentially. Content Based Remote sensing Image Retrieval is used as to reduce the difficult in managing large volume of earth data.

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121012045 A

(19) INDIA

(22) Date of filing of Application :21/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A CYLINDRICAL AIR GAP MEMBRANE DISTILLATION SYSTEM

(51) International classification	:B01D0061360000, C02F0103080000, C02F0001440000, C02F0001040000, C02F0001160000	(71) Name of Applicant : 1)SHAHU, Vandita Thantharate Address of Applicant :MAA JAGDAMBA BHAVAN , GANDHIBAGH, NAGPUR, MAHARASHTRA, INDIA- 440002 Maharashtra India 2)THOMBRE, Shashikant B.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHAHU, Vandita Thantharate
(33) Name of priority country	:NA	2)THOMBRE, Shashikant B.
(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 CYLINDRICAL AIR GAP MEMBRANE DISTILLATION SYSTEM The present invention relates to a cylindrical air gap membrane distillation system. The proposed invention provides the novel cylindrical hollow copper condenser tube. The object of the invention is to utilize for purification or to recover the fresh water out of brackish water, sea water desalination, waste water, saline solution, sewage water, concentration of fruit juices. Following invention is described in detail with the help of figure 1 of sheet 1 showing CAGMD module assembly.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121012331 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : APPARATUS FOR PULLING AND SHREDDING PLANT STALKS

(51) International classification	:A01D0045020000, A01D0034835000, A63B0021000000, E03F0009000000, A01N0025340000	(71) Name of Applicant : 1)Abhishek Vilas Chaudhari Address of Applicant :At Post Moykheda Digar, Tal- Jamner, Dist- Jalgaon, 424206, Maharashtra, India Maharashtra India 2)Kalpesh Narendra Patil 3)Sanjay Shridhar Lakade 4)Priyanka Vilas Chaudhari
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Abhishek Vilas Chaudhari
(33) Name of priority country	:NA	2)Kalpesh Narendra Patil
(86) International Application No	:NA	3)Sanjay Shridhar Lakade
Filing Date	:NA	4)Priyanka Vilas Chaudhari
(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 :

APPARATUS FOR PULLING AND SHREDDING PLANT STALKS Abstract Disclosed is an apparatus (100) for pulling and shredding plant stalks. The apparatus (100) is customizable and allows flexibility of height and width adjustment as per the crop/plant to be pulled and shredded. The forward movement of the apparatus (100) and rotational motion of a plurality of pulling rollers (30) at an inclined angle applies the sufficient force for pulling out the plant stalks along with the roots from a ground. The apparatus (100) reduces labor work efforts due to mechanization. As the apparatus (100) pulls the plant stalk along with roots, accommodation of residue of pests and insects in the soil is prevented for example in case of cotton the apparatus (100) helps to prevent pink bollworm accommodation. Figure 1

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121012547 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD OF PRODUCING BIOCHAR BLOCKS FOR PURIFYING POLLUTED AQUACULTURE WATER

(51) International classification	:C10L0005440000, B09B0003000000, C10B0053020000, C05F0011020000, C02F0103000000	(71) Name of Applicant : 1)SHAIKH ANAM MARWAH MOHAMMAD NASIR Address of Applicant :Municipal Chawl No 03, Room No. 04, Near Ahlehadees Masjid, Tank Pakhadi Road, Agripada Byculla, Mumbai - 400011, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHAIKH ANAM MARWAH MOHAMMAD NASIR
(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 is in the field of converting agricultural biomass / biowaste into useful products. Specifically, the disclosure is directed to a method for converting a biowaste such as agricultural biomass / biowaste into biochar which can be used in the purification of polluted water. The disclosure also provides a method for producing biochar blocks, which can be used in the purification system. The method of the present disclosure overcomes the deficiencies in the art by employing low-cost raw materials such as economically viable agricultural biomass / biowaste.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121012572 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR POWERING AUXILIARIES BY POWER DERIVED FROM A COMPRESSOR-UNIT OF AN AIR-VEHICLE

(51) International classification :F02C0003107000,
F02C0007320000,
F01D0015120000,
F02C0007360000,
F02C0009180000

(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)Sarita Ganpat Idate
Address of Applicant :S.N.47/7A, Shree DattaNiwas, D-602,
Dattanagar, Ambegaon (Budruk), Pune-411046, Maharashtra,
India. Maharashtra India
2)Vishal Ganpat Idate
(72)**Name of Inventor :**
1)Vishal Ganpat Idate

(57) Abstract :

SYSTEM AND METHOD FORPOWERING AUXILIARIES BY POWER DERIVED FROM A COMPRESSOR-UNIT OF AN AIR-VEHICLE System (100) and method for powering auxiliaries by a compressor-unitTMs power that drives auxiliaries with high/intermediate power and low power compared to prior-arts that utilizes only low pressure.The system (100) includes a first drive shaft (10) of a high pressure compressor (01a), a second low pressure drive shaft (20) of a low pressure turbine (21), a third driven shaft (30) for driving the auxiliaries, a fourth low pressure driven shaft (40) for driving a low pressure compressor (01b) and a gearbox (50) disposed in between the high-pressure compressor (01a) and low-pressure compressor (01b) or intermediate compressor (01c) and low-pressure compressor (01b).The gearbox (50) transmits power between the first drive shaft (10) and the third driven shaft (30) and the second low pressure drive shaft (20) and the fourth low pressure driven shaft (40). (To be published with Figure 2)

No. of Pages : 26 No. of Claims : 6

(54) Title of the invention : INVESTIGATION OF DYNAMIC PROTEIN SYSTEM BASED ON MOLECULAR DYNAMICS SIMULATION

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G16B0015000000, G16C0010000000, G16C0020600000, C07K0007060000, G16B0035000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Vijay Ramkisan Lakwal,Nanasaheb Yashwantrao Narayanrao Chavan Art's, Science and Commerce College Address of Applicant :Assistant Professor, PG Department of Zoology, Nanasaheb Yashwantrao Narayanrao Chavan Art's, Science and Commerce College Chalisgaon Jalgaon Maharashtra India 424101 Maharashtra India</p> <p>2)Ms. Aishwarya Premsing Rajput,Dr. Babasaheb Ambedkar Marathwada University</p> <p>3)Dr. Mangesh Sheshrao Kharate,Vinayakrao Patil Mahavidyalaya</p> <p>4)Ms. Trupti Bhausaheb Namekar,Dr. Babasaheb Ambedkar Marathwada University</p> <p>5)Ms. Sweety Madhukar Salunke,Vinayakrao Patil Mahavidyalaya</p> <p>6)Dr. Pawankumar Sheshrao Kharate,Indira Gandhi Agriculture University</p> <p>7)Ms. Smita Sanjay Gade,Sant Ramdas Art's, Commerce and Science College</p> <p>8)Mr. Swapnil Bhausaheb Namekar,Shiv Chhatrapati College</p> <p>9)Dr. Dinesh Sheshrao Kharate,Sant Ramdas Art's, Commerce and Science College</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Vijay Ramkisan Lakwal,Nanasaheb Yashwantrao Narayanrao Chavan Art's, Science and Commerce College</p> <p>2)Ms. Aishwarya Premsing Rajput,Dr. Babasaheb Ambedkar Marathwada University</p> <p>3)Dr. Mangesh Sheshrao Kharate,Vinayakrao Patil Mahavidyalaya</p> <p>4)Ms. Trupti Bhausaheb Namekar,Dr. Babasaheb Ambedkar Marathwada University</p> <p>5)Ms. Sweety Madhukar Salunke,Vinayakrao Patil Mahavidyalaya</p> <p>6)Dr. Pawankumar Sheshrao Kharate,Indira Gandhi Agriculture University</p> <p>7)Ms. Smita Sanjay Gade,Sant Ramdas Art's, Commerce and Science College</p> <p>8)Mr. Swapnil Bhausaheb Namekar,Shiv Chhatrapati College</p> <p>9)Dr. Dinesh Sheshrao Kharate,Sant Ramdas Art's, Commerce and Science College</p>
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(57) Abstract :

Molecular dynamics simulation is essential for mechanistic understanding of the functioning of living organisms and protein interactions as it provides unique description of the protein structure at atomic level along with protein dynamics. The quantitative insights gained by traditional Molecular dynamics (MD) force fields are limited as they are optimized for folded proteins hence generate incorrect characteristics with overly compact structures of intrinsically disordered protein regions (IDR) and intrinsically disordered proteins (IDP). In this invention we propose a protein force field ff99SBnmr2 which is residue specific obtained by balancing of backbone dihedral angle potential of ff99SBnmr1 force field in a residue specific manner for reproducing dihedral angle distributions quantitatively from an experimental coil library. The proposed invention is able to improve the backbone conformational ensembles of peptides, disordered proteins and disordered protein regions whereas maintaining well defined accurate and stable protein structure. A myriad of applications can be enable by this novel force field that requires quantitative description of IDRs, IDPs, folding & unfolding equilibria and loop dynamics.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121013000 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMPOSITE SHEET

(51) International classification	:E04F0013080000, C09D0175040000, C04B0041480000, C04B0041450000, B32B0021140000	(71) Name of Applicant : 1)Jitendra T Aghara Address of Applicant :Simpolo Vitrified Pvt. Ltd. Old Ghuntu Road, Morbi-363642 Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Jitendra T Aghara
(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 :

Composite Sheet Abstract The present invention relates to Composite Sheet which increasing the utility of ceramic tiles using bakelite sheet. The use of the present invention mostly replace the use of wood in the furnitureTMs and also replace with any inner and outer surface of the building elements and more particularly to panels or tiles adapted to provide a surface finish, especially a decorative surface finish, for instance on building surfaces. The present invention is mainly useful for the replacement of the wood furniture with the present invented constructed structure of ceramic tiles with Bakelite sheet. The sheet is waterproof, fireproof, antifouling, alkali resistance, corrosion resistance and termite proof.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : ARTIFICIAL NEURAL NETWORK BASED DETECTION OF COVID-19 FROM CHEST X-RAY IMAGES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Dinesh Sheshrao Kharate,Sant Ramdas Art's, Commerce and Science College Address of Applicant :PG Department of Zoology, Sant Ramdas Art's, Commerce and Science College Ghansawangi, Kumbhar-pimpalgaon road Jalna Maharashtra India 431209 Maharashtra India</p> <p>2)Dr. Vijay Ramkisan Lakwal,Nanasaheb Yashwantrao Narayanrao Chavan Art's, Science and Commerce College</p> <p>3)Prof. Bhalchandra Baburao Waykar,Dr. Babasaheb Ambedkar Marathwada University</p> <p>4)Ms. Trupti Bhausaheb Namekar,Dr. Babasaheb Ambedkar Marathwada University</p> <p>5)Dr. Mangesh Sheshrao Kharate,Vinayakrao Patil Mahavidyalaya</p> <p>6)Dr. Pawankumar Sheshrao Kharate,Indira Gandhi Agricultural University</p> <p>7)Dr. Vijay Digambarrao Suryawanshi,Sant Ramdas Art's, Commerce and Science College</p> <p>8)Ms. Sweety Madhukar Salunke,Vinayakrao Patil Mahavidyalaya</p> <p>9)Mr. Swapnil Bhausaheb Namekar,Wockhardt Biotech Park</p> <p>10)Ms. Aishwarya Preamsing Rajput,Dr. Babasaheb Ambedkar Marathwada University</p> <p>11)Ms. Smita Sanjay Gade,Sant Ramdas Art's, Commerce and Science College</p> <p>12)Ms. Aarati Bhausaheb Namekar,Srinath College of Pharmacy</p>
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(57) Abstract :

In recent years, multi fold improvement is viewed in the field of Artificial Intelligence hence plays a significant role in image classification especially classification of medical images. In specific Convolutional Neural Networks (CNN) belonging to Artificial Intelligence performs well in detection of several diseases such as heart disease, Dental diseases, Malaria and ParkinsonTMs disease. CNN has significant vision in detection of lung disease utilizing the medical images of the patient such as X-rays. Lung disease is the basic symptom of the global pandemic disease COVID-19. This invention proposes a CNN model for the detection of lung disease where the model involves four layers namely input layers, convolutional layers, fully connected layers and output layers. The three layered two dimensional convolutional layers involves ReLu activation function along with Max pooling making the detection process easier by training the model using dataset. The proposed CNN model provides 97.4% of accuracy and 94.5% of precision. F1 score of the model is achieved as 97.60 and the curve area of Receiver Operating Characteristic (ROC) is obtained as 0.975.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121013015 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESS OF MANUFACTURING BIOCOMPOSITE PELLETS AND MANUFACTURING METHODS OF BIODEGRADABLE PRODUCTS AND USES THEREOF

(51) International classification	:B29C0048000000, B29C0048920000, C08L0067040000, C08K0003220000, B29C0048080000	(71) Name of Applicant : 1)Trupti Nishikant Harkare Address of Applicant :E1-1304,Rutu Towers, Patalipada,Ghodbundar road, Thane(W) Maharashtra India 2)Ashwini Tushar Khanzode
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Trupti Nishikant Harkare
(33) Name of priority country	:NA	2)Ashwini Tushar Khanzode
(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 :

PROCESS OF MANUFACTURING BIOCOMPOSITE PELLETS AND MANUFACTURING METHODS OF BIODEGRADABLE PRODUCTS AND USES THEREOF Biocomposite is a material which is a combination of thermoplastic biopolymer and agricultural residues such as wheat straws, paddy straws, bagasse etc. The said process follows two methods for making biocomposite pellets that are further used as a raw material for manufacturing different biodegradable products. The present invention also comprises of different methods of manufacturing biodegradable products such as Extrusion, Manufacturing filaments, 3D Printing, Sheet/Film extrusion, Thermoforming, Blow Moulding, Injection Moulding.

No. of Pages : 25 No. of Claims : 8

(54) Title of the invention : MINOR EMBEDDING FEATURE STEGANALYSIS IN CALIBRATED AND UNCALIBRATED TRANSMISSION MEDIUM, ITS CLASSIFICATION WITH OPTIMISATION, USING VARIOUS KERNELS AND SAMPLING

(51) International classification	:G06T0001000000, H04N0001320000, G06K0009620000, G06K0009000000, G06N0020000000	(71) Name of Applicant : 1)DEEPA D.SHANKAR Address of Applicant :B37, Kowdiar Gardens Golf Links Road, Trivandrum Research Scholar, Banasthali Vidyapith, Rajasthan. Rajasthan India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DEEPA D.SHANKAR
(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 document describes about blind steganalysis that is done on both spatial and transform domain. The steganographic algorithms used are LSB Matching, LSB Replacement, PVD and F5. LSB Matching, LSB Replacement and Pixel Value Differencing are implemented in the spatial domain whereas F5 is implemented in the transform domain. The choice of the algorithms in spatial domain is due to the transition from a simple to a complex algorithm. The choice of F5 in transform domain is due to its robustness. The embedding percentage is 10 % which is a minor embedding. The minor embedding is taken into consideration since it is generally very difficult to analyse minor embedding due to the embedding size. Machine learning techniques are used here, and hence classifiers are incorporated to identify the presence of a hidden message in an image. The classifiers considered here are Support Vector Machine (SVM) and Support Vector Machine with Particle Swarm Optimisation (SVM-PSO). The optimization is used to increase the efficiency of the classifier. The concept of cross validation is also incorporated. This is to reduce the false positive and false negatives using real time data which is humongous. The images used here are the JPEG image. The images used are uncompressed images. The choice of JPEG is due to its wide usage in the internet and due to its property of lossy compression. The concept of calibration is also considered in the research. Due to the usage of Blind steganalysis, there is always a possibility of having only the stego image and not having the cover image for feature extraction. It is imperative that the features from the cover should be present for the classifier to learn. Hence an estimate of the cover image is created using the concept of calibration. The statistical analysis of the image is done by extracting the features from the image and analyzing statistically. Different combinations of statistics are used. They are the first order features, second order features, extended DCT features and markovian features. The first order, second order and extended DCT features are inter block dependency features whereas the markovian features are intra block dependency features. The combination is considered to eliminate the disadvantage caused by each of them independently. The features extracted are having high dimensionality which may affect the performance. Hence the dimensionality can be reduced using Principal Component Analysis. A total of 274 functionality's is extracted. Generally the classification happens in a default kernel function with a default sampling method. The research here uses six different kernel functions and four different sampling methods. The different kernel functions are radial, polynomial, dot, multiquadratic, Epanechnikov and ANOVA. The various sampling methods are linear, shuffled, stratified and automatic.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941050413 A

(19) INDIA

(22) Date of filing of Application :06/12/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SUSTAINED RELEASE ESTROGEN VAGINAL PESSARY

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)DR. PRATHIMA CHOWDARY Address of Applicant :173C Mokoia Rd, Birkenhead, Auckland 0626, New Zealand New Zealand
(31) Priority Document No	:NA	(72) Name of Inventor : 1)DR. PRATHIMA CHOWDARY
(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 devices and methods for treating prolapsed pelvic organ, cystitis and Atrophy in women. Particularly, the invention relates to drug loaded vaginal support devices and methods wherein the device is inserted in vagina to support as well as release the drug. Specifically the invention relates to a Vaginal Ring Pessary comprising Estrogen in Silicone rubber polymer matrix, which releases drug over a prolonged period of about 180 days. Additionally the invention relates to the method of fabrication of the device and its use in treatment of vaginal atrophy, cystitis and uterovaginal prolapse. FIGURE 1.

No. of Pages : 39 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041010825 A

(19) INDIA

(22) Date of filing of Application :13/03/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN ECOFRIENDLY PROCESS FOR PRODUCTION OF CHITOSAN

(51) International classification	:C08B0037080000, C10M0177000000, A61K0031722000, C09K0008514000, A61K0047360000	(71) Name of Applicant : 1)AURA BIOTECHNOLOGIES PRIVATE LIMITED Address of Applicant :Survey No. 1/270, Plot 1 & 2, Galaxy Road, Ayanambakkam, Chennai 600 095, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PAZHANIMUTHU ANNAMALAI
(33) Name of priority country	:NA	2)PAZHANIVEL RAMU
(86) International Application No	:NA	3)RAJKUMAR SELVARAJ
Filing Date	:NA	4)RENGARAJAN SRINIVASAN
(87) International Publication No	: NA	5)MADHU KANTA
(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 for a process for the production of chitosan maintaining the integrity and viscosity of the chitosan from chitin sources and the process is devoid of high alkali concentration (=50% NaOH) and higher temperatures 110 120°C. The process comprises the steps of pretreatment, demineralization, deproteination, deacetylation and drying, with water washes after each step except the drying and dewatering steps.

No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041011863 A

(19) INDIA

(22) Date of filing of Application :19/03/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : WHEEL CHAIR WITH DOUBLE SCISSOR JACK MECHANISM FOR HEIGHT ADJUSTMENT FOR CREEPING PATIENTS.

(51) International classification	:A61G0005100000, A61G0007100000, A61G0005140000, A61G0005120000, A61G0005060000	(71) Name of Applicant : 1)Nitte (Deemed to be University) Address of Applicant :University Enclave, Medical Sciences Complex, Deralakatte, Mangalore - 575018 Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Niranjan Chiplunkar
(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 :

Wheel Chair with double scissor jack mechanism for height adjustment for Creeping Patients • is a mechanical engineering product that is designed to help the patients who can not stand, to move around with help of a caretaker. All care has been taken in the design of this product keeping in view the need and comfort of creeping patients such as : height of the seat when lowered to the fullest extent, stability of the wheelchair, security protection over the four side wheels, sliding mechanism to easily sit on the seat at lowered position and to depart easily. The design has been made to reduce unnecessary weight of the wheelchair. Even though the prototype has been designed and fabricated using steel, any other suitable material can also be used keeping in mind the cost and the weight. The fabricated wheelchair as per the given design is actually being used to the fullest satisfaction of a patient and his caretaker to move the creeping patient from one place to other. Such a wheelchair has not be found in any literature and the inventor is fully convinced that it is a unique design which will be of help to many patients who can not stand and move from one place to other by creeping on the floor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041038187 A

(19) INDIA

(22) Date of filing of Application :04/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : DYNAMIC LOGIC ELEMENT FOR CONTROLLING PRESSURE LIMIT IN HYDRAULIC SYSTEM

(51) International classification	:F15B0013020000, B66F0009220000, E02F0009220000, F15B0011028000, F15B0021047000	(71) Name of Applicant : 1)VARADHARAJAN PARTHIBAN Address of Applicant :3, Kovai Estate, Veeryampalayam Road, Kalappatti, Coimbatore - 641048, Tamilnadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VARADHARAJAN PARTHIBAN
(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 stand-alone or inbuilt logical element associated with a hydraulic system for effective regeneration to improve the efficiency of any hydraulic system of a machine or equipment, including but not limited to farm machinery, industrial machinery, construction and mining machinery which uses hydraulic system. The logical element senses the cavitation or low pressure in the hydraulic system and automatically regulates and diverts the portion of hydraulic oil flow to caved and required areas by regenerating through the anti-cavitation feature of the valve by automatically sensing and applying selective restriction to the set or adjustable pressure limit for the passage of oil. Reference Figure. 1

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041214 A

(19) INDIA

(22) Date of filing of Application :23/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : EFFECT OF PLASTIC AGGREGATE ON MICROSTRUCTURE OF BINARY BLENDED SELF CONSOLIDATED CONCRETE

(51) International classification	:C04B0018080000, C04B0040000000, C04B0018020000, C04B0103440000, C04B0103000000	(71)Name of Applicant : 1)Dr. Chunchu Bala Rama Krishna Address of Applicant :School of Civil Engineering, REVA University, Bangalore-64, INDIA. Karnataka India 2)Dr. P. Jagadeesh 3)Dr. Seelam Srikanth Reddy
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Chunchu Bala Rama Krishna
(33) Name of priority country	:NA	2)Dr. P. Jagadeesh
(86) International Application No	:NA	3)Dr. Seelam Srikanth Reddy
Filing 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 :

Self-consolidated concrete (SCC) is a world recognized technology with negligible segregation and bleeding issues in pumping to the desired place. SCC can accomplish good properties even with inclusion of plastic aggregates in it. Current studies on microstructure have proven the enhancement of rheological and durable properties of SCC with combined effect of mineral admixture fly ash and spherical shaped High impact polystyrene (HIPS) aggregate. Optimal Cement replacement with 30% Fly ash acted as filler due to its spherical shape at interfacial transition zone (ITZ) between plastic aggregate and matrix. Besides flyash, hydrophobic spherical shaped HIPS aggregate attains compromising strength by filling minute voids in concrete and reduces water absorption up to 30% replacement for fine aggregate. Plastic HIPS aggregate exhibits promising performance at high temperatures and also in acidic medium. This work presents the microstructure studies of binary blended SCC with partial HIPS aggregate using Scanning Electronic Microscopy (SEM). It can be appreciable achievement to develop eco-friendly SCC that not only consumes plastic waste but also helps in building durable structures.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041045170 A

(19) INDIA

(22) Date of filing of Application :16/10/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : A HIGH POWER REGULATED PULSE GENERATOR CIRCUIT

(51) International classification	:H02M0001000000, H03K0017060000, H02M0001080000, H02M0007537000, G05F0001460000	(71) Name of Applicant : 1)Centum Electronics Limited Address of Applicant :#44, KHB Industrial Area, Yelahanka New Town, Bangalore-560106, Karnataka India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Vinod Chippalkatti
(33) Name of priority country	:NA	2)Bhoopendrakumar Singh
(86) International Application No	:NA	3)Sunil Bhattad
Filing Date	:NA	4)Praveen P K
(87) International Publication No	: NA	5)Nishanth B Kulkarni
(61) Patent of Addition to Application Number	:NA	6)T. Kanthimathinathan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A HIGH POWER REGULATED PULSE GENERATOR CIRCUIT The invention provides a high power regulated pulse generator circuit. The circuit includes a first voltage source for supplying DC bias voltage, a second voltage source for supplying DC input voltage and a pulse generator for supplying a pulse command. A gate driver integrated circuit is configured for controlling the flow of the DC input voltage through a high-side switch based on the pulse command. A driving arrangement is coupled to the voltage source and is configured for driving the high-side switch. A bootstrap circuit is coupled to the driving arrangement for providing necessary biasing voltage. A voltage regulating arrangement is coupled to the high-side switch for regulating the voltage amplitude of an output pulse signal. The power of the output pulse signal is in the range of 50W and can be configured for higher power by changing the high-side switch with higher current capacity

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041055923 A

(19) INDIA

(22) Date of filing of Application :22/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR CLASSIFICATION OF OBJECTS IN VEHICLE USING FEATURE VECTORS

(51) International classification	:G06K0009620000, A61B0005040000, H04N0009820000, G06T0007110000, A61B0008060000	(71) Name of Applicant : 1)PathPartner Technology Private Limited Address of Applicant :16, PSS Plaza, New Tippasandra Main Rd, HAL III Stage, Bengaluru - 560075, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SANTHANA RAJ
(33) Name of priority country	:NA	2)DIPANJAN GHOSH
(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 disclosure relates to a system (100) for differentiating objects present in a vehicle, the system includes one or more sensors (102) placed within a vehicle to generate a set of signals in response to an object (104) being present within the vehicle. An ADC (118) converts the received set of signals to a digital form. A processor (106) receives the digital set of signals, and process the received digital set of signals, to generate point cloud dataset. The processor extracts, from the point cloud dataset, a first set of features pertaining to a single frame and a second set of features pertaining to a multi-frame. The extracted set of features are provided as input to a classifier (120) to differentiate the object present in one or more zones within the vehicle.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000231 A

(19) INDIA

(22) Date of filing of Application :04/01/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN IMPROVED CIRCUIT FOR VARYING THE OUTPUT VOLTAGE OF A BUCK CONVERTER USING AN EXTERNAL COMMAND

(51) International classification	:H02M0003156000, H02M0003158000, H04M0003000000, G05F0001620000, H03F0003195000	(71) Name of Applicant : 1)Centum Electronics Limited Address of Applicant :#44 KHB Industrial Area, Yelahanka New Town, Bangalore-560106 Karnataka India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Bhoopendrakumar Singh
(33) Name of priority country	:NA	2)Praveen P K
(86) International Application No	:PCT///	3)T. Kanthimathinathan
Filing Date	:01/01/1900	4)Vinod Chippalkatti
(87) International Publication No	: NA	5)Nishanth B Kulkarni
(61) Patent of Addition to Application Number	:NA	6)Sunil Bhattad
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN IMPROVED CIRCUIT FOR VARYING THE OUTPUT VOLTAGE OF A BUCK CONVERTER USING AN EXTERNAL COMMAND The invention provides an improved circuit for varying the output voltage of a buck converter using an external command. The improved circuit includes an external voltage source for supplying an analog voltage command. A differential amplifier is connected to the third voltage source for obtaining a differential output from the supplied analog voltage command. An error amplifier having a first input terminal and a second input terminal are connected to an output of the differential amplifier and an output of a voltage divider respectively for comparing a minimum reference voltage with respect to the output voltage. The minimum reference voltage is obtained by adding the differential output with a 2.5V reference voltage. The error amplifier generates an error signal based on the comparison. An output of the error amplifier is connected to the buck converter integrated circuit for varying the output voltage of the buck converter integrated circuit based on the error signal. FIG.2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141004251 A

(19) INDIA

(22) Date of filing of Application :01/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A STABLE PERFUMERY COMPOSITION AND A METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0036630000, A61K0036185000, A61K0036600000, A61K0036575000, A61K0047320000	(71) Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru, Karnataka, India- 560037. Karnataka India
(31) Priority Document No	:NA	2)Chandrappa Muneppa
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Phani Kumar Pullela
(86) International Application No	:NA	2)Chandrappa Muneppa
Filing Date	:NA	3)Srinivas Reddy Mungara
(87) International Publication No	: NA	4)Preethi K
(61) Patent of Addition to Application	:NA	5)Sadineni Koteswara Ravikumar Kiran
Number	:NA	6)Jasthi Ramakanth
Filing Date	:NA	7)Sanjay Kashyapa
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A stable perfumery composition and a method of preparation thereof. The invention provides a composition and a method of preparation of A stable perfumery composition comprising: diffusion agent, a solvent selected from a group consisting of, ethanol, isopropyl alcohol, an encapsulating agent, consisting beta-cyclodextrin and calcium chloride and a plurality of fragrant mixture comprises a solute selected from a extracts of artabotrys hexapetalus, magnolia champaka, jasminum officinale, artocarpus heterophyllus extract, santalum paniculatum dissolved in diffusion agent as a solvent

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : AN ULTRAFINE UTILIZATION COMPOSITION AND METHOD OF PRODUCTION THEREOF

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>(71)Name of Applicant :</p> <p>1)Phani Kumar Pullela Address of Applicant :Professor, Chemistry, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, IT Park Road, AECS Layout, Kundalahalli, Bengaluru, Karnataka, India-560037. Karnataka India</p> <p>2)B Srinivasa Reddy</p> <p>3)Sharath Kumar Devaraju</p> <p>(72)Name of Inventor :</p> <p>1)Phani Kumar Pullela</p> <p>2)B Srinivasa Reddy</p> <p>3)Sharath Kumar Devaraju</p> <p>4)Srinivas Reddy Mungara</p> <p>5)SHRAVAN KUMAR</p> <p>6)Swathi N</p> <p>7)Ramesha G N</p> <p>8)Koushik Nagaraju</p> <p>9)Nitesh Kumar Reddy D</p> <p>10)Darshan S</p> <p>11)Srinivas N Edara</p> <p>12)Venkatesh Murthy A</p>
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(57) Abstract :

The present invention provides a composition and a method of producing a ultrafine utilization composition. More specifically the invention relates to composition and method of producing ultrafine utilization composition comprising, an adhesive excipient, selected from a group consisting calcium acrylic polymer molecular weight ranges from 50,000 Daltons to 4,00,000 Daltons, bonding agent, selected a reagent calcium silicate. The construction excipient mixture comprising a materials manufactured sand, river sand, stones (2mm-20mm) and water and an ultrafine particle powder, comprising selected from a group consisting of ultrafines less than 300 micron size, ultrafines less than 500 micron size, ultrafines less than 1000 micron size and ultrafines less than 2000 micron size and a civil construction use material realized due to insitu curing in combination with bonding agent.

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141005377 A

(19) INDIA

(22) Date of filing of Application :09/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A LIQUID-COOLED BATTERY THERMAL MANAGEMENT SYSTEM FOR A TWO-WHEELER VEHICLE

(51) International classification	:H01M0010625000, H01M0010613000, H01M0010617000, H01M0010656800, H02J0007000000	(71) Name of Applicant : 1)Vellore Institute of Technology Address of Applicant :Vellore Institute of Technology, Near Katpadi Road, Vellore-632014, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Thundil Karuppa Raj Rajagopal
(33) Name of priority country	:NA	2)Dr Elangovan Devaraj
(86) International Application No	:NA	3)Mr. Jeevesh Jain
Filing Date	:NA	4)Mr. Sumit Nilesh Vadodaria
(87) 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 liquid-cooled battery thermal management system for a two-wheeler vehicle [0021] The present invention discloses a liquid-cooled battery thermal management system for a two-wheeler vehicle, wherein the system (100) comprises a battery pack (101) comprising a plurality of cells. Low temperature liquid flows through the cells in a pre-defined path for maintaining the temperature difference liquid flows through the cells in a pre-defined path for maintaining the temperature difference between each cell of the battery pack (101) at a pre-defined low temperature value. A by-pass valve (102) diverts the flow of liquid obtained at the outlet of the battery pack (101) based on the temperature of the liquid. Further, a radiator (103) decreases the temperature of the liquid obtained from the by-pass valve (102) and a pump (104) transmits the liquid to the battery pack (101) to facilitate cooling action of the cells present in the battery pack (101). (Figure 1)

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141005565 A

(19) INDIA

(22) Date of filing of Application :09/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING A PIEZO PEN

(51) International classification	:G06F0003010000, G06F0003041000, G06Q0030020000, G06F0003048800, G06F0003035400	(71) Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru, Karnataka, India- 560037 Karnataka India
(31) Priority Document No	:NA	2)Chandrappa Munappa
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Phani Kumar Pullela
(86) International Application No	:NA	2)Chandrappa Munappa
Filing Date	:NA	3)SRINIVAS REDDY MUNGARA
(87) International Publication No	: NA	4)Chidhananda Ranyam Srinivas
(61) Patent of Addition to Application Number:	:NA	5)Kodandapani Depa
Filing Date	:NA	6)Anindita Ghosh
(62) Divisional to Application Number	:NA	7)Srinivas Madhu Srinivas
Filing Date	:NA	8)Pranav Bhat

(57) Abstract :

The present invention describes to a system and method for enabling a piezo pen. More specifically, the invention may describe to methods and systems for enabling a pen with gesture capture mechanism and eliminate need of any writing material like book or paper. The problem of carrying writing material and note taking by enabling a piezo pen that may be used as a writing tool, and impressions created by the piezo pen may be captured by an external system using pressure sensors and motion sensors. The piezo pen 101 may comprise a circuitry 200 configured to execute instructions to determine an impression created by moving the nib 303 on a surface 305 based on the plurality of sensors 207 and the plurality of actuators 209 generate impression data based on the determined impression created by moving the nib 303 on the surface 305 and transmit the generated impression data to an external device.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141005568 A

(19) INDIA

(22) Date of filing of Application :10/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING A DYNAMIC POPULATION SCREENING SYSTEM

(51) International classification	:G16H0050300000, A01C0007100000, G06Q0050260000, G16H0050800000, G01N0017000000	(71) Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru, Karnataka, India- 560037. Karnataka India
(31) Priority Document No	:NA	2)PRADEEP TALASHERY
(32) Priority Date	:NA	3)Chandrappa Muneppa
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Phani Kumar Pullela
Filing Date	:NA	2)PRADEEP TALASHERY
(87) International Publication No	: NA	3)Chandrappa Muneppa
(61) Patent of Addition to Application	:NA	4)Pranav Bhat
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In the present invention problem of static and laborious population screening to determine health status of the population is solved by a dynamic population screening system. The method, may comprise obtaining a plurality of physical characteristic information associated with a screenee 10. The method may also include determining under arm circumference 30 associated with the screenee based on a sensor triangulation wherein the sensor triangulation is enabled by a signal source 301A and a CCD sensor 301B. The method further includes generating a health status associated with the screenee 10 based on the obtained plurality of physical characteristic information and determined under arm circumference 30. The method includes updating a geographical health map based on the generated health status associated with the screenee 10

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING A DYNAMIC DICE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:A63F0009040000, A63F0003000000, G10L0019160000, H02J0003360000, A61H0015000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Chemistry, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, IT Park Road, AECS Layout, Kundalahalli, Bengaluru, Karnataka, India-560037 Karnataka India</p> <p>2)Chandrappa Munappa</p> <p>(72)Name of Inventor : 1)Phani Kumar Pullela 2)Chandrappa Munappa 3)SRINIVAS REDDY MUNGARA 4)Chidhananda Ranyam Srinivas 5)Rahul S Mahendrakar 6)Nitish Srijan 7)Pranav Bhat 8)Vidhyashree V 9)Swethashree S 10)Zain Ahmed N 11)Amrutha C K</p>
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(57) Abstract :

The following invention relates to a system and method for enabling a self-spinning dice. More specifically, the following invention relates to methods and systems for enabling a spinning dice that takes audio inputs and performs rolling action. The problem of repetitive rolling of dice of for people without limbs or for people with disabled limbs, is solved by using a self-spinning dynamic dice that spins based on audio/ electronic inputs. A method for enabling the dynamic dice 101 may comprise obtaining, by a circuitry 200 an input from at least one source. Followed by generating an electrical signal based on the input by the electro-mechanical assembly 309, providing energy to the plurality of springs .307 of the dynamic dice 101 and spinning the dynamic 101 dice based on the energy provided to the dynamic dice 101.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141005570 A

(19) INDIA

(22) Date of filing of Application :10/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING A DYNAMIC FAN

(51) International classification	:G10L0025630000, F04D0027000000, G06F0021320000, B01D0061140000, G07C0009370000	(71) Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru, Karnataka, India- 560037 Karnataka India 2)Sharath Kumar Devaraju
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Phani Kumar Pullela
(33) Name of priority country	:NA	2)Sharath Kumar Devaraju
(86) International Application No	:NA	3)SRINIVAS REDDY MUNGARA
Filing Date	:NA	4)Chidhananda Ranyam Srinivas
(87) International Publication No	: NA	5)Pranav Bhat
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The following invention relates to a system and method for enabling a self-spinning fan. More specifically, the following invention relates to methods and systems for enabling a spinning fan that takes audio inputs and performs rotating action. In the present invention problem of constant engaging of a crying toddler is solved by using a voice triggered (crying sound) self-rotating dynamic fan. The method for enabling a dynamic fan 101, may comprise: obtaining an audio input 301 from at least one source, generating an electrical signal based on the audio input 301, rotating the plurality of wings 309 for a particular duration based on the generated electrical signal and the electro-mechanical assembly.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141005571 A

(19) INDIA

(22) Date of filing of Application :10/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING A DYNAMIC MUSIC SYSTEM

(51) International classification	:G10H0001000000, H04L0029080000, G07C0009370000, H04R0001200000, G06F0003160000	(71) Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Chemistry, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, IT Park Road, AECS Layout, Kundalahalli, Bengaluru, Karnataka, India-560037 Karnataka India 2)Sharath Kumar Devaraju
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Phani Kumar Pullela
(33) Name of priority country	:NA	2)Sharath Kumar Devaraju
(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 following invention relates to a system and method for enabling a self-playing music system. More specifically, the following invention relates to methods and systems for enabling a self-playing music system that takes audio inputs and play a track for a specific duration. In the present invention problem of constant engaging of a crying toddler is solved by using a voice triggered (crying sound) self-playing dynamic music system. The method for enabling a dynamic music system 101, may comprise: obtaining an audio input 301 from at least one source, generating an electrical signal based on the audio input 301, playing a track from the dynamic music system for a particular duration based on the generated electrical signal and a customizer

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141005572 A

(19) INDIA

(22) Date of filing of Application :10/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING A DYNAMIC REPOSE SYSTEM

(51) International classification	:G06F0021320000, G06F0003160000, G06F0016951000, G06F0003044000, G10L0013000000	(71) Name of Applicant : 1)Phani Kumar Pullela Address of Applicant :Professor, Head-SC/ST Entrepreneurship Cell, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru, Karnataka, India- 560037. Karnataka India
(31) Priority Document No	:NA	2)Chandrappa Muneppa
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Phani Kumar Pullela
(86) International Application No	:NA	2)Chandrappa Muneppa
Filing Date	:NA	3)Pranav Bhat
(87) 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 following invention relates to a system and method for enabling a self-rocking repose system. More specifically, the following invention relates to methods and systems for enabling a rocking repose system that takes audio inputs and performs swiveling action. In the present invention problem of constant engaging of a crying toddler is solved by using a voice triggered (crying sound) self-rotating dynamic repose system. The method for enabling a dynamic repose system 101, may comprise: obtaining an audio input 301 from at least one source, generating an electrical signal based on the audio input 301, enable movement of the body 303A of the dynamic repose system 101 in the first direction and the second direction of an axis 305 for a particular duration based on the generated electrical signal and the electro-mechanical assembly.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141007161 A

(19) INDIA

(22) Date of filing of Application :20/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CONSORTIUM OF BACTERIOPHAGES TO CONTROL VIBRIO PARAHAEMOLYTICUS CAUSING VIBRIOSIS IN AQUACULTURE

(51) International classification	:A23K0050800000, A61K0035760000, A61P0031040000, A01G0031000000, A23K0020195000	(71) Name of Applicant : 1)Nitte University Address of Applicant :University Enclave, Medical Sciences Complex Deralakatte Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Juliet Mohan Raj
(33) Name of priority country	:NA	2)Dr. Indrani Karunasagar
(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 :

Vibrio parahaemolyticus is an important pathogen of aquatic animals due to the emergence of pathogenic variants that lead to colossal losses in shrimp aquaculture. Bacterial diseases are managed by the use of antibiotics. However, emergence of antibiotic resistance and persistence of residues in tissues are a major food safety concern. Use of antibiotics in aquaculture is also restricted by government regulations. The need for alternative strategies both as therapeutic use as well as prevention of infections is increasing. Phages are natural cohabitants with bacteria in aquatic environments and play an important role in maintaining the ecosystem equilibrium. However, phage therapy has limitations such as narrow spectrum of activity and emergence of phage resistance. We have overcome this problem by developing a consortium of highly lytic phages that increase the lytic spectrum to over 82% and prevent emergence of phage resistance. Hence, this phage consortium can be used as a viable and low cost disease management strategy against V. parahaemolyticus infections in aquatic animals.

No. of Pages : 3 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141008199 A

(19) INDIA

(22) Date of filing of Application :26/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SMART PREDICTION SYSTEM TO MINE THE DATABASE OF COVID VACCINATED PERSONEL

(51) International classification	:G16H0010600000, A61B0005000000, A61B0005020500, G16H0050300000, G16H0050500000	(71)Name of Applicant : 1)Dr. D. SUNITHA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CSE, KAMALA INSTITUTE OF TECHNOLOGY & SCIENCE KITS, SINGAPUR, HUZURABAD, KARIMNAGAR(DIST), TELANGANA Telangana India 2)PUSHPA LATHA MAMIDI 3)Dr.DAYADILAKSHMAIAH 4)B.ARATHI 5)SRILAKSHMI ALLA 6)RADARAPU BHARATHI 7)RADHIKA RAJOJU 8)ANBARASU M
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. D. SUNITHA 2)PUSHPA LATHA MAMIDI 3)Dr.DAYADILAKSHMAIAH 4)B.ARATHI 5)SRILAKSHMI ALLA 6)RADARAPU BHARATHI 7)RADHIKA RAJOJU 8)ANBARASU M
(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 :

Smart prediction system to mine the database of COVID vaccinated personel is the proposed invention that aims at implementing techniques for statistically analysis of the possible side effects that may erupt after getting vaccinated for COVID 19. Machine learning techniques, as well as regression techniques, are used to serve the purpose on two types of databases namely the first for the health parameters of the patients before getting vaccinated and secondly the health parameters of the patients after getting vaccinated. The data from the clinical trials are analysed to get a statistical output regarding the clues about the possible side effects.

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

(54) Title of the invention : HOLISTIC DATABASE MANAGEMENT FOR NITIZENS

<p>(51) International classification :G06Q0050200000, G06Q0010100000, G06F0016360000, G06Q0050260000, G06F0016210000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)Dr. SUNIL TEKALE Address of Applicant :MALLA REDDY COLLEGE OF ENGINEERING, MAISAMMAGUDA, SECUNDERBAD, TELANGANA, INDIA - 500100. Telangana India 2)Dr. J. GLADSON MARIA BRITTO 3)Dr. M. SREEDHAR REDDY 4)Dr. DILEEP KUMAR PADIDEM 5)Ms. T. LAKSHMI PRASANNA 6)Dr. KOTADI CHINNAIAH 7)Dr. R. RAJAGOPAL 8)Dr. C. BERIN JONES 9)Dr. VIKAS KUMAR 10)Dr. NIKHIL RAJ 11)Dr. T. V. REDDY 12)Mr. SUDHIR REDDY 13)Ms. CH. VIJAYKUMARI 14)Mr. MITHUN CHAKRAVARTHI K</p> <p>(72)Name of Inventor : 1) Dr. SUNIL TEKALE 2)Dr. J. GLADSON MARIA BRITTO 3)Dr. M. SREEDHAR REDDY 4)Dr. DILEEP KUMAR PADIDEM 5)Ms. T. LAKSHMI PRASANNA 6)Dr. KOTADI CHINNAIAH 7)Dr. R. RAJAGOPAL 8)Dr. C. BERIN JONES 9)Dr. VIKAS KUMAR 10)Dr. NIKHIL RAJ 11)Dr. T. V. REDDY 12)Mr. SUDHIR REDDY 13)Ms. CH. VIJAYKUMARI 14)Mr. MITHUN CHAKRAVARTHI K</p>
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(57) Abstract :

The paper basically deals with the citizen's database over internet which is referred as Nitizens database, to say citizens on internet. This database is going to be very voluminous as it has to accommodate the details of every human being in our country. The database created will help the government and various other organization to easily get information about the nitizens, the initial entry starts when a person is born and the same will end with the person itself. The database is going to provide details of the nitizens to every organization where ever the nitizen visits and based on the unique id which is referred as NID the organization can track the information about the nitizen. For example when the person is born his initial information will be recorded and when the person joins a school his information using NID is tracked and the school updates the information when the nitizen joins the school, similarly colleges, bank, hospitals, companies ,government organization where ever the nitizen applies or works or takes services.

No. of Pages : 8 No. of Claims : 10

(54) Title of the invention : ADVANCED ADJUSTABLE WATER RESISTANT ULTRASONIC BASED BLIND STICK WITH GPS TRACKING

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61H0003060000, G08B0021240000, A01K0015020000, H04W0004140000, A61F0009080000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.J.Gladson Maria Britto Address of Applicant :Professor, Malla Reddy College of Engineering, Maisammaguda, Secunderbad-100. Telangana India</p> <p>2)Dr.Sunil Tekale</p> <p>3)Dr.M.Sreedhar Raddy</p> <p>4)Dr.Vikas Kumar</p> <p>5)Dr.Nikhil Raj</p> <p>6)Dr.Dileep kumar padidem</p> <p>7)Dr.Rajasekar Rangasamy</p> <p>8)Dr.C.Berin Jones</p> <p>9)Dr.Kotadi Chinnaiah</p> <p>10)Ms.T.Lakshml Prasanna</p> <p>11)Mr.Sudhir Reddy</p> <p>12)Ms.Ch.VijayKumari</p> <p>13)M.Shiva Kumar</p> <p>14)Mr.Mithun chakravarthi</p> <p>(72)Name of Inventor :</p> <p>1)Dr.J.Gladson Maria Britto</p> <p>2)Dr.Sunil Tekale</p> <p>3)Dr.M.Sreedhar Raddy</p> <p>4)Dr.Vikas Kumar</p> <p>5)Dr.Nikhil Raj</p> <p>6)Dr.Dileep kumar padidem</p> <p>7)Dr.Rajasekar Rangasamy</p> <p>8)Dr.C.Berin Jones</p> <p>9)Dr.Kotadi Chinnaiah</p> <p>10)Ms.T.Lakshml Prasanna</p> <p>11)Mr.Sudhir Reddy</p> <p>12)Ms.Ch.VijayKumari</p> <p>13)M.Shiva Kumar</p> <p>14)Mr.Mithun chakravarthi</p>
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(57) Abstract :

ABSTRACT OF THE INVITATION: The generally available blind walking sticks are capable of finding obstacle that touch the stick physically. It is helpful to a blind person but we here propose an advanced blind stick system that allows blind person to sense objects before stick touches them. Check if there is water in front. Also, it includes GPS tracking feature to find lost person along with other useful features. The system uses a microcontroller-based circuit to handle the entire system functioning. Our system uses ultrasonic sensor to sense objects within certain range of the person and sounds beeps of a particular type to signal obstacles. Also we use a shorting system to detect water in front of the person. As soon as the front wires of the system dip in water that system signals the blind person by a different beep pattern to signal water in front. Now this proposed system also has a light sensing feature to give the blind person a sense of light. It signals the person if there is light or darkness so that he/she can know if it is night or has entered a very dark room/facility. If the person loses the stick the person can use an RF remote so the stick starts beeping and the person can find it. One more important feature of the system is that the system allows the blind person to send out a sms message with his/her GPS location to the caretaker/relatives/loved ones of the person in case of trouble or being lost.

No. of Pages : 6 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141009979 A

(19) INDIA

(22) Date of filing of Application :10/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF ATTENDANCE MARKING CAMERA

(51) International classification	:G07C0001100000, G06Q0050200000, G06K0009000000, H04N0005232000, G07C0001120000	(71) Name of Applicant : 1)Dr. NAYANA D.K. Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF ECE, REVA UNIVERSITY, RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA, BANGALORE, KARNATAKA, INDIA - 560064. Karnataka India
(31) Priority Document No	:NA	2)AISHWARYA S
(32) Priority Date	:NA	3)BHEEMASHANKARA
(33) Name of priority country	:NA	4)GIRISH D
(86) International Application No	:NA	5)PITTAM CHANDRA MOULISWARA REDDY
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1) Dr. NAYANA D.K.
(61) Patent of Addition to Application Number	:NA	2)AISHWARYA S
Filing Date	:NA	3)BHEEMASHANKARA
(62) Divisional to Application Number	:NA	4)GIRISH D
Filing Date	:NA	5)PITTAM CHANDRA MOULISWARA REDDY

(57) Abstract :

Attendance recording of students in a classroom is very much important for any of the academic organizations. The traditional method of attendance marking is by calling students name or register number and this may take 10-15 minutes in large classrooms in presence of a greater number of students hence this is a time-consuming process. Face recognition have made great advances date and our project proposes image-based attendance system which employs face recognition technique for attendance marking. A mobile camera system is built using Raspberry pi interfaced with camera and 3.5 display and a battery- which can be carried by the lecturer. To take the attendance, the images of classroom have to be captured by lecturer in presence of students with the camera. The system will identify and recognise all the faces of the students in the captured images and generates the attendance sheet in desired format.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141010623 A

(19) INDIA

(22) Date of filing of Application :13/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A DECISION SUPPORT SYSTEM FOR DISEASE PREDICTION AND METHODS THEREOF

(51) International classification	:G16H0050200000, G06Q0010060000, G16H0050300000, G16B0040000000, G16B0020000000	(71) Name of Applicant : 1)CHANDRALEKHA M Address of Applicant :Old No: 44 New No: 1, Perumal Kovil Street, Karur, TamilNadu, India, Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)CHANDRALEKHA M
(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 DECISION SUPPORT SYSTEM FOR DISEASE PREDICTION AND METHODS THEREOF ABSTRACT The invention discloses a decision support system (200) and a method of predicting a disease condition (100). The method (100) is divided into three main steps i) feature selection and disease diagnosis, ii) Estimation of disease risks and iii) predictive analytics of disease risk profiles. The method includes receiving data from a plurality of devices, identifying one or more features from the received data, build subsets (105) based on the identified features and select a subset based on a performance of a model. Further the method includes building random trees (107), assigning corresponding class label and classifying the presence or absence of heart disease. The method also includes estimating the risk of hospitalization (113) that may help in decision making, manage and improve service quality and help physicians to understand the degree of medical attention required using the heart disease symptoms. (FIG. 1)

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

(54) Title of the invention : An IoT Based Remote Solar Monitoring System Design

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number: Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H02S0050000000, H02J0007350000, H01L0031042000, H02S0020300000, H02S0010400000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:PCT// :01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.Sathishkumar V E Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Kongu Engineering College, Perundurai, Erode 638101, Tamil Nadu, India Tamil Nadu India</p> <p>2)Mr.Silambarasan P</p> <p>3)Mr.S.L Abdul Haleem</p> <p>4)Dr.Narasimha Murthy K N</p> <p>5)Dr. Dinesh Sheshrao Kharate</p> <p>6)Dr.S Bharath Bhushan</p> <p>7)Mr.C S Pavan Kumar</p> <p>8)Mr.Chunduru Anilkumar</p> <p>9)Dr.B.Nagaraja Naik</p> <p>10)Ms.Meesala Shobha Rani</p> <p>(72)Name of Inventor :</p> <p>1)Mr.Sathishkumar V E</p> <p>2)Mr.Silambarasan P</p> <p>3)Mr.S.L Abdul Haleem</p> <p>4)Dr.Narasimha Murthy K N</p> <p>5)Dr. Dinesh Sheshrao Kharate</p> <p>6)Dr.S Bharath Bhushan</p> <p>7)Mr.C S Pavan Kumar</p> <p>8)Mr.Chunduru Anilkumar</p> <p>9)Dr.B.Nagaraja Naik</p> <p>10)Ms.Meesala Shobha Rani</p>
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(57) Abstract :

The rapid development of technologies, cost of renewable energy equipment is reducing worldwide and encouraging Solar Power Plants installations in large quantity. The Solar Power Plants generates the Solar Energy, converts sun light into electricity by Photovoltaic cells, mirrors, and lenses. The commercial way of producing the energy from the sun is the viable way of renewable energy. The large scale of the solar power plants are installing in the locations which are not accessible to monitor everyday. The remote real time solar monitoring system is required for each individual solar panel in the solar energy system to know the performance in the form of power output levels. The Internet of Things (IoT) is the well developed technology which can integrate the real time environment with the computer for monitoring remotely. Internet of Things allows the solar system objects to be sensed and monitored remotely with the web interface. As the solar power plant systems are located in the remote areas in larger size required to be monitor remotely to know the performance of the each panel in generation of the solar energy. The present invention disclosed herein is an IoT Based Remote Solar Monitoring System Design comprising of: Solar Panel (201); Rectification (202); Battery (203); Current Sensor (204); Voltage Sensor (205); Microcontroller (206); Motor (207); Buzzer (208); LDR 1 (209); LDR 2 (210); WIFI Module (211); Hotspot (212); Server (213); Cloud (214); Dashboard (215); used to monitor the Solar power system remotely using Internet of Things. The present invention disclosed herein is a cost effective method based on IoT to monitor the performance of solar power system remotely. The present invention disclosed herein shows the system efficiency of 96% enables the efficient use of renewable energy.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011301 A

(19) INDIA

(22) Date of filing of Application :17/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MULTIPLE SENSOR DATA FUSION BASED INTRUDER ALERT SYSTEM EMPLOYING MACHINE LEARNING

(51) International classification	:G06K0009620000, G06K0009000000, G06N0003040000, G08B0013196000, G08B0013160000	(71) Name of Applicant : 1)Dr. G. NAVEEN SUNDAR Address of Applicant :DEPARTMENT OF CSE, KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES, KARUNYA NAGAR, COIMBATORE, TAMIL NADU - 641114. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. A. SHAMILA EBENEZER
(32) Priority Date	:NA	3)Mrs. S. JEBA PRIYA
(33) Name of priority country	:NA	4)Mrs. D. NARMADHA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. G. NAVEEN SUNDAR
(87) International Publication No	: NA	2)Dr. A. SHAMILA EBENEZER
(61) Patent of Addition to Application	:NA	3)Mrs. S. JEBA PRIYA
Number	:NA	4)Mrs. D. NARMADHA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

1) An alert system to identify an intruder in a building premises consisting of three types of sensors: the video camera, the pressure sensor and the microphone sensor employing machine learning algorithm. 2) As claimed in Claim 1, a CNN model for identification of the person in the premises by facial features. 3) As claimed in Claim 1, the identification of a person by the footsteps sound data collected by recording it using a-microphone placed close to the floor. 4) As claimed in Claim 1, the identification of the person by their weight employing pressure sensor. 5) As claimed in Claim 1, employing combination of ANN, Linear Regression and SVM to identify an intruder.

No. of Pages : 4 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011302 A

(19) INDIA

(22) Date of filing of Application :17/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MACHINE LEARNING BASED GARBAGE CLEANING ROBOT FOR OUTDOOR ENVIRONMENT

(51) International classification	:E02B0015100000, G06K0009000000, G06N0003080000, B65F0003040000, G06K0009660000	(71) Name of Applicant : 1)Dr. A. SHAMILA EBENEZER Address of Applicant :ASSISTANT PROFESSOR, KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES, KARUNYA NAGAR, COIMBATORE, TAMIL NADU 641114. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. G. NAVEEN SUNDAR
(32) Priority Date	:NA	3)Mrs. D. NARMADHA
(33) Name of priority country	:NA	4)Dr. V. EBENEZER
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. A. SHAMILA EBENEZER
(87) International Publication No	: NA	2)Dr. G. NAVEEN SUNDAR
(61) Patent of Addition to Application Number:	:NA	3)Mrs. D. NARMADHA
Filing Date	:NA	4)Dr. V. EBENEZER
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

1) A garbage collecting robot capable of collecting a specific type of solid waste based on machine learning powered image processing approach. 2) As claimed in Claim 1, the L Angle Collector being lowered and lifted by the Linear Actuator. 3) As claimed in Claim 1, the L Angle Collector tilted up and down to collect garbage. 4) As claimed in Claim 1, the Collecting Brush mopping the garbage by its motor. 5) As claimed in Claim 1, CNN based image processing for garbage identification.

No. of Pages : 3 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011303 A

(19) INDIA

(22) Date of filing of Application :17/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MULTIPLE SENSOR ALERT SYSTEM FOR VEHICLES AT HIGH ALTITUDE ROADS

(51) International classification	:G05D0001020000, F02D0037020000, H02P0025080000, B64G0001660000, G01B0011275000	(71)Name of Applicant : 1)Dr. G. NAVEEN SUNDAR Address of Applicant :DEPARTMENT OF CSE, KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES, KARUNYA NAGAR, COIMBATORE, TAMIL NADU - 641114. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. A. SHAMILA EBENEZER
(32) Priority Date	:NA	3)Mrs. S. JEBA PRIYA
(33) Name of priority country	:NA	4)Mrs. D. NARMADHA
(86) International Application No	:NA	5)Dr. V. EBENEZER
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. G. NAVEEN SUNDAR
(61) Patent of Addition to Application Number	:NA	2)Dr. A. SHAMILA EBENEZER
Filing Date	:NA	3)Mrs. S. JEBA PRIYA
(62) Divisional to Application Number	:NA	4)Mrs. D. NARMADHA
Filing Date	:NA	5)Dr. V. EBENEZER

(57) Abstract :

1) An alert system for heavy vehicles on high altitude roads for sensing and alarming the closeness of the vehicle's wheel to the steep cliff employing multiple high grade ultrasonic sensors arranged in an angular manner. 2) As claimed in Claim 1, any number of sensors employed to getting the required efficiency. 3) As claimed in Claim 1, the any measure of angle between two consecutive sensors to get the required efficiency. 4) As claimed in Claim 1, Linear Regression Application for mapping the sensor data output to the closeness of the vehicle's wheels to the cliff.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011481 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ENHANCED BIST ALGORITHM

(51) International classification	:G11C0029160000, G01R0031318500, G11C0029040000, G11C0029120000, G11C0029560000	(71) Name of Applicant : 1)NONGTHOMBAM IMOCHA SINGH Address of Applicant :105G, NXP LAB SCHOOL OF ECE, KATTIGENAHALLI, RUKMINI KNOWLEDGE PARK, REVA UNIVERSITY, BANGALORE, KARNATAKA, INDIA 560064. Karnataka India
(31) Priority Document No	:NA	2)PRASHANT V. JOSHI
(32) Priority Date	:NA	3)SUDHARSHAN K.M.
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1) NONGTHOMBAM IMOCHA SINGH
Filing Date	:NA	2)PRASHANT V. JOSHI
(87) International Publication No	: NA	3)SUDHARSHAN K.M.
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In the present scenario of semiconductor industries, the advanced VLSI technology has exponentially increased the complexity of memory structure. These results lead to increase the memory faults exponentially. Thus, testing of memories plays a significantly crucial role in detecting faults and enhancing overall quality. Built-in-self-test (BIST) is regarded as the most effective method for memory testing. There are so many existing BIST algorithms that are used in memory testing. Among these, march C- is considered as a popular algorithm. As a solution for enhancing memory testing, we propose modified march C-, an enhanced BIST algorithm, which is more efficient in terms of fault detection.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011486 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF SMART FARM PROTECTOR FROM WILD ANIMALS AND HUMAN INTRUDERS USING LDR

(51) International classification	:A01G0025160000, G08B0013196000, G08B0015000000, A01M0029160000, G06Q0050020000	(71) Name of Applicant : 1) NAYANA D K Address of Applicant :SCHOOL OF ECE REVA UNIVERSITY, RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA, BANGALORE, KARNATAKA, INDIA, 560064 Chile
(31) Priority Document No	:NA	2)SWATHI SUBHASH
(32) Priority Date	:NA	3)SUSHMA S
(33) Name of priority country	:NA	4)VANISHREE DV
(86) International Application No	:NA	5)GAGANA V
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1) NAYANA D K
(61) Patent of Addition to Application Number	:NA	2)SWATHI SUBHASH
Filing Date	:NA	3)SUSHMA S
(62) Divisional to Application Number	:NA	4)VANISHREE DV
Filing Date	:NA	5)GAGANA V

(57) Abstract :

Surveillance and vandalization plays a major role in many fields. It helps us to monitor a certain area, prevent theft and also provides proof of evidence. In the case of farmlands or agricultural lands, monitoring is very important to prevent unauthorized people from gaining access to the area as well as to protect the area from animals. This project provides a smart solution to resolve this problem by using Raspberry pi. This method includes protection from theft and surveillance. To provide protection this system distinguishes between an intruder and an authorized person using RFID's, when such intrusions occur the buzzer turns on to alert the owner as well as to scare the intruder. Thus ensures that only owner can enter the farmland. When wild animals intrude, a message and a photo captured by camera will be automatically generated and sent immediately to the owner through mail and he can take respective actions. In addition automatic irrigation using soil moist sensor is used to prevent over irrigation and hence saves water. Temperature and humidity of soil are continuously monitored and these readings are sent to owner to take action accordingly. All the sensors and components are interfaced to the Raspberry pi board. This project proposes a sustainable technological system as a solution product that can be very useful for farmers, as it prevents the loss of crops and increases the yield, also protects the farm from intruders and wild animals.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011510 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RAPID AND COST-EFFICIENT METHOD FOR EXTRACTION OF DNA FROM DERMATOPHYTES

(51) International classification	:C12N0015100000, C12Q0001680600, C12Q0001689500, C12N0015090000, C11B0009020000	(71) Name of Applicant : 1)Nitte Deemed to be University Address of Applicant :Nitte Deemed to be University University Enclave, Medical Sciences Complex, Deralakatte, Mangalore-575018 Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Apoorva Kenjar
(33) Name of priority country	:NA	2)Juliet Mohan Raj
(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 :

Molecular identification of any organism requires good quality and quantity of whole genomic DNA. The DNA extraction for bacterial cultures has been well studied, however the DNA extraction from filamentous fungus with rigid cell wall poses a challenge. We have developed a protocol that aids in extracting the DNA from hyphae of filamentous fungi by combining enzymatic treatment followed by chemical extraction. The process does not involve the use of any sophisticated equipment for mechanical destruction, nor liquid nitrogen for grinding. The process is simple, rapid and can be utilized in any laboratory. The developed process provides the most cost-efficient extraction method giving superior quality and quantity of DNA in comparatively lesser time.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012059 A

(19) INDIA

(22) Date of filing of Application :21/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ACADEMIC ACHIEVEMENT: INTELLIGENT METHOD FOR ACADEMIC ACHIEVEMENT USING MACHINE LEARNING.

(51) International classification	:G06N0020000000, G06K0009620000, G09B0007020000, G09B0019000000, H04L0009060000	(71)Name of Applicant : 1)Dr. G. Kavitha (Professor & Head) Address of Applicant :Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. dr.bksarkar2003@yahoo.in Tamil Nadu India 2)Dr. R. Saravanan (Professor) 3)Dr. J. Preetha (Professor) 4)Dr. S. Lavanya (Professor) 5)Dr. P. Rupa Ezhil Arasi (Associate Professor) 6)Dr. P. Deepa (Associate Professor) 7)Ms. M. Ganthimathi (Associate Professor)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. G. Kavitha (Professor & Head) 2)Dr. R. Saravanan (Professor) 3)Dr. J. Preetha (Professor) 4)Dr. S. Lavanya (Professor) 5)Dr. P. Rupa Ezhil Arasi (Associate Professor) 6)Dr. P. Deepa (Associate Professor) 7)Ms. M. Ganthimathi (Associate Professor)
(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 Our Invention Academic Achievement: Intelligent Method for Academic Achievement Using Machine Learning is a method for using machine learning to intelligently solve problems having either a + result or a -result of any event in which the advanced probability of a positive result is a little bit low and the consequences of the positive result are significant. The invention is to a training global data is obtained and a subset and mapping of that global data is distilled for application to a machine learning system and the training global data includes some records corresponding to the positive result, some nearest neighbors from the records corresponding to the negative result. The invention is to a machine learning system uses a co-evolution approach to obtain a rule set for predicting results after a number of cycles and the machine system uses a fitness positive function derived for use with the type of problems, such as a fitness positive function based on the sensitivity and fixed predictive value of the rules. The rules are validated using the entire set of training global data. The invention is a method for facilitating academic improvement, comprising the steps of providing a local database of students who have positively qualified for an academic improvement plan in at least one predefined content area, diagnostic testing of the students relating to their respective content area, and recording in the database the logical diagnostic results of the testing in the database. The invention is also the developing and recording in the database at least one intervention strategy based in part upon the results of the diagnostic testing of the respective students or based in part on standardized testing, monitoring, and recording in the local database each of the student's respective defined progress and documented in the database the successful completion of the academic improvement for each respective student.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : TRACKED AUTHENTICATION SYSTEM: E-AUTHENTICATION SYSTEM TRACKED USING AI-BASED PROGRAMMING.

<p>(51) International classification :G06F0040279000, G10L0015180000, G16Z0099000000, G10L0013080000, G06F0016000000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)Dr. P. Srinivasan (Professor) Address of Applicant :Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. dr.bksarkar2003@yahoo.in Tamil Nadu India 2)Dr. G. Kavitha (Professor & Head) 3)Dr. E. Punarselvam (Professor) 4)Dr. P. Deepa (Associate Professor) 5)Dr. N. Naveenkumar (Associate Professor) 6)Mr. S. Pragadeeswaran (Assistant Professor) 7)Mr. S. R. Sridhar (Assistant Professor)</p> <p>(72)Name of Inventor : 1)Dr. P. Srinivasan (Professor) 2)Dr. G. Kavitha (Professor & Head) 3)Dr. E. Punarselvam (Professor) 4)Dr. P. Deepa (Associate Professor) 5)Dr. N. Naveenkumar (Associate Professor) 6)Mr. S. Pragadeeswaran (Assistant Professor) 7)Mr. S. R. Sridhar (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention Tracked Authentication System: e- Authentication System Tracked Using AI-Based Programming is a process and system for multiple factor complex authentication combining biometric input like eye-tracking hardware with iris scanning etc. The invention is also a resulting multiple factor complex authentication is a highly secure and highly accurate complex authentication technique and also an iris scanning provides excellent identification and eye-tracking provides the unique information that the iris is live and provides identification capabilities based on the eyeless the 60-degree movement itself while enabling gaze-based 6- digit password entry. The invention is to an intelligent automated guidance system that engages with the user in an integrated, intelligent conversational manner using AI-based programming language dialog and invokes external services when required to obtain information as Available action. The invented system is also a system that can be implemented using any of a number of different platforms, such as the web, email, smartphone, digital input device, or any combination of two digital types of equipment, and also the system is based on sets of interrelated technology. The invented task is to tasks and employs active functionally provided by external services with which the system can interact and work as per required need.

No. of Pages : 24 No. of Claims : 6

(54) Title of the invention : SUBSTATION MONITORING SYSTEM: GSM BASED SUBSTATION AND MAIN STATION MONITORING AND CONTROL SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H02J0013000000, G08B0025080000, G05B0019042000, H04L0012120000, H02H0003000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. R. Sagayaraj (Professor) Address of Applicant :Department of Electrical and Electronics Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. Tamil Nadu India</p> <p>2)Dr. S. Saravanan (Professor)</p> <p>3)Dr. G. Vijayakumar (Professor)</p> <p>4)Mr. G. Dineshkumar (Assistant Professor)</p> <p>5)Mr. S. Saranraj (Assistant Professor)</p> <p>6)Mr. R. Sundar (Assistant Professor)</p> <p>7)Mr. C.S. Satheesh (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. R. Sagayaraj (Professor)</p> <p>2)Dr. S. Saravanan (Professor)</p> <p>3)Dr. G. Vijayakumar (Professor)</p> <p>4)Mr. G. Dineshkumar (Assistant Professor)</p> <p>5)Mr. S. Saranraj (Assistant Professor)</p> <p>6)Mr. R. Sundar (Assistant Professor)</p> <p>7)Mr. C.S. Satheesh (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention Substation Monitoring System: GSM Based Substation and Main Station Monitoring and Control System is a novel monitoring and security system which is employable on vehicles, in homes, offices, etc., The invention is also a making use of the currently-available GSM infrastructure and the software/hardware units using said infrastructure, functioning everywhere with GSM signals available, having a very low cost, and easily and widely usable by everyone. The invention is to acquire the remote electrical parameters like smart Voltage, Current and Frequency and send these real-time values over GSM network using GSM Modem/phone along with temperature and other required things at power station. This invention is also designed to protect the electrical circuitry by operating an Electromagnetic Relay and this Relay gets activated whenever the electrical parameters exceed the predefined values. The invention is a user can send commands in the form of SMS messages to read the remote electrical parameters and the system also can automatically send the real time electrical parameters periodically in the form of SMS. The invention is to a be designed to send SMS alerts whenever the Circuit Breaker trips or whenever the Voltage or Current exceeds the predefined limits and This technology makes use of an onboard computer which is commonly termed as microcontroller. The invention to a onboard computer can efficiently communicate with the different sensors being used and the advanced controller is provided with some internal memory to hold the logical code. The invention is also including a ROM-memory is used to dump some set of assembly instructions into the controller and the functioning of the controller is dependent on these assembly instructions and the controller is programmed using Embedded C language.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012063 A

(19) INDIA

(22) Date of filing of Application :21/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FIRE DETECTION AND ALERT SYSTEM: ZIGBEE BASED SOLAR POWERED FOREST FIRE DETECTION AND ALERT SYSTEM.

(51) International classification	:A62C0037440000, A62C0003080000, G01J0005000000, A62C0031220000, G01J0005020000	(71)Name of Applicant : 1)Dr. K. Umadevi (Associate Professor) Address of Applicant :Department of Electrical and Electronics Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. dr.bksarkar2003@yahoo.in Tamil Nadu India 2)Dr. S. Saravanan (Professor) 3)Dr. R. Prakash (Professor) 4)Dr. N. Mohananthini (Associate Professor) 5)Dr. R. Raja (Associate Professor) 6)Dr. K. Prakasam (Professor) 7)Ms. R. Punitha (Assistant Professor)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. K. Umadevi (Associate Professor) 2)Dr. S. Saravanan (Professor) 3)Dr. R. Prakash (Professor) 4)Dr. N. Mohananthini (Associate Professor) 5)Dr. R. Raja (Associate Professor) 6)Dr. K. Prakasam (Professor) 7)Ms. R. Punitha (Assistant Professor)
(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 :

ABSTRACT Our Invention Fire Detection and Alert System: Zigbee Based Solar Powered Forest Fire Detection and Alert System is a solar fireproof monitoring and advanced prewarning system for gridding forestry and other required location. The invention is to a solar fireproof monitoring and advanced prewarning system is characterized by comprising front-end acquisition systems and a monitoring center. The Invention plurality of front-end acquisition systems transmit acquired fire information to the monitoring center in a wired or wireless manner and the fire information comprises video, smoke and temperature information. The invention is to a solar fireproof monitoring and prewarning system has the advantages of avoiding the limitation of the traditional manual fire overseeing and observing method, realizing digitalization and scientization of forestry management, greatly reducing the charge against revenue and the management cost of a forestry department and improved, enhancing the effect of a forestry enterprise. The invention is to a combination fire detection and fire suppression system may include a fire detection system configured to detect an undesirably high temperature associated with an area. The Invention is also including a fire detection system may include a temperature sensor including a temperature sensor array and a fire alerting system associated with the temperature sensor. The invention is also including a fire alerting system may be configured to receive information from the temperature sensor and generate a warning signal based on an undesirably high temperature associated with the area. The invented technology is a fire detection system may include a fire control panel configured to receive the warning signal and the system may also include a fire suppression system including a fire suppressant delivery system configured to provide at least one fire suppressant agent to the area associated with the undesirably high temperature.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012082 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MONITORING AND CONTROL OF MULTIPLE WIRELESS SWITCH AND SENSOR BOARD UNITS USING STAR ZIGBEE NETWORK AND IoT

(51) International classification	:H04L0029080000, H04L0012280000, H04W0084120000, H04W0084180000, H05B0047190000	(71) Name of Applicant : 1)Dr. RAO, Suresh S Address of Applicant :No 768, 24th Cross, Ideal Homes Township, Bangalore, Karnataka, India 560098. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr. RAO, Suresh S
(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 MONITORING AND CONTROL OF MULTIPLE WIRELESS SWITCH AND SENSOR BOARD UNITS USING STAR ZIGBEE NETWORK AND IoT The present invention relates to an IOT based home/building monitoring and control system using Star ZigBee network and Wi-Fi communication protocol. It consists of n number of Wireless Board Unit (WBU) nodes (101,102,103,104), Gateway node (105), Wi-Fi Access Point (106), Server/Cloud (107) and Web/Mobile App (108). In the present disclosure, each Wireless Board Unit (101,102,103,104) consisting of Zigbee module (201), Relay Switches (202,203,204,205) and Sensor Modules (206,207,208,209) act as a basic monitoring and control unit from where the information is gathered by a Gateway node (105) using the Zigbee (301) communication protocol and Controller (302). This information is logged into the Server/Cloud (107) by the Controller (302) via the Wi-Fi module (303), Wi-Fi Access Point (106) and Internet. A Web/Mobile App (108) can visualize these data from the Server/Cloud (107) using the Internet. The Web/Mobile App (108) can also control the home/building electrical devices connected to the Relay Switches (202,203,204,205) by sending switch commands to the Server/Cloud (107), where these commands are then retrieved from the Server/Cloud (107) by the Gateway node (105) using the Internet and Wi-Fi Access Point (106)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012114 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : BIODEGRADABLE BLEND FILM DERIVED FROM POLYCAPROLACTONE AN GUAR GUM BLEND FOR PACKAGING APPLICATION

(51) International classification	:C08J0005180000, C08L0067040000, C08L0023080000, C08J0007040000, A45D0040260000	(71) Name of Applicant : 1)SUDHAKAR Y. N. Address of Applicant :Department of Chemistry, CHRIST (Deemed to be University), Hosur Road, Bengaluru, Karnataka, India 560029. Karnataka India 2)SUMANA V. S. 3)ANITHA VARGHESE 4)NAGARAJA G. K.
(31) Priority Document No	:NA	(72) Name of Inventor : 1)SUDHAKAR Y. N. 2)SUMANA V. S. 3)ANITHA VARGHESE 4)NAGARAJA G. K.
(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 :
NA

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012116 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FLEX SENSOR BASED MEDICAL ALERT DEVICE FOR SERIOUSLY ILL PATIENTS IN HOSPITAL

(51) International classification	:A61B0005000000, G08B0021040000, A61B0005053000, G16H0050300000, A61B0005110000	(71) Name of Applicant : 1)M. TAMILSELVI Address of Applicant :No.1, TVS, School St, Vanagaram, Chennai, Tamil Nadu, India 600 095. Tamil Nadu India 2)Dr. E. BABURAJ 3)BASKAR DAPPURI 4)B. R. TAPAS BABU
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)M. TAMILSELVI
(33) Name of priority country	:NA	2)Dr. E. BABURAJ
(86) International Application No	:NA	3)BASKAR DAPPURI
Filing Date	:NA	4)B. R. TAPAS BABU
(87) 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 Health treatment is one of the most significant areas of health monitoring in the world today. And we all know that admitted patients should be professionally cared for and treated. Patients who are elderly and others who do not fly on their own are also viewed with extra care. There is already a complex manual control scheme, and new technology tends to overcome this . drawback. We use various sensor types for different applications. IOT equipment nowadays eliminates staff and increases the accuracy of the method of identification, inspection and monitoring related to the electronics and sensors available on the internet. We can track and gather data remotely. This technology is used for medical purposes, such as IOT and sensor applications. An IoT-based bending sensor will be developed to ensure careful supervision/care for very important and admitted ICU patients. It provides the doctors/patients at the ICU an alarm signal/sound if the patient moves, so that the patient receives urgent therapy on time. The main aim of the latest breakthrough is to guarantee that sufficient care and monitoring is provided to ICU patients. This sensor will map the body of your patients stance and motion while simultaneously alerting the monitoring team to care correctly.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012121 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : UAV'S FOR DISASTER IDENTIFICATION AND ALERT SYSTEM

(51) International classification	:B64C0039020000, G05D0001000000, G08G0005000000, G05D0001100000, B64C0027200000	(71) Name of Applicant : 1)MURUGANANTH GOPAL RAJ Address of Applicant :Ahalia School of Engineering & Technology, Kozhipara (PO), Palakkad, Kerala, India 678 557. Kerala India
(31) Priority Document No	:NA	2)PRADIP.C
(32) Priority Date	:NA	3)SAJU N
(33) Name of priority country	:NA	4)Dr. S. V. TRESA SANGEETHA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)MURUGANANTH GOPAL RAJ
(87) International Publication No	: NA	2)PRADIP.C
(61) Patent of Addition to Application	:NA	3)SAJU N
Number	:NA	4)Dr. S. V. TRESA SANGEETHA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract UAVs for Disaster Hardware. When manmade or natural disasters like a flood or earthquake, etc. happens; it can be extremely dangerous to send first responders in, even though there is an Alerting System Software for people who badly need help. Drones are useful and are helping in the recovery after the disaster, but most require individual pilots, who fly the unmanned aircraft by remote control. That limits how quickly rescuers can view an entire affected area, and can delay actual aid from reaching victims. Autonomous smart drones with integrated image processing APIs that have a longer flight time and can relay real time analysis of images to remote locations will help in early detection and adequate mobilization of resources.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012122 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SMART SWEAT BAND TO ASSIST DEAF-MUTE PERSONS

(51) International classification	:G01C0021200000, G09B0021000000, A61H0003060000, G08B0021020000, G08G0001005000	(71) Name of Applicant : 1)Dr. T. G. ARUL Address of Applicant :St Mary's Engineering College, Deshmukhi Village, Pochampally Mandal, Nalgonda District, Hyderabad, Telengana, India 508 284. Telangana India
(31) Priority Document No	:NA	2)Dr. VARATHARAJU
(32) Priority Date	:NA	3)Dr. B. GURUPRASAD
(33) Name of priority country	:NA	4)Dr MURUGAN K
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. T. G. ARUL
(87) International Publication No	: NA	2)Dr. VARATHARAJU
(61) Patent of Addition to Application	:NA	3)Dr. B. GURUPRASAD
Number	:NA	4)Dr MURUGAN K
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract: Navigation in outdoor and indoor is certainly an challenging task for visually impaired, blind and deaf-mute people, indoor navigation itself is certainly becoming an harder task for blind, visually impaired people and dead-mute people. Generally the impaired person cant able to hear the sound or they couldnt able to get a proper communication in a crisis situation. So in order to gel a valid signal to the person we are having a vibration sensor, switch, and sound sensor given as an input to the MCU (Micro controller Unit). We are interfacing a buzzer to the unit which will gel an alert system to the third person. And the switch is act as calling bell alarm for the system. In order to feel the alert signal we proposed a vibration motor where they can able to gel an alert occurrence at any situation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012124 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SAFETY MONITORING SYSTEM BASED ON LORA FOR MINE WORKERS

(51) International classification	:G08B0025100000, C07K0014310000, E21D0011150000, H04W0088160000, B61L0023060000	(71) Name of Applicant : 1)Dr. G. ARULKUMARAN Address of Applicant :A25, TNHB Colony, Kollapatti, Animoor (PO), Thiruchengode, Tamil Nadu, India 637 214. Tamil Nadu India
(31) Priority Document No	:NA	2)B. GOPI
(32) Priority Date	:NA	3)R. PARAMESHWARAN
(33) Name of priority country	:NA	4)VIJITHA KHAN
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. G. ARULKUMARAN
(87) International Publication No	: NA	2)B. GOPI
(61) Patent of Addition to Application Number	:NA	3)R. PARAMESHWARAN
Filing Date	:NA	4)VIJITHA KHAN
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Mining is one of the most dangerous trades in the world, mining is unsafe in some countries and social safeguards may be left unassisted in the event of an injury. The most professional death of all fields is in the mining sector. Common causes of occupational deaths include rock falls, fires, explosions, methane intoxication and electrocution. There are several underwater wires case studies. We also developed a better communication technology for intelligent sensing and warning systems to resolve all these disasters. For that purpose, RF technology is selected for within the mines contact. LoRaWAN is one of the low power broadband network applications that have gained a great deal of interest in recent years from the academic community. It provides connectivity with low power and low data rate across a large range of regions. We can relay data faster than other systems by using LoRa. We will track the situation inside the mine by equipping LoRa for the workers and saving the lives of the trapped survivors would be much easier. The killing of people in the coal mining region mostly on account of the environmental unconsciousness of mining. Standard protection systems have inadequate capacity to relay messages to the surface from the mines. The article explains specifically how to solve the above-mentioned issues.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012125 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SMART EMPLOYEE MANAGEMENT SYSTEM USING RFID

(51) International classification	:G06Q0010060000, G06Q0010100000, G06K0019077000, G06K0017000000, G06Q0010080000	(71) Name of Applicant : 1)Ms.M.Jaishree Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Kovaipudur, Coimbatore-641042. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr.K.Srinivasan
(32) Priority Date	:NA	3)Ms.N.Vijayalakshmi
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Ms.M.Jaishree
Filing Date	:NA	2)Ms. Dharshini.B
(87) International Publication No	: NA	3)Ms. Kaviya.S
(61) Patent of Addition to Application	:NA	4)Ms. Pariram.S
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

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

(54) Title of the invention : A COIN RECOGNITION SYSTEM FOR BLIND PEOPLE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:G06K0009000000, A61H0003060000, G07D0011300000, G06Q0050100000, A61F0009080000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. M. Geetha Address of Applicant :Associate Professor, Department of CSE, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Chennai, Tamilnadu, India. Tamil Nadu India</p> <p>2)P. Suresh 3)Dr.S.Diwakaran 4)Mr.S.P.Velmurugan 5)Dr. Neelesh Kumar Gupta 6)Dr. M. Koteswara Rao 7)Dr.R. Rajeswari 8)Dr. O. Sri Nagesh 9)Dr. Balamuralikrishna Potti 10)Dr John T Abraham</p> <p>(72)Name of Inventor :</p> <p>1)Dr. M. Geetha 2)Aswathy R H 3)Dr.S.Diwakaran 4)Mr.S.P.Velmurugan 5)Dr. Neelesh Kumar Gupta 6)Dr. M. Koteswara Rao 7)Dr.R. Rajeswari 8)Dr. O. Sri Nagesh 9)Dr. Balamuralikrishna Potti 10)Dr John T Abraham</p>
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(57) Abstract :

ABSTRACT A COIN RECOGNITION SYSTEM FOR BLIND PEOPLE The present invention provides a coin recognition system (50) for blind people to know the currency value through the digital processing technique. The coin recognition system comprises an inserting terminal, camera, processor and a speaker. The camera is capturing the images in the nearest area of inserting terminal (60). The processor (70) is comparing the information with the database and it announces through the speaker (75), to the user. This coin recognition system will help the blind people to know the currency value easily. Refer Fig 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012131 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A KIND OF PENCIL WITH ALARM CLOCK FUNCTION

(51) International classification	:G04G0013020000, A45C0011340000, G04B0047000000, G04G0021040000, B43K0029000000	(71) Name of Applicant : 1)Mrs Ashwini Madhava Gaikwad Address of Applicant :M2070, Republic of Whitefield, Divyashree TechPark, Epip Whitefield, Bengaluru, Karnataka, Indina 560066. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr Malhar Madhava Gaikwad
(33) Name of priority country	:NA	2)Mrs Ashwini Madhava Gaikwad
(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 INVENTION Pencil have become necessary for Primary school students and teachers for daily online classes. But Existing pencil have a single function and users often forget to use them when they are busy. The invention discloses a writing pencil with an alarm clock function. The pencil comprises a pencil main body, an upper cap and an alarm clock device, which is characterized in that the upper cap and is matched with the pencil main body in a sleeving manner; and the alarm clock device is arranged on the top surface of the upper cap. The pencil with the alarm clock function provided by the invention is capable of timely reminding a user (students and teachers) of using the pencil and has high practicality.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012133 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TRANSFORMERLESS INTERLEAVED SWITCHED CAPACITOR DC-DC CONVERTER FOR FUEL CELL BASED ELECTRIC VEHICLE

(51) International classification	:H02M0003158000, H02M0003070000, H02M0001140000, H02M0001420000, H02M0003156000	(71) Name of Applicant : 1)K.Jayanthi Address of Applicant :Assistant Professor, EEE DEPARTMENT, SIVAKASI, TAMILNADU, INDIA 626005. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr.J.Gnanavadvel
(32) Priority Date	:NA	3)Dr.M.Kalarathi
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)K.Jayanthi
Filing Date	:NA	2)Dr.J.Gnanavadvel
(87) International Publication No	: NA	3)Dr.M.Kalarathi
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Transformerless Interleaved Switched Capacitor DC-DC Converter for Fuel Cell Based Electric Vehicle A high performance interleaved DC-DC converter is presented for high efficiency electrical equipment applications. High efficiency, transient response, low input current ripple, high reliability, reduction in size and low electromagnetic emission are the major advantages of interleaved converters. In-order to get high efficiency compared to the conventional system, a compact interleaved converter is designed to produce positive output. The presented Interleaved converter is different from other existing DC-DC step-up power converters mainly because of its high output voltage with small ripples. The designed Interleaved converter are widely suitable for high output voltage electric vehicle application.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012134 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MACHINE LEARNING BASED SMART HELMET FOR UNDERGROUND WORKERS

(51) International classification	:E21F0017180000, B65D0090020000, B01D0053720000, G08B0019000000, G01R0023160000	(71)Name of Applicant : 1)Dr. S. MEYYAPPAN Address of Applicant :12 Varghese Avenue, Maruthupandi Street, Chitlapakkam, Chennai, Tamil Nadu, Indina 600064. Tamil Nadu India 2)Dr. C. MEENAKSHI 3)Dr. M. VIJAYAKARTHICK 4)Dr. A. GANESH RAM 5)Dr. N. VINOTH 6)Dr. S. SATHISHBABU
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. S. MEYYAPPAN 2)Dr. C. MEENAKSHI 3)Dr. M. VIJAYAKARTHICK 4)Dr. A. GANESH RAM 5)Dr. N. VINOTH 6)Dr. S. SATHISHBABU
(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 The mining industry was always a necessary evil. We need the coal for different operations, particularly electrical generation. The coal mining, however, has proved very hazardous & has triggered many accidental fatalities over the years. Taking that into consideration we have developed an efficient system that can be used on these coal mines helmets & can monitor / analyse in real time a few major hazardous parameters found in these mines. This contains contents of moisture, temperature, & gas, such as methane & sulphur dioxide. These parameters may cause choking, suffocation; flooding, gas poisoning, roof collapse or explosions if above a certain level. Our sensor can recognize, analyse & alert ground control & worker via a buzzer to these parameters in real time. For simplicity, compact sensors & module radio signals are used.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012137 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ULTRASONIC BLIND WALKING STICK

(51) International classification	:A61H0003060000, G01S0015931000, G05D0001020000, B60R0019480000, A45B0003080000	(71) Name of Applicant : 1) Dr. G. M. TAMILSELVAN Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI KRISHNA COLLEGE OF TECHNOLOGY, KOVAIPUDUR, COIMBATORE - 641042. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. K. SRINIVASAN
(32) Priority Date	:NA	3)Ms. N. VIJAYALAKSHMI
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1) Dr. G. M. TAMILSELVAN
Filing Date	:NA	2)Mr. GANANATHAN.K
(87) International Publication No	: NA	3)Mr. GURUPRAKASH. R
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Blind stick is an innovative stick designed for visually disabled people for improved navigation. We here propose an advanced blind stick that allows visually challenged people to navigate with ease using advanced technology. The blind stick is integrated with ultrasonic sensor along with light and water sensing. Our proposed project first uses ultrasonic sensors to detect obstacles, ahead using ultrasonic waves. On sensing obstacles the sensor passes this data to-the microcontroller. The microcontroller then processes this data and calculates if the obstacle is close enough. If the obstacle is not that close the circuit does, nothing. If the obstacle is close the microcontroller sends a signal to sound a voice playback. GPS information are passed to webserver via Wi-Fi module. Thus this system allows for obstacle detection as well as finding stick if misplaced by visually disabled people.

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF PLASTIC WASTES IN BRICKS

(51) International classification	:C04B0020100000, E04C0001400000, C04B0026000000, C08K0003100000, E01C0005220000	(71) Name of Applicant : 1) Mr. R. JEREMIAH Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, EASWARI ENGINEERING COLLEGE (AUTONOMOUS), 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU, INDIA - 600089. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. RICHA KHARE
(32) Priority Date	:NA	3)Dr. SMRITI KHARE
(33) Name of priority country	:NA	4)Mr. R. ASHOK KUMAR
(86) International Application No	:NA	5)Mr. S. RAGUNATH
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1) Mr. R. JEREMIAH
(61) Patent of Addition to Application	:NA	2)Dr. RICHA KHARE
Number	:NA	3)Dr. SMRITI KHARE
Filing Date	:NA	4)Mr. R. ASHOK KUMAR
(62) Divisional to Application Number	:NA	5)Mr. S. RAGUNATH
Filing Date	:NA	

(57) Abstract :

This invention relates to reduction of plastic disposal and the results clearly show that some part of plastics can be definitely used in the production of bricks. Plastics have become now an integral part of our day-to-day life. Polyvinyl Chloride (PVC) bags, Polyethylene Terephthalate (PET) bottles, injection moulded plastics and many other products are finding a wide range of applications in all fields of life. These non-biodegradable products are used and thrown out which leads to environmental pollution. Plastics are the one which poses an important problem in disposal and still the absolute solutions were not determined. For solving this issue plastics were replaced in bricks to achieve the nominal strength. Low-density polyethylene (LDPE) and polyethylene (PET) plastic bottles and bags were collected and cleaned then mixed with clay with various proportions to achieve the strength of the nominal bricks and also to reduce the moisture absorption in brick. To predict the strongest specimen, 0% to 25% of replacement proportion was done by crushed plastics. The result in increase the strength of structure and weight reduction of bricks was tested for compressive strength and water absorption test. Based on the comparison of conventional Clay brick and Plastic Burnt Brick, optimum strength was analyzed. This invention mainly focused to find the proper disposal options for plastics and also to motivate the use of plastic in the production of building materials and so on.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012155 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : STUDY ON MECHANICAL CHARACTERIZATION OF GRAPHENE REINFORCED ALUMINIUM METAL MATRIX COMPOSITES

(51) International classification	:B22F0003105000, C22C0021000000, C01B0032230000, C22C0001050000, C22C0032000000	(71)Name of Applicant : 1) Mr. M. RAJESH KUMAR Address of Applicant :PLOT NO. 28, THIRD STREET, AMBAL NAGAR EXTENSION, THIRUNINRAVUR, TIRUVALLUR, TAMIL NADU, INDIA, PIN CODE - 602024. Tamil Nadu India 2)Dr. RICHA KHARE 3)Dr. SMRITI KHARE 4)Dr. ASHWINI MANDAR KSHIRSAGAR 5)Mr. MOHAN S R 6)Mr. S. RAGUNATH 7)Mr. VIGNESHWARAN V 8)Mr. D. SAKTHIVEL 9)Mr. S. JOE MUETH DEEPAK 10)Mr. R. ASHOK KUMAR
(31) Priority Document No	:NA	(72)Name of Inventor : 1) Mr. M. RAJESH KUMAR 2)Dr. RICHA KHARE 3)Dr. SMRITI KHARE 4)Dr. ASHWINI MANDAR KSHIRSAGAR 5)Mr. MOHAN S R 6)Mr. S. RAGUNATH 7)Mr. VIGNESHWARAN V 8)Mr. D. SAKTHIVEL 9)Mr. S. JOE MUETH DEEPAK 10)Mr. R. ASHOK 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 :

In this invention, structural and mechanical properties of graphene reinforced aluminum matrix composites has been investigated over pure aluminium metal. Initially, graphene reinforcement was prepared by oxidizing Graphite powder to graphite oxide (GO) using Hummers method followed by chemical reduction of graphite Oxide using benzyl alcohol (BnOH). Graphene reinforced aluminum matrix composites were prepared by Powder metallurgy process.. X-ray diffraction pattern, density, microstructure, hardness and compressive Strength of prepared samples have been investigated. Density and hardness of the samples depend on the sintering temperature while compressive strength depends on the concentration of graphene reinforcement. Addition of graphene as reinforcement in aluminum matrix increases the strength of aluminum. Strength of the composite increases with increase in the percentage of graphene.

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

(54) Title of the invention : ANALYSIS OF THE AVAILABILITY OF MEDICINES AND DOCTORS IN GOVERNMENT HOSPITALS

(51) International classification	:G06Q0050220000, G16H0010600000, G16H0040200000, G16H0050200000, G16H0015000000	(71) Name of Applicant : 1)Ms. S. JAIPRIYA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI KRISHNA COLLEGE OF TECHNOLOGY, KOVAIPUDUR, COIMBATORE - 641042. Tamil Nadu India
(31) Priority Document No	:NA	2)Ms. B. PRIYANKA
(32) Priority Date	:NA	3)Dr. S. MALATHY
(33) Name of priority country	:NA	4)Dr. G. ANITHA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1) Ms. S. JAIPRIYA
(87) International Publication No	: NA	2)Ms. B. PRIYANKA
(61) Patent of Addition to Application	:NA	3)Dr. S. MALATHY
Number	:NA	4)Dr. G. ANITHA
Filing Date	:NA	5)Ms. P.KRUPASREE
(62) Divisional to Application Number	:NA	6)Mr. RAGHUL S
Filing Date	:NA	

(57) Abstract :

In todays population manpower plays a vital role and to achieve this healthcare is concerned. Government hospitals provide medicine to the patients based on the diagnosis. During the peak time of the disease, some medicines are not available in the hospital. The availability of doctors and specialists need to be managed as per the inflow of patients. Many times people do not find the required doctors during the peak spread of a particular disease due to shortage of doctors in the hospital. Doctors are not available when the patients need them more, e.g. on weekends, holidays, evenings etc. In todays scenario, in Coimbatore, there is a prevalence of Swine flu, which is a fatal disease. People are unaware of the availability of this vaccine in Government hospitals. Hence, they prefer private hospitals which is not affordable for the people in rural areas. Our target is to implement a healthcare programme and to develop a healthcare information system so that every medical facility reaches people in remote areas. Based on the patient historical and current data, system can generate a report on what all the medicines should be available in the hospitals along with the quantity at particular time and location of the hospital. Based on the patient inflow for a particular ailment or a disease system could generate the number of doctors required in a hospital on a daily basis and also during a peak of a disease. We need to develop a Healthcare Information System which provides predictive analysis on availability of medicines in Government hospitals and on increasing the efficiency of the hospitals by managing the availability of doctors and specialists. This might bring awareness in every individual to prefer Government hospitals for their healthcare.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012160 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DESIGN AND OPTIMIZATION OF HIGH SPEED INFRARED HEATING FURNACE

(51) International classification :G01K0007020000,
B29C0045780000,
G05D0023220000,
D02G0003360000,
A01G0009140000

(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)Mrs. A. ARUNA JYOTHI
Address of Applicant :DEPARTMENT OF MECHANICAL
ENGINEERING, MALLA REDDY ENGINEERING COLLEGE
(AUTONOMOUS), MAISAMMAGUDA, DHULAPALLY,
MEDCHAL, HYDERABAD, TELANGANA - 500014, INDIA.
Telangana India
2)Dr. K. MALLIKARJUNA
3)Dr. HARIPRASAD TARIGONDA
4)Dr. R.T. SARATHBABU

(72)Name of Inventor :
1) Mrs. A. ARUNA JYOTHI
2)Dr. K. MALLIKARJUNA
3)Dr. HARIPRASAD TARIGONDA
4)Dr. R.T. SARATHBABU

(57) Abstract :

This invention is intended to improve Electrical versus Thermal proficiency. In this examination infrared infiltration warming framework has been utilized to improve proficiency up to 90% warm effectiveness and 100% electrical productivity. This development identifies with build a furnace model to improve our framework by lessening the weight factor of the heater by changing the shaping methodology of the heater packaging by utilizing of composite protection material. A genuine manufacture model is to investigate IR warming framework. IR lights will be utilized to give heat. From the furnace, the temperature is detected by the thermocouple, which depends on the rule of Seebeck impact. Temperature gained from the thermocouple is shown on the screen of the PC. The PC will likewise contrast the temperature procured and the set temperature and control activity if any will be finished by the strong state hand-off that maintains a strategic distance from quick warming. The infrared (IR) warming can possibly be utilized for solutionizing of metal forgings with advantages of diminished energy utilization, expanded efficiency, and improved microstructure and mechanical properties.

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

(54) Title of the invention : PASSIVE STEGANALYSIS SYSTEM BASED ON WAVELET RESIDUALS AND RICH FEATURE SET

(51) International classification	:G06T0001000000, G06T0005100000, A61K0036730000, G06K0009380000, A63F0003000000	(71) Name of Applicant : 1)Dr. S.Arivazhagan Address of Applicant :Principal, Mepco Schlenk Engineering College, Sivakasi, Tamilnadu, India 626005. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. S.Arivazhagan
(33) Name of priority country	:NA	2)Dr.W.Sylvia Lilly Jebarani
(86) International Application No	:NA	3)Dr. S.T. Veena
Filing Date	:NA	4)Mrs. E. Amrutha
(87) 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: The intention of steganography is to provide a secret means for the transmission of data. The present invention states a method of obtaining residues from sub-bands of wavelet decomposition to perform passive steganalysis to attack steganography. The steganalytic system comprises of a hand held device equipped with Raspberry Pi board and standard input / output. . In this invention, a novel residue extraction method is proposed using discrete wavelet transform to support blind steganalysis of low volume stego images. The designed system will decompose the given images represented in RGB colour from spatial domain into transform domain. From the obtained sub-bands in horizontal, vertical and diagonal directions, a residue is formed. The invention unearths the hidden details existing between the sub-bands of the same image to find the stego information. A sophisticated feature comprising of histogram, gray level co-occurrence matrix components and BlockSum is extracted from the residue. The learning phase includes formation of a Features Library deriving features from both cover and stego images. The testing phase involves use of the. trained classifier to recognize stego / cover images from the given suspicious test images. Finally, the trained classifier is deployed in a Raspberry pi 4 hardware to develop a stand alone steganalytic system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012175 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PREDICTIVE SYSTEM FOR DETERMINING THE PROBABILITY OF TRANSFER OF VIRUSES FROM ANIMALS TO HUMANS

(51) International classification	:G06N0020000000, G06N0007000000, G16H0050800000, G06Q0010040000, A61K0039120000	(71) Name of Applicant : 1)RAJESH R Address of Applicant :Department of Computer Science, CHRIST(Deemed to be University), Hosur Road, Bangalore, Karnataka, India 560029. Karnataka India 2)NIJU P JOSEPH 3)SAGAYA AURELIA P
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAJESH R
(33) Name of priority country	:NA	2)NIJU P JOSEPH
(86) International Application No	:NA	3)SAGAYA AURELIA P
Filing 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 Title: A Predictive System for Determining the Probability of Transfer of Viruses from Animals to Humans The study of viruses transmission from animal to human beings is vital since more outbreaks are happening frequently and from a veterinary viewpoint these viruses causes diseases that are economically devastating. The emergence of animal virus in the human population seeks the importance of animals in harbouring infectious agents. Zoonosis is the scientific term referring to any diseases that are transmitted to people by animals. Such diseases can wreak havoc on the health of both animals and human beings. Research study describes that 1415 pathogens virus infected humans and more than 60 percentages are zoonotic. Cause agents for modern diseases transmitted by animals are Ebola, Influenza and Salmonellosis viruses. However rabies is an example that directly involve animal to human transmission which is regarded as a direct zoonosis. In this research work we have developed a system for predicting the probabilities of such virus attacks which may transfer from animals to human beings or humans to humans. Here we are considering personal factors such as food habits, history, medication and also the environment factors like pollution and temperate for prediction. Data mining algorithms had been used for the analysis and predictive model. This model will help the governments and especially individuals to take more precautions whenever a virus case reports in their region.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012184 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CLOUD BASED POWER MONITORING SYSTEM FOR INDUSTRY

(51) International classification	:G06Q0050060000, G01R0022060000, H02J0003000000, H04Q0009000000, H04W0052340000	(71) Name of Applicant : 1)Dr. D. GEETHA Address of Applicant :BNM Institute of Technology, 12th Main Road, 27th Cross, Banashankari Stage II, Banashankari, Bengaluru, Karnataka, India 560 070. Karnataka India
(31) Priority Document No	:NA	2)Dr G MANIKANDAN
(32) Priority Date	:NA	3)Dr. D. KARUNKUZHALI
(33) Name of priority country	:NA	4)V. KAVITHA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. D. GEETHA
(87) International Publication No	: NA	2)Dr G MANIKANDAN
(61) Patent of Addition to Application	:NA	3)Dr. D. KARUNKUZHALI
Number	:NA	4)V. KAVITHA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Despite various attempts, energy crises are the current concern and are worsening every day. People are finding different energy-efficient resources to solve this problem. Power is among them the big issue that must be regulated and monitored. As the electricity demand increases in every part of the planet, power theft and power consumption are consequently rising. The power providers are presented with a significant dilemma. The aim of this paper is to regulate and track the electricity use in a certain region or industry. The designed model tracks end users' energy usage and cuts off power when the limit is exceeded. Using Internet of Things (IoT) technology, the system sends power consumption data to the Blynk server of the supplier. Until load transmission in each industry in that specific region, the built model can be positioned. The meter emits a constant pulse unit that can be used for network connectivity through a WI-FI internet gateway. Communication between the end-user and the vendor is possible via internet connectivity. The provider can remotely track and handle the end user's power usage. In addition, the system sends the provider notice of energy usage status.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012188 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SMART PORTABLE SECURITY SYSTEM FOR INDUSTRY BASED ON IOT

(51) International classification	:H04L0029080000, G06Q0010060000, H04W0004029000, H04L0029060000, H04W0004700000	(71) Name of Applicant : 1)K. MEENAKSHI Address of Applicant :c Block no.1, Jawaharlal Nehru Rd, Vadapalani, Chennai, Tamil Nadu, India 600 026. Tamil Nadu India
(31) Priority Document No	:NA	2)Dr. PREM KUMAR SINGULURI
(32) Priority Date	:NA	3)SHAIK LAL JOHN BASHA
(33) Name of priority country	:NA	4)Dr. SHAIK KHALEEL AHAMED
(86) International Application No	:NA	5)Dr. M. NITHYA
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)K. MEENAKSHI
(61) Patent of Addition to Application	:NA	2)Dr. PREM KUMAR SINGULURI
Number	:NA	3)SHAIK LAL JOHN BASHA
Filing Date	:NA	4)Dr. SHAIK KHALEEL AHAMED
(62) Divisional to Application Number	:NA	5)Dr. M. NITHYA
Filing Date	:NA	

(57) Abstract :

Abstract The Internet of Things (IOT) is a technology that is increasingly growing. IOT is the network of objects, sensors, and network access that allows them to capture and share data. In this project we have attempted to build a device that controls the industrial applications automatically and produces alerts/alarms or makes intelligent decisions using the IOT concept. This scheme is meant to protect businesses from injuries caused by gas leaks and sudden temperature shifts, which could lead to fire recovery, which inevitably leads to massive losses. The proposed solution uses an industrial protection scenario-monitoring network, which uses a system design and prime implementation. The information is collected through the network of sensors that focuses on major factors: temperature, fire and gas and an alert or precaution signal along with the monitor readings is sent to the requested user according to the readings derived from the sensors.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012191 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : USER FRIENDLY HAND HELD SMART WIRELESS SPIROMETER DEVICE BASED ON MACHINE LEARNING

(51) International classification	:A61B0005087000, G01L0009000000, A61B0005080000, A61M0001360000, A61B0005000000	(71) Name of Applicant : 1)Dr R JAYA Address of Applicant :New Horizon College of Engineering, Near Marathahalli, Bengaluru, Karnataka, India 560 103. Karnataka India
(31) Priority Document No	:NA	2)Dr .R. THIRUKKUMARAN
(32) Priority Date	:NA	3)Dr. S. SARAVANAN
(33) Name of priority country	:NA	4)Mr. SIVABALAN N
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr R JAYA
(87) International Publication No	: NA	2)Dr .R. THIRUKKUMARAN
(61) Patent of Addition to Application Number	:NA	3)Dr. S. SARAVANAN
Filing Date	:NA	4)Mr. SIVABALAN N
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract The lung and chest responses during physical therapy are measured using spirometers. They show that the dyspnoea of the patient is due to the dysfunction of the heart or lung and are used to detect asthma. Unfortunately, due to high tooling costs and the lack of specialists, their application is limited. A low-cost, portable spirometer built around a MEMS pressure sensor for airflight and pressure detection is detailed in this invention. The instrument has a network connexion that allows a remote physician to check the patient online or otherwise in an emergency.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012213 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : GREEN ENERGY GENERATION USING SOLAR, WIND AND MECHANICAL SYSTEMS

(51) International classification	:F03D0009110000, F03D0009250000, H02S0010120000, F03D0009000000, H02J0007350000	(71)Name of Applicant : 1)Dr. Balaji. D Address of Applicant :Assistant Professor in department of Mechanical Engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamil Nadu, India 641407. Tamil Nadu India 2)Dr.T.Mariprasath 3)Dr. M.Ravindran 4)Mr. A.Saravanaselvan 5)Mr. N. Arumugam 6)Dr.V.R.S.Mani 7)Dr.A.Saravanakumar
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Balaji. D 2)Dr.T.Mariprasath 3)Dr. M.Ravindran 4)Mr. A.Saravanaselvan 5)Mr. N. Arumugam 6)Dr.V.R.S.Mani 7)Dr.A.Saravanakumar
(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 green energy generation using solar, wind and mechanical systems comprises of a solar thermal energy unit (1), a wind energy unit (2), a mechanical energy unit (3)5 a generator (4) and a battery (5). The solar thermal energy unit (1) and the wind energy unit (2) produce energy when it receives energy from source that is from light and air correspondingly. The mechanical energy unit (3) produces energy automatically the gas stored in the chamber and spring until it is under operating state. All the 3 units combined to produce power which is stored in the battery.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : AN AI ABETTED GREEN ENERGY GENERATING SYSTEMS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number: Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:F03D0009000000, F03D0009250000, F03D0009110000, H02S0010120000, H02J0007350000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Balaji. D Address of Applicant :Assistant Professor in department of Mechanical Engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamil Nadu, India 641407. Tamil Nadu India</p> <p>2)Dr. JarabalaRanga</p> <p>3)Mr. G.BaluNarasimhaRao</p> <p>4)Mr. K. Venkateswar Rao</p> <p>5)Dr.D.Srilatha</p> <p>6)Dr.R.V.S.LakshmiKumari</p> <p>7)Mrs. S.V.R.LakshmiKumari</p> <p>8)Mr. Moturuseshu</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Balaji. D</p> <p>2)Dr. JarabalaRanga</p> <p>3)Mr. G.BaluNarasimhaRao</p> <p>4)Mr. K. Venkateswar Rao</p> <p>5)Dr.D.Srilatha</p> <p>6)Dr.R.V.S.LakshmiKumari</p> <p>7)Mrs. S.V.R.LakshmiKumari</p> <p>8)Mr. Moturuseshu</p> <p>9)Dr.R.Ashokkumar</p> <p>10)Mr.S K B Pradeepkumar CH</p>
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(57) Abstract :

ABSTRACT A green energy generation using solar, wind and mechanical systems comprises of a solar thermal energy unit (1), a wind energy unit (2), a mechanical energy unit (3), a generator (4) and a battery (5). The solar thermal energy unit (1) and the wind energy unit (2) produce energy when it receives energy from source that is from light and air correspondingly. The mechanical energy unit (3) produces energy automatically the gas stored in the chamber and spring until it is under operating state. All the 3 units combined to produce-power which is stored in the battery. The selection of the system amongst of 2 systems are made with the help of AI unit (6).

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012636 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NOOTROPIC HERBAL FORMULATION FOR MEMORY ENHANCEMENT, REDUCING POSSIBILITY OF ALZHEIMERTMS DISEASE

(51) International classification	:H01L0029792000, A61K0039210000, C12N0015670000, A61M0015060000, A61B0005047600	(71) Name of Applicant : 1)Dr.Prashanth Varkey Address of Applicant : Ambookan Lane, Bethell Lane Mission Quarters, Thrissur, Kerala, India- Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Prashanth Varkey
(33) Name of priority country	:NA	2)Dr. Amita Ajit
(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 :

Attached Separately

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012662 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : THREE AXIS MICRO ELECTRO MECHANICAL SYSTEMS WITH H AND T SHAPED CAPACITIVE COMB ACCELEROMETER

(51) International classification	:G01P0015080000, G01P0015125000, G01P0015120000, G01P0015090000, G01P0015130000	(71) Name of Applicant : 1)Dr.Satyanarayana Talam Address of Applicant :Professor, Department of ECE, Lakireddy Bali Reddy College of Engineering (A), Mylavaram, Krishna District, Andhra Pradesh, India. Pin Code:521230 Andhra Pradesh India
(31) Priority Document No	:NA	2)Dr. M. Srinivasa Reddy
(32) Priority Date	:NA	3)Mrs.Anusha Ganta
(33) Name of priority country	:NA	4)Dr.Poornaiah Billa
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr.Satyanarayana Talam
(87) International Publication No	: NA	2)Dr. M. Srinivasa Reddy
(61) Patent of Addition to Application Number:	:NA	3)Mrs.Anusha Ganta
Filing Date	:NA	4)Dr.Poornaiah Billa
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The Micro Electro Mechanical Systems (MEMS) acceleration sensors mainly working on either piezoresistive, piezoelectric, or capacitive sensing. The Piezoresistive accelerometers works on the principle of change in resistance due to pressure applied. The drawback of this type of sensing is bounded range of working and high reactions to changing temperature. The piezoelectric accelerometer sensors have better displacement but the working changes as surrounding temperature is changed. The capacitive accelerometer sensors have better chances with good sensitivity and can be applied to a wide range of sensors for detecting change of acceleration, pressure and displacement. The present invention disclosed herein is Three Axis Micro Electro Mechanical Systems with H and T Shaped Capacitive Comb Accelerometer comprising of: H-Shaped Capacitive Comb Accelerometer; T-Shaped Capacitive Comb Accelerometer; Proof Mass (501) (601); Springs (502) (602); and Anchors (503) (603). The present invention disclosed herein improves the sensitivity by changing the diaphragm dimensions with applied input acceleration values from 1g to 10g, the displacement and sensitivity can be measured in three directions. The force applied on the Proof Mass (501) of H and T shaped Capacitive Comb Accelerometer, displacement will change and is realized as movement of the Proof Mass (501). The change in displacement in turn changes the sensitivity and the decreasing of the dimensions of the differential capacitive accelerometer such as length, width and thickness of the Proof Mass (501) (601) increases the sensitivity.

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : A METHOD OF CHARACTERIZING THE FLOW FIELD OF FRACTAL GRIDS IN JET TURBULENCE

<p>(51) International classification :F28F0013120000, G01P0005260000, G06F0030200000, G01P0005000000, G02B0006124000</p> <p>(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</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. GANGAVATHI P Address of Applicant :W/o. YOGESHWAR REDDY P, SRI SAIRAM COLLEGE OF ENGINEERING, SAILEO NAGAR, GUDDANAHALLI POST, ANEKAL, BENGALURU 562106, KARNATAKA, INDIA. Karnataka India</p> <p>2)Dr. B. SHADAKSHARAPPA 3)Dr. HARIKRISHNA S 4)Dr. SHAILASHREE S 5)VENKATESHA P 6)A JYOTHI SIREESHA 7)JYOTHI B 8)BHEEMESHWARA REDDY V 9)MANJUNATHA K N</p> <p>(72)Name of Inventor :</p> <p>1)Dr. GANGAVATHI P 2)Dr. B. SHADAKSHARAPPA 3)Dr. HARIKRISHNA S 4)Dr. SHAILASHREE S 5)VENKATESHA P 6)A JYOTHI SIREESHA 7)JYOTHI B 8)BHEEMESHWARA REDDY V 9)MANJUNATHA K N</p>
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(57) Abstract :

Different from the case of decaying grid turbulence, a correction must be accounted for to properly scale the turbulence intensity profiles with a length scale based on grid parameters. This method involves a low-order reconstruction of the velocity field based on the most energetic proper orthogonal decomposition mode and the flow-field structure produced in the lee of fractal grids is studied with a single square object and the jet without turbulator. The typical turbulence intensity profile for jets with fractal grids is produced by the interaction of small eddies shed by the central grid item. In the single square grid case, the turbulence is built upon the interaction between larger structures. Conversely, the interaction of the outward spreading wake with the external shear layer produces pairs of vortical structures, which is related to the higher entrainment rate featured by jets with fractal turbulators. The secondary grid iterations have a disruptive effect on the turbulence transport, with a corresponding large correlation between the velocity fluctuations at the jet core with those at the jet shear layer.

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

(54) Title of the invention : DEVELOPMENT OF IOT BASED HOUSEHOLD HEALTH SAFETY SYSTEM

<p>(51) International classification :A61B0005000000, G08B0021040000, G08B0025010000, A61B0005024500, G08B0021020000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)Dr. R. Kumaravelan Address of Applicant :Professor & Head, Department of Mechanical Engineering, Velalar College of Engineering and Technology, Thindal, Erode -638 052 Tamil Nadu India 2)Dr.S.Balakumar 3)P.Saravanakumar 4)Dr. K. Nirmala Devi 5)R.Karthikeyan 6)Dr.R.Juliana 7)Dr.P.Poongodi 8)Dr.R.Athilingam 9)Dr Chabi Gupta 10)S.Sivananthan 11)Dr.S. Joseph Jawhar 12)Dr. T. Guhan 13)Dr.V.Kavitha 14)Dr.S.Gnanasekaran 15)Dr. N. Revathy</p> <p>(72)Name of Inventor : 1)Dr. R. Kumaravelan 2)Dr.S.Balakumar 3)P.Saravanakumar 4)Dr. K. Nirmala Devi 5)R.Karthikeyan 6)Dr.R.Juliana 7)Dr.P.Poongodi 8)Dr.R.Athilingam 9)Dr Chabi Gupta 10)S.Sivananthan 11)Dr.S. Joseph Jawhar 12)Dr. T. Guhan 13)Dr.V.Kavitha 14)Dr.S.Gnanasekaran 15)Dr. N. Revathy</p>
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(57) Abstract :

IoT opens the pathway of modernized health care and safety systems to monitor the physical parameters of the persons. But the emerging count of accidents and deaths occur inside the houses are created the necessity of making real-time monitoring and identification systems to rescue the affected person whoever got injured inside the house. Thus to provide this systematic approach the combination of sensors and the micro-controller unit with IoT will help to provide the accurate and optimistic response for the recovery of the persons injured. The Arduino Mega controller used in this system will get the foot vibrations and accidental vibrations using the piezo electric sensors or rubberized micro switches. These vibration values will be converted into electrical signals in the sensor itself and given to Arduino Mega controller for the processing. It will compare these signals with pre-programmed values and produce the rescue signal and is fed to the bluetooth module. The mobile application which is installed in the rescuer mobile will get the signal and the person who got injured can be rescued immediately by actuating the solenoid lock module with mobile application command. Thus using this method many lives can be saved from endangered situation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012687 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NON-INVASIVE GLUCOSE LEVEL MONITORING DEVICE USING ABSORPTION SPECTROSCOPY WITH AFFORDABILITY

(51) International classification	:A61B0005145000, A61B0005145500, A61B0005000000, G01N0021359000, G01N0021350400	(71) Name of Applicant : 1)Ms. DUVVURU VARSHITHA Address of Applicant :ROOM NO-3, TIDE - UOH, SCIENCE COMPLEX, UNIVERSITY OF HYDERABAD, GACHIBOWLI, HYDERABAD, ANDHRA PRASAD, INDIA, 500046. Andhra Pradesh India
(31) Priority Document No	:NA	2)Mr. VIMAL KUMAR RN
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1) Ms. DUVVURU VARSHITHA
(86) International Application No	:NA	2)Mr. VIMAL KUMAR RN
Filing 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 non-invasive glucose level monitoring device using absorption spectroscopy with affordability is connected through the USB port of a smartphone, introducing a concept of the both smartphone and device performing master and slave roles. The device operates on drawing power from the smartphone and uses the latter's display as the output screen through its dedicated application. In the present intervention, the radiation of wavelength between 940 -1100nm of Near InfraRed is incident to the pollex (thumb) finger bed region, since the thumb finger bed region consists of a large amount of blood capillaries. As the glucose molecule is optically active, thereby interaction between the Near InfraRed radiation and the glucose molecule is recorded as the absorption spectrum by the spectrometric sensor in the device. The spectrometric sensor consists of 6- Near InfraRed channels which is realized by gaussian filters via nano optic deposited interference filter technology.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012715 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DEGRADATION OF BATTERIES IN THE INTEGRATED PHOTOVOLTAIC SOLAR ENERGY STORAGE SYSTEM

(51) International classification	:G06Q0050060000, H02J0003320000, G06Q0010040000, H02J0003280000, B60R0016030000	(71) Name of Applicant : 1)Francis Xavier Engineering College Address of Applicant :103/G2, By pass Road, Vannarpet, Tirunelveli, Tamil Nadu -627003 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr A Ravi
(33) Name of priority country	:NA	2)Dr.J.Jasper Gnana Chandran
(86) International Application No	:NA	3)Dr.P.Annapandi
Filing Date	:NA	4)Dr A Gnana Saravanan
(87) International Publication No	: NA	5)Mrs A Amala Manuela
(61) Patent of Addition to Application Number	:NA	6)Mrs N.S.Pratheeba Assistant
Filing Date	:NA	7)Mrs Anto Nesa Priya
(62) Divisional to Application Number	:NA	8)Mr J.Daniel Sathyaraj
Filing Date	:NA	

(57) Abstract :

ENERGY STORAGE SYSTEM Core solutions for lowering greenhouse gas emissions are called clean energy production and storage systems. Planning and running the power grid requires more precise forecasting of volatile renewable energy supplies that recognize the consequences on the system of accumulation of charging and discharging cycles caused by battery depletion. A mathematical model for a day-ahead photovoltaic (PV) generation based on solar radiation and weather parameters is provided in this invention Furthermore, it is important to measure the technological reliability of energy storage systems (ESS) by considering the battery depletion during the battery charge and battery download periods. A battery depletion model is used in this analysis based on the data-driven approach. Based on the required prevision, ESS scheduling is carried out to bill for the auto consumption of the customer load the full amount for PV generation and discharge at the end of the output of PV. Since the battery relies heavily on operational conditions, such as load depth, load and temperature, two distinct ESS loading and loading modes are suggested.

No. of Pages : 15 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012725 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NON-PULP COMPLETELY BIODEGRADABLE PACKAGING MATERIALS FROM AGRICULTURAL RESIDUES AND PROTEINS

(51) International classification	:B65D0065460000, C08L0067040000, C08L0099000000, B32B0027300000, C08L0003020000	(71) Name of Applicant : 1)Agringenium Innovations Private Address of Applicant :Jyothy Institute of Technology Campus Thataguni, Off Kanakapura Road Bengaluru-560 082 Karnataka Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Narendra Reddy
(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 :

NON-PULP COMPLETELY BIODEGRADABLE PACKAGING MATERIALS FROM AGRICULTURAL RESIDUES AND PROTEINS The present invention discloses a biodegradable packaging material comprising biocomposite derived from agricultural residues and natural binders that can substitute the plastic packaging in current use. The packaging material is in different sizes and shapes and intended for packaging, storage and/or transportation of both food and non-food items. After use, the packaging material can be disposed as fertilizer, animal feed or can be composted without causing any harm to the environment. The method of production of the biodegradable packaging material is also disclosed in the present invention.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012728 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : IOT-ENABLED SMART METER MONITORING FOR SMART GRIDS

(51) International classification	:G06Q0050060000, H02J0003140000, H02J0013000000, H04L0029080000, G08B0021180000	(71) Name of Applicant : 1)Francis Xavier Engineering College Address of Applicant :Francis Xavier Engineering College, 103/G2, By pass Road, Vannarpet, Tirunelveli, Tamil Nadu - 627003 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr.J.Jasper Gnana Chandran
(33) Name of priority country	:NA	2)Dr.P.Annapandi
(86) International Application No	:NA	3)Dr A.Ravi
Filing Date	:NA	4)Dr A Gnana Saravanan
(87) International Publication No	: NA	5)Dr.U.Muthuraman
(61) Patent of Addition to Application Number	:NA	6)Mr N.B Rajesh
Filing Date	:NA	7)Mr N.V.Selvam
(62) Divisional to Application Number	:NA	8)Mr.S.Selvakumar
Filing Date	:NA	

(57) Abstract :

The energy protection and climate are threatened by the substantial rise in energy demand by the increasing population or the use of modern appliances. Consumers must track their routine usage and help coordinate themselves and achieve financial and energizing efficiencies and appreciate use requirements. The smart measurement meter is no longer a measurement gadget with the improvement of smart network technologies for improved energy supply, but it also has other features, including intelligent equipment management, two-way communication that makes it easier to integrate users and networks and other functions. The most critical elements of intelligent power grids are smart meters. Also, the meters used in a management system can be used in conjunction with the needs of consumers to track and operate home appliances and other gadgets. An optimized device solution can be more efficient and cost-effective. Smart metering systems offer valuable information on energy usage and allow the energy usage of final consumers to be tracked. The operators use the information provided by these devices to optimize the supply of energy and various strategies, such as charge scheduling, demand-side control and non-intrusive load surveillance can also be applied for this reason. The Internet of Things (IoT) is growing into a major ally in smart grid scenarios concerning smart delivery and energy use. This idea introduces and presents a new intelligent energy calculation following an IoT process and its costs and advantages correlated with this approach. The device is designed with different interfaces for communication. The meter has a multi-protocol link for quickly incorporation into any tracking device solution.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012737 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AGRICULTURE MOTOR PUMP AUTOMATION AND MONITORING USING IOT

(51) International classification	:H04L0029080000, G05B0023020000, G06Q0010080000, G06Q0050100000, G06Q0010060000	(71) Name of Applicant : 1)Francis Xavier Engineering College Address of Applicant :Francis Xavier Engineering College, address: 103/G2, By pass Road, Vannarpet, Tirunelveli, Tamil Nadu -627003 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr.P.Annapandi
(33) Name of priority country	:NA	2)Dr A Ravi
(86) International Application No	:NA	3)Dr.J.Jasper Gnana Chandran
Filing Date	:NA	4)Dr A Gnana Saravanan
(87) International Publication No	: NA	5)Mr J Antony Robinson
(61) Patent of Addition to Application	:NA	6)Mrs R.Aandal
Number	:NA	7)Mr.N.Subramanian
Filing Date	:NA	8)Mr V Vignesh Arumugam
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This proposed invention includes IOT (Internet Of Things) deployment for tracking and managing the induction motor for agricultural applications. IoT equipment for tracking, monitoring and diagnosing the state of induction motors is designed and applied through the identification of major operating indicators. The proposed approach involves an IoT-based platform for collecting and processing inductive motor parameters, such as temperature, speed, current, voltage, and soil moisture, humidity, temperature parameters etc. The collected data can be saved in the cloud and viewed via the web page. Besides, timely warnings are received to prevent an unnecessary machine downtime that saves time and resources for any infringement of necessary parameter limits under control. The benefits of this approach include continuous equipment tracking, reception of warnings and predictive maintenance data availability.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012765 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : HIGH TEMPERATURE NANO TITANIUMDIOXIDE SYNTHESIS

(51) International classification	:C01G0023070000, C01B0007040000, C08K0003220000, C01B0013280000, C01B0013220000	(71) Name of Applicant : 1)The Kerala Minerals and Metals Ltd. Address of Applicant :Sankaramangalam, Chavara Kollam. Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Jabeera B
(33) Name of priority country	:NA	2)Shaju I.K
(86) International Application No	:NA	3)Manikuttan P. K
Filing Date	:NA	4)Chandrabose. J
(87) 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: HIGH TEMPERATURE NANO TITANIUMDIOXIDE SYNTHESIS An industrially scalable process for synthesizing nano-titanium dioxide by vapor phase oxidation of titanium tetra chloride and oxygen in presence of liquefied petroleum gas is disclosed. Said process is characterized by the feeding of silica sand mixture seeded with 3-5% by weight of nano-rutile titanium dioxide into an oxidizer followed by simultaneous introduction of pre-heated titanium tetra chloride vapour, pre-heated oxygen and liquefied petroleum gas into said oxidizer. The seed acts as nuclei, wherein the nano-rutile titanium dioxide particles subsequently formed as a result of the chemical reaction will have a particle size same as that of the seed. FIG.1

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

(54) Title of the invention : GENERATING ROTATIONAL ENERGY BY HYDRAULIC ENGINE BASED ON THE PRINCIPLES OF HYDRAULICS AND MECHANICAL TRANSFORMATION OF HYDRAULIC LINEAR MOTION INTO ROTATIONAL MOTION.

(51) International classification	:F03D0009250000, H02J0007350000, F03D0009000000, H02J0003380000, H02K0053000000	(71) Name of Applicant : 1)Kalaimani M Address of Applicant :27/3, SPIC Nagar, Velachery, Chennai - 600042 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Kalaimani M
(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 field of invention is to produce rotational energy. The rotational energy is generated by the method of transforming hydraulic linear motion into rotational motion mechanically by the Hydraulic Engine. The rotational energy is increased by geartrain and converted to electric energy by the generator. The current energy sources to power automobiles, industries, and domestic electricity needs are primarily contributed by renewable and non-renewable energies. Non-renewable energy sources such as fossil fuels leave a huge CO₂ emission, other hazardous gases, and limited. Renewable energy sources such as hydro, solar, and wind energy sources are seasonal and itTMs not easily portable. The electric energy produced from hydraulic energy does not involve any combustion of fossil fuel, hence it leaves zero-emission of CO₂ and other hazardous gases. Hydraulic energy eliminates all the challenges caused by non-renewable energy sources and addresses the open challenges in renewable energy sources. Portable versions of Hydraulic Engines can power automobiles. Small-scale Hydraulic Engines can power the current and future needs of domestic energy. Large-scale Hydraulic Engines can power the current and future needs of industrial energy. The applications that require variable speed can convert hydraulic energy into electric energy. The applications that require static speed can directly use the hydraulic energy with gears. The electric energy produced by using Hydraulic Engine can power automobiles and domestic and industrial electrical needs. Hydraulic energy is not seasonal. This is not limited. It uses zero percent of oxygen. It emits zero percent CO₂ and other hazardous gases. It is truly considered as green energy and sustainable and free energy produced by the principles of hydraulics.

No. of Pages : 34 No. of Claims : 17

(54) Title of the invention : SYSTEM AND METHOD FOR IMPLEMENTING SECURE IDENTITY AND TRANSACTION NETWORK

(51) International classification	:G06Q0020320000, G06Q0020400000, G06Q0020100000, G06Q0020380000, G06Q0020340000	(71) Name of Applicant : 1)Dr. Shreekanth Mooroor Prabhu Address of Applicant :Dr. Shreekanth M Prabhu Professor and Head of the Department, Department of Information Science and Engineering, CMR Institute of Technology, Bengaluru 132 AECS Layout ITPL Main Road, Kundalahalli Bengaluru- 560037, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Dr. Shreekanth Mooroor Prabhu
(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 :

Access to mobile devices and digital payment platforms to wide section of population has made digital transactions highly popular and pervasive. At the same time there are continuing cases of online frauds where gullible get easily cheated. The steps taken to secure transactions from frauds have had only limited impact. In this invention we disclose an approach to ensure that identities and transactions of participating individuals and institutions are duly secured and participants are protected from financial losses to a greater extent than in currently prevailing systems. The invention is anchored at network/ecosystem level where it provides for an inner ring where only authenticated devices, persons and institutions participate and engage in secure transactions by making use of transaction markers to identify persons, device, network membership/access, account access and usage as well as physical proximity relative to counter-party or device and/or network. The invention makes provision for concurrent and continuous tracking of the mode and extent of participation of devices, persons and institutions at individual and network/ecosystem level. To provide protection to the participants from any illegitimate use of their funds/accounts, a revalidation phase is envisaged during which transactions could get reversed and costs defrayed as per pre-determined rules/regulations. Further the invention enables institutions and persons to constrain the follow-on transactions that make use of their funds for designated purposes, categories, peoples, geographies, jurisdictions and patterns of utilization and exclude their use in non-intended purposes, categories, people, geographies, jurisdictions and patterns/pace of utilization, subject to applicable laws

No. of Pages : 48 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012943 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : GRAPHITIC CARBON DERIVED FROM WASTE TISSUE PAPERS FOR SODIUM-ION CAPACITORS AND THEIR PREPARATION METHOD THEREOF

(51) International classification	:H01M0010054000, H01M0004587000, H01M0004580000, H01M0004136000, H01M0004020000	(71) Name of Applicant : 1)Institute of Aeronautical Engineering Address of Applicant :Department of Physics, Institute of Aeronautical Engineering, Dundigal Road, Hyderabad-500043, Telangana, India. Telangana India
(31) Priority Document No	:NA	2)Dr.Kamatam Hari Prasad
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Dr.Kamatam Hari Prasad
(86) International Application No	:NA	2)Dr.Himadri Tanaya Das
Filing 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: Title: Graphitic Carbon Derived from Waste Tissue Papers for Sodium-Ion Capacitors and Their Preparation Method Thereof The present disclosure proposes recycle paper based sustainable graphitic carbon nanosheets as competent anode material that enhances conductivity and energy storage capacity of sodium-ion capacitors. The graphitic carbon electrode used in hybrid sodium-ion capacitors is cost-effective and provides high power density. The proposed sustainable method reduces tissue paper waste and recycles it to make battery-type and capacitive-type electrode materials for the overall enhancement of electrochemical energy storage. The electrode made of sodium reduces the overall cost of the hybrid sodium-ion capacitor. The sodium-ion rich electrolyte helps in ion conductivity, prevents capacity fading, and results in a longer cycle-life. The proposed eco-friendly method is less hazardous and time-saving.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012944 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ELECTROSPUN NANOCOMPOSITE QUASI-SOLID ELECTROLYTES FOR DYE-SENSITIZED SOLAR CELLS AND THEIR PREPARATION METHOD THEREOF

(51) International classification	:H01G0009200000, D01D0005000000, B01D0069140000, C25D0005000000, C08K0007240000	(71) Name of Applicant : 1)Institute of Aeronautical Engineering Address of Applicant :Department of Physics, Institute of Aeronautical Engineering, Dundigal Road, Hyderabad, Telangana, India- 500043. Telangana India
(31) Priority Document No	:NA	2)Dr.Kamatam Hari Prasad
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Dr.Kamatam Hari Prasad
(86) International Application No	:NA	2)Dr.S.Vinoth
Filing Date	:NA	3)Dr.N.Satyanarayana
(87) 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 Title: Electrospun Nanocomposite Quasi-Solid Electrolytes for Dye-Sensitized Solar Cells and their Preparation Method Thereof The present disclosure proposes electrospun nanocomposite quasi-solid electrolytes that exhibit high conductivity and high PCE for dye-sensitized solar cells. The TiO₂ nanofibrous that is used as fillers exhibit high aspect ratio and a high dielectric constant that facilitates better dissociation with polymer and hinders agglomeration in the polymer matrix. The ion-conducting behaviour, relaxation dynamics and the photovoltaic performance of the nanocomposite electrospun PVDF-HFP/ x wt% of nanofibrous TiO₂ (x = 2, 4, 6, 8 wt%) electrolyte membranes are studied. Photovoltaic parameters of the fabricated DSSCs are extracted using an equivalent circuit of single diode model of generalized solar cells to interpret, the parameters influence in the photovoltaic performance.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : A SEMI-AUTOMATED MECHANICALLY OPERATED URINAL FLUSHING SYSTEM

(51) International classification	:E03D0005100000, F16K0031385000, E03D0001340000, E03D0003040000, E03D0013000000	(71) Name of Applicant : 1) JACKSON IRUDHAYAM S Address of Applicant : 3-1/3-3, T.V.K. NAGAR, CHINNALAPATTI, DINDUGAL, TAMIL NADU, INDIA, 624 301 Tamil Nadu India
(31) Priority Document No	:NA	2)DHARRSON D
(32) Priority Date	:NA	3)INFANTO SOLOMON F
(33) Name of priority country	:NA	4)JOSEPH. D
(86) International Application No	:NA	5)JOY ABISHAKE S
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1) JACKSON IRUDHAYAM S
(61) Patent of Addition to Application	:NA	2)DHARRSON D
Number	:NA	3)INFANTO SOLOMON F
Filing Date	:NA	4)JOSEPH. D
(62) Divisional to Application Number	:NA	5)JOY ABISHAKE S
Filing Date	:NA	

(57) Abstract :

A mechanically operated urinal flushing system (100) is disclosed. The system (100) comprising of: a cistern (1) which comprises of an inlet valve (13) which is connected to the overhead tank for storage of water, and a flush valve (8) for flushing of urinals. A floating platform (4) is connected to the cistern (1) by means of a connecting rod (2) having a protrusion (3) thereon. A protrusion (3) of said connecting rod (2) is protruded through a slot (9) of said flush valve (8) for controlling the operation of flush valve (8), wherein said opening and closing of flush valve (8) is controlled by means of said vertical movement of floating platform (4). The inlet valve (13) operation is controlled by a protrusion (10) on the flush valve (8), when said floating platform (4) is floated by means of said coil springs (7) inside the cylindrical shaped holding means (6).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012999 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FORMULATION OF HERBAL TEA BAG DIPS FOR THERAPEUTIC USES USING SUPER HERBS

(51) International classification	:A61K0036000000, A61K0036800000, A61K0036670000, A61K0036070000, A61K0036280000	(71) Name of Applicant : 1) R. SWARNALAKSHMI Address of Applicant : A-31, 15TH STREET, RAHMATHNAGAR, TIRUNELVELI, TAMILNADU, INDIA, 627011 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1) R. SWARNALAKSHMI
(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 :

Common cold is an infectious disease of the upper respiratory tract that primarily affect the nose. It caused by more than 200 different types of viruses. Ayurveda is the holistic system of medicine and widely practiced in India. Ayurveda medicines are mostly formulated using a mix of herbs and other plants including oils and common spices. Ayurvedic herbs are also known to provide permanent relief from a disease by removing the metabolic toxins from the body. Extract bag is a small, porous, sealed bag containing an herbal material. In this project, we take a twelve herbal materials to make in a powdered form by packed in an extraction bags. This herbal powdered extract bags to make a relieve from cold within three days. Nowadays, this extraction bag method is useful for those who are affected by cold because now no one is ready to prepare this product and our extract bag is prepared on the basis of ready to drink mix.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013008 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ROBOTIC TREE CLIMBER

(51) International classification	:B25J0009100000, F15B0015100000, B25J0009140000, A61F0002740000, F16F0009020000	(71) Name of Applicant : 1)NATIONAL INSTITUTE OF TECHNOLOGY CALICUT Address of Applicant :An Indian Institute of NIT CAMPUS, P.O. CALICUT, KOZHIKODE KERALA 673601, INDIA Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SUDHEER, ATTADAPPA PUTHANVEETIL
(33) Name of priority country	:NA	2)PRASANTH, HARI
(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 :

ROBOTIC TREE CLIMBER A robotic tree climber (I) for climbing single stem unbranched trees comprises at least a top radially contracting toroidal pneumatic artificial muscle (1) and a bottom radially contracting toroidal pneumatic artificial muscle (2) interconnected by at least two-cylinder piston rod arrangements (4, 5) one each on either side of the radially contracting toroidal pneumatic artificial muscles (1, 2). The muscles (1, 2) are connected at either side with cylinder end and with piston rod end, each of said muscles (1, 2) being provided with at least one openable muscle coupling and one closed muscle coupling, whereby the muscles (1, 2) circumvent the tree trunk. The muscles can be inflated and deflated for holding/gripping the tree trunk and releasing grip respectively. The cylinder piston rod (4, 5) arrangement can retract and expand for movement of the robotic climber along the tree trunk in upward or downward direction when operated together with the radially contracting toroidal pneumatic artificial muscles. A method applying the robotic tree climber is also disclosed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013009 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR DATA CATALOGUING INTEGRATED WITH ARTIFICIAL INTELLIGENCE.

(51) International classification	:H04L0012180000, G16B0030000000, G06T0011200000, G06N0003040000, H04W0012000000	(71) Name of Applicant : 1)M/s. S&V Software Services LLP Address of Applicant :#82, ST Bed, Koramangala 4th Block, Bangalore 560034, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Prashanth Prahalad
(33) Name of priority country	:NA	2)Srihari Prahalad
(86) International Application No	:NA	3)Syed Zafer Ali
Filing 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 The present invention is related to a user and cataloguer integrated data cataloguing system where a cataloguer can customise the master data according to user requirements enabling the user and the cataloguer to complete the transaction on the system itself ensuring data securities. The data cataloguing system of the present invention is unique since it does auto cataloguing of the data with deep learning computational methods not only for new but existing data sets, and facilitate cleansing data at any stage of the project.

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

(54) Title of the invention : CLOUD BASED ONLINE CRIME REPORTING SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04L0029080000, G06Q0050260000, H04L0012240000, H04L0029060000, G06F0009500000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1) Dr. V. PARIMALA Address of Applicant :ASSISTANT PROFESSOR IN MATHEMATICS DEPARTMENT OF SCIENCE & HUMANITIES, SRI KRISHNA COLLEGE OF TECHNOLOGY, ARIVOLI NAGAR, KOVAIPUDUR, COIMBATORE-641042 TAMIL NADU Tamil Nadu India</p> <p>2)Dr. V. NIRMALA</p> <p>3)Dr. P. SANJU</p> <p>4)Mr. PANKAJ MUDHOLKAR</p> <p>5)Mrs. MEGHA MUDHOLKAR</p> <p>6)Dr. MANOJ LIMCHAND BANGARE</p> <p>7)Dr. PUSHPA MANOJ BANGARE</p> <p>8)Ms. JYOTI LIMCHAND BANGARE</p> <p>9)Ms. BHAWANA SAINI</p> <p>10)Ms. VAISHALI MADAAN</p> <p>(72)Name of Inventor :</p> <p>1) Dr. V. PARIMALA</p> <p>2)Dr. V. NIRMALA</p> <p>3)Dr. P. SANJU</p> <p>4)Mr. PANKAJ MUDHOLKAR</p> <p>5)Mrs. MEGHA MUDHOLKAR</p> <p>6)Dr. MANOJ LIMCHAND BANGARE</p> <p>7)Dr. PUSHPA MANOJ BANGARE</p> <p>8)Ms. JYOTI LIMCHAND BANGARE</p> <p>9)Ms. BHAWANA SAINI</p> <p>10)Ms. VAISHALI MADAAN</p>
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(57) Abstract :

The possibility of this invention is to analyze the site named Cop On Cloud, a site created utilizing AWS cloud administrations. The current framework in police headquarters of our nation is obsolete. There is a ton of desk work and furthermore a great deal of time is squandered in keeping up old records. This is a cutting-edge time and more PC innovations should be utilized in police headquarters to lessen paper work and at last save the time which is spent in keeping up old records and subtleties. Distributed computing has arisen as the new registering stage Cloud workers offer us blasting quick speeds. This site encourages general society to report about the wrongdoings to the police with no dread in right time. By this site public can likewise report for missing things and can advise police if have data identified with needed individual and a lot more highlights. An online wrongdoing detailing framework is extremely helpful as the arrangement is naturally distributive.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013098 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM FOR FREELANCING PROJECTS MANAGEMENT USING BLOCKCHAIN INTERFACES AND INFRASTRUCTURE

(51) International classification	:H04L0009320000, G06Q0040020000, G06Q0040000000, G06F0021640000, G06F0007580000	(71) Name of Applicant : 1)Mahadev Vasireddy Address of Applicant :Vasireddy Venkatadri Institute of Technology (VVIT), Nambur (Village), Peda Kakani (Mandal), Guntur (District), Andhra Pradesh, India. Pin Code:522508 Andhra Pradesh India
(31) Priority Document No	:NA	2)Mahaveer Vasireddy
(32) Priority Date	:NA	3)Aruna Priya Vasireddy
(33) Name of priority country	:NA	4)Vidyasagar Vasireddy
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Mahadev Vasireddy
(87) International Publication No	: NA	2)Mahaveer Vasireddy
(61) Patent of Addition to Application	:NA	3)Aruna Priya Vasireddy
Number	:NA	4)Vidyasagar Vasireddy
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system for freelancing projects management using blockchain interfaces and infrastructure. The system includes, but not limited to, a processing system in a computer network that includes at least one hardware processor with a layered structures, online decentralized ledger database segments based on digital cryptographic data structures and decentralized finance system, the processing system configured to: a first layer provided for administering digital identifies, digital signatures, electronics contracts, and payments; a second layer provided for administering decentralized financial transaction by creating a liquidity pool unit and a staking pool unit; a third layer adapted to govern and make whole system decentralized autonomous organization (DAO). Further, the processing system is configured to identify stakeholders, which is an employer, an employee, and an arbitrator in a transaction processing environment. The processing system is further configured to provide tokens in a metrics, which is wealth of the system. Accompanied Drawing [FIGS. 1]

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013173 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LINEAR DATA TRANSFER ARCHITECTURE OF INTEGRATED SYSTEMS IN MIDDLEWARE TECHNOLOGY

(51) International classification	:G06F0016250000, H04L0029080000, G06F0016270000, G06Q0010060000, G06F0009540000	(71) Name of Applicant : 1)S.RAVISANKAR Address of Applicant :294, FOURTH CROSS STREET, PALANI ANDAVAR NAGAR, PALANI, DINDIGUL DISTRICT, TAMILNADU STATE. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)S.RAVISANKAR
(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 Linear data transfer architecture for integration of systems in middleware technology, is the title of the invention, is specified based on system client number specification. The invention belongs to the technical fields of computer science, distributed computing, and communication under science and technology. The invention relates to the technical problem of the data transfer for integration of systems in middleware technology. The solution to the technical problem through the invention is explained in the detailed description and illustrated with the accompanying drawings. Summary or feature of the invention This architecture is a conceptual model that defines the structure, behavior and functionality of linear data transfer for integration of system(s) in middleware technology. The principal use(s) of this invention are, 1. Science and Technology. 2. Distributed computing and Space research solutions. 3. Various Industry sectors. 4. Communication, Transfer, integration, interface and exchange processes. 5. Environmental solution. 6. Digital electronics and Digital business systems. 7. Implementation using the hardware, software and middleware. 8. Suitable for multiple systems environment. 9. Use in large and bulk data 10. Integration or interface or transfer or communication The reference numerals of drawings are 101, 102, 103, 201, 202, 203, 204, 205, 206, 207, 301, 302, 303 and 401, where source system(s) (101), internal source system(s) (102), external source system(s) (103), middleware system(s) (201), internal middleware system(s) (202), internal middleware systemTMs source client number (203), internal middleware systemTMs target client number (204), external middleware system(s) (205), external middleware systemTMs source client number (206), external middleware systemTMs target client number (207), and target system(s) (301), internal target system(s) (302), external target system(s) (303), data transfer (401).

No. of Pages : 26 No. of Claims : 7

(54) Title of the invention : A SYSTEM FOR PREPARING OPTIMUM DIESEL BLENDS USING WASTE PLASTIC OIL. •

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number: Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:F02D0035020000, C10G0001100000, C10B0053070000, F02B0003060000, C10G0001000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. K.Sunil Ratna Kumar Address of Applicant :Associate professor, Sir C R R college of engineering , Department of Mechanical engineering vatluru ,Eluru- 534007,Andrapradesh , INDIA Andhra Pradesh India</p> <p>2)Radha Krishna Gopidesi</p> <p>3)V.Naveen kumar</p> <p>4)Dr. Abhishek Dasore,</p> <p>5)Dr. G. Charan Kumar</p> <p>6)Dr. Upendra Rajak</p> <p>7)Dr. Abhishek Sharma</p> <p>8)Dr. Y. Siva Kumar Reddy</p> <p>9)Tangellamudi Venkata Srinivasa Rao</p> <p>10)Tulala Rajasanthosh Kumar</p> <p>(72)Name of Inventor :</p> <p>1)Dr. K.Sunil Ratna Kumar</p> <p>2)Radha Krishna Gopidesi</p> <p>3)V.Naveen kumar</p> <p>4)Dr. Abhishek Dasore,</p> <p>5)Dr. G. Charan Kumar</p> <p>6)Dr. Upendra Rajak</p> <p>7)Dr. Abhishek Sharma</p> <p>8)Dr. Y. Siva Kumar Reddy</p> <p>9)Tangellamudi Venkata Srinivasa Rao</p> <p>10)Tulala Rajasanthosh Kumar</p>
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(57) Abstract :

The system for preparing optimum diesel blends using waste plastic oil comprising system of waste plastic oil for diesel blends. More particularly present invention related to better system and improve the waste plastic oil for any applications. The present invention relates to diesel blends waste plastic oil and improve the efficiency for same process. Wherein mixing a solid plastic waste with a metal hydride and a supported metal catalyst; gasifying the mixture; and producing and the high quality liquid fuels; Ox emission for WPO25 is more than Diesel. Higher amount of oxygen in WPO, improves the chemical NOx reactions and higher EGT also increase the prompt NOx reaction. However, by implementing any NOx reduction technique it may be reduced; the peak in-cylinder pressure and maximum heat release rate for WPO100 is higher than other blends of WPO. Also blends the optimum level of the diesel level of application to be used.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013205 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : Automatic Smart Continuous Glucose Monitoring System Chip Pasting on Human body

(51) International classification	:A61B0005145000, A61B0005000000, A61B0005145500, A61B0005148600, A61B0005010000	(71) Name of Applicant : 1)Bharath Institute of Higher Education and Research Address of Applicant :No.173, Agharam road, Selaiyur, Chennai - 600073. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Venkataramanan
(33) Name of priority country	:NA	
(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 Automatic Smart Continuous Glucose Monitoring System Chip Pasting on Human body A continuous glucose monitoring system, or CGM, is a compact medical system that continuously monitors blood sugar levels in more or less real time (thereTMs normally a five-minute interval between readings). These systems have been designed to monitor glucose by using a tiny sensor thatTMs inserted in any part of the body and is attached to a monitor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013239 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PPAR γ AGONIST FOR THE TREATMENT OF INSULIN RESISTANC ASSOCIATED WITH TYPE 2 DIABETES

(51) International classification	:A61K0031728000, A61K0038170000, A61K0049000000, C12M0001340000, A61K0031519000	(71) Name of Applicant : 1)Mr. BHAVIMANI GURU Address of Applicant :#2/43, Rudrawadi, Aland Taluk, Kalaburagi District, Karnataka- Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. BHAVIMANI GURU
(33) Name of priority country	:NA	2)Dr. SANTHEPETE NANJUNDAIAH MANJULA
(86) International Application No	:NA	3)Dr. AKHILESH KUMAR TAMRAKAR
Filing Date	:NA	4)Dr. BOMMENAHALLY RAVANAPPA PRASHANTHA
(87) International Publication No	: NA	KUMAR
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A PPAR agonist for the treatment of insulin resistance associated with Type 2 diabetes relates to a novel PPAR agonist with improved therapeutic efficacy and minimized adverse effects is designed and synthesized by targeting PPAR and evaluated for its insulin sensitizing effect, hypoglycemic effect and hypolipidemic effect in cell lines and animal model.

No. of Pages : 53 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013274 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PRODUCTION OF SYNTHETIC RUTILE FROM ILMENITE BY ENHANCED REDUCTION PROCESS

(51) International classification	:C22B0034120000, C01G0023047000, B01J0038120000, B23K0035360000, C22B0034100000	(71) Name of Applicant : 1)The Kerala Minerals and Metals Ltd Address of Applicant :Sankaramangalam, Chavara Kollam. Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Jabeera.B
(33) Name of priority country	:NA	2)Shaju I.K
(86) International Application No	:NA	3)Manikuttan P. K
Filing Date	:NA	4)Chandrabose. J
(87) 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: Production of Synthetic Rutile from Ilmenite by Enhanced Reduction Process. An enhanced reduction process for the production of synthetic rutile having 92% -94% TiO₂ content from ilmenite is disclosed. Said process involves reducing ilmenite with petroleum coke and a mixture of borax and ammonium chloride for 3 hours below 1050 degree C in a rotary kiln. The reduced ilmenite is leached using 1% ammonium chloride solution with air purging and continuous stirring for 5 hours, wherein said above-leached ilmenite is further leached with sulphuric acid for 2 hours at below 85 degree C for residual iron removal.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : ARCHITECTURAL CRYPTOGRAPHY WITH HIGH SECURE CORE

(51) International classification	:H04L0009060000, H04L0009080000, H01L0023000000, G06F0021760000, G06F0011070000	(71) Name of Applicant : 1)Dr VIJAYA DURGA RAVVA Address of Applicant :Associate Professor, Geethanjali College of Engineering and Technology (Autonomous), Cheeryal (V), Keesara (M), Medchal Dist, Telangana-501301, India Telangana India
(31) Priority Document No	:NA	2)SEKHAR M
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Dr VIJAYA DURGA RAVVA
(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 continuous increase in demand for security in electronic systems and communication systems which lacks a secure architecture has resulted in the need to provide cryptography architecture with high secure core. The hardware implementation of the cryptography core which incorporates multiple algorithms for security purpose was already developed but if the architecture is capable of switching between the algorithms used for encryption /decryption as controlled by the host computer dynamically, then the security over the data path will be increased by making the attempt for hacking too difficult. The switching between heterogeneous algorithms will also increase the confusion level. This invention has an architecture that implements three symmetric algorithms namely the standard AES, standard DES and proposed modified DES (MDES) algorithms. Representing these algorithms in the functional block level and also using the new concept of common S-Box, results in operations that are common to all the three algorithms, allows us to merge them in a single architecture and thus there is an area reduction of 14.5% in cryptography core with 2 S-Boxes rather than using 11 S-Box. The operation of this cryptography core is controlled by the control signals, selecting which algorithm to work at time, making it difficult to hack the information transferred through the data line. This invention benefits many stakeholders such as users and administrators of information systems, security practitioners, cloud users, cloud service providers and information systems built on cloud platforms besides researchers and academia.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013317 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR HUMAN RESOURCE MANAGEMENT TO IMPROVE SERVICES OF SUPERMARKET USING COMPUTERIZED ONLINE PLATFORM

(51) International classification	:G06Q0010100000, G06Q0010060000, G06F0021310000, G07G0001000000, B25J0011000000	(71)Name of Applicant : 1)Dr. Vidya Bai G Address of Applicant :Associate Professor, Department of Commerce, Manipal Academy of Higher Education, Manipal, Karnataka, India Karnataka India 2)Dr. Nethravathi P. S. 3)Dr. Krishna Prasad K 4)Mr. Daniel Frank 5)Mrs. Sheetal A 6)Mr. Pushparaj Nayak 7)Mr. Nidheesh K
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Vidya Bai G 2)Dr. Nethravathi P. S. 3)Dr. Krishna Prasad K 4)Mr. Daniel Frank 5)Mrs. Sheetal A 6)Mr. Pushparaj Nayak 7)Mr. Nidheesh K
(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 :

The present invention relates to system and method for human resource management to improve services of supermarket using computerized online platform. The objective of the present invention is to solve the problems in the prior art related to technologies of computerized online management of human resource in a workplace.

No. of Pages : 30 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013379 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ACTION AND GESTURE RECOGNITION SYSTEM FOR CHILDREN WITH CEREBRAL PALSY DISEASE

(51) International classification	:G06K0009000000, G09B0021000000, G09B0019000000, A63F0001040000, A41D0027000000	(71)Name of Applicant : 1)P DILEEP Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Malla Reddy college of Engineering and Technology, Dhulapally, Hyderabad-500100 Telangana India 2)M VIJAYAKAMAL 3)MADDURU SAMBASIVUDU 4)Vemula Vasuki Rohinidevi 5)GANESH BEEMANAPALLI 6)Satish Garigipati 7)Madhavapeddy Nirmala 8)ABDUL SALEEM L 9)Dr. K.M. Rayudu 10)Suneetha Vazarla 11)Dr. P H V Sessa Talpa Sai
(31) Priority Document No	:NA	(72)Name of Inventor : 1)P DILEEP 2)M VIJAYAKAMAL 3)MADDURU SAMBASIVUDU 4)Vemula Vasuki Rohinidevi 5)GANESH BEEMANAPALLI 6)Satish Garigipati 7)Madhavapeddy Nirmala 8)ABDUL SALEEM L 9)Dr. K.M. Rayudu 10)Suneetha Vazarla 11)Dr. P H V Sessa Talpa Sai
(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 :

Children with CP face certain challenges such as coordination of mouth and tongue muscles while speaking and people will not be able to listen to them. While listening, children with CP, concentration becomes big challenge. Neurological impairments lead to many other challenges as well. When children with CP want to write, they get fine motor skills problem; while showing or pointing at pictures, they get issues fine motor skills; while making gestures and using sign language also children with CP get challenges such as motor planning and fine motor skills. While performing facial expression and body language, children with CP encounter challenges such as muscle control of face and body. CP cause problem in clearly speaking, impairments in understanding and intellectual disability. The current invention provides a framework to recognise actions and gestures of such children to leverage different possibilities to improve various dimensions of their life. This invention is based on GAN model with enhancements. There is provision for improving training samples from time to time. The framework helps in recognising actions and gestures of children with CP besides preserving privacy of the children. It anonymizes face part of the children while their video is being processed. This invention can fit into different real world applications such as healthcare and gaming to mention few. Different stakeholders who are benefited with the current invention include children with CP and their parents, educational institutions and application developers for children with CP besides healthcare professionals, researchers and academia.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013447 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : REMOTE HEALTH MONITORING SYSTEM WITH WEARABLE SENSORS AND IOT TOWARDS REAL TIME HEALTHCARE SERVICES

<p>(51) International classification :A61B0005000000, H04L0029080000, A61B0005020500, G16H0040670000, G06Q0050220000</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. S. SRINIVASA RAO Address of Applicant :Principal, Malla Reddy College of Engineering and Technology, Hyderabad-500100, Telangana, India Telangana India</p> <p>2)DR.TIPIRNENI VENUGOPAL</p> <p>3)DR. B. JYOTHI</p> <p>4)DR. N. SUBASH</p> <p>5)DR. VM SENTHILKUMAR</p> <p>6)DR SUCHARITHA M</p> <p>7)DR. S. SASIKANTH</p> <p>8)ARUNKUMAR MADUPU</p> <p>9)P. ANITHA</p> <p>10)CHINTHAKINDI KIRAN KUMAR</p> <p>11)MARAM ANANTHA GUPTHA</p> <p>12)SRINIVAS TALASILA</p> <p>(72)Name of Inventor :</p> <p>1)DR. S. SRINIVASA RAO</p> <p>2)DR.TIPIRNENI VENUGOPAL</p> <p>3)DR. B. JYOTHI</p> <p>4)DR. N. SUBASH</p> <p>5)DR. VM SENTHILKUMAR</p> <p>6)DR SUCHARITHA M</p> <p>7)DR. S. SASIKANTH</p> <p>8)ARUNKUMAR MADUPU</p> <p>9)P. ANITHA</p> <p>10)CHINTHAKINDI KIRAN KUMAR</p> <p>11)MARAM ANANTHA GUPTHA</p> <p>12)SRINIVAS TALASILA</p>
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(57) Abstract :

There have been plenty of instances where people died due to lack of healthcare services nearby or there was time delay between the severe health condition occurrence and reaching healthcare unit. The conventional healthcare services are fine with normal cases. However, there are certain cases, where continuous health monitoring is required. In such cases, it is essential to monitor patients from a remote place to serve them in near real time. Technological innovations such as wearable devices, sensors, actuators, RFID, fog computing, cloud computing and big data analytics paved way for IoT which is used to realize different kinds of use cases such as smart home, smart city and remote health monitoring to mention few. The current invention is to provide remote health monitoring to needed patients whose vital signs are monitored by physicians in real time and give treatment. It has provision for fog layer integration with cloud and IoT infrastructure. The IoT based remote patient monitoring is a workflow based use case that needs service placement strategy and fault tolerance. The current invention has provision for fog-cloud integration for improving latency performance besides placing services ideally in such a way that the workflow application is fault tolerant. The current invention is beneficial to different stakeholders such as patients, doctors, healthcare professionals, healthcare practitioners, healthcare units, industry and academia.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013631 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESS OF ENHANCING THE DURABILITY OF TITANIUMDIOXIDE PARTICLES

(51) International classification	:C09C0001360000, C08K0003220000, B82Y0030000000, C09C0003060000, C08K0009020000	(71) Name of Applicant : 1)The Kerala Minerals and Metals Ltd Address of Applicant :Sankaramangalam, Chavara, Kollam, Kerala. Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr.Jabeera.B
(33) Name of priority country	:NA	2)Shaju I.K
(86) International Application No	:NA	3)Manikuttan P. K
Filing Date	:NA	4)Chandrabose. J
(87) 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: Process of Enhancing the Durability of Titanium Dioxide Particles. A process for making high durable titanium dioxide pigment without compromising its dispersion ability is disclosed. The nano silica coating is done first by seeding nano silica to sodium silicate solution, wherein said nano silicate solution is coated on titanium dioxide slurry. Subsequently, 0.3% citric acid and 0.1% isopropyl alcohol to the slurry. Further, nano alumina coating is performed by seeding nano alumina to sodium aluminate solution and coating said nano aluminate solution on the slurry. Up to 6% silica and up to 4% alumina is coated on titanium dioxide slurry based on the weight of titanium dioxide.

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

(54) Title of the invention : NATURAL LANGUAGE PROCESSING BASED PATIENT MEDICAL CONDITIONS ASSESSMENT SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p>Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p>Filing Date</p> <p>(62) Divisional to Application Number</p> <p>Filing Date</p>	<p>:G16H0010600000, G16H0015000000, G16H0040200000, G16H0010200000, G16H0050700000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. SD PRABU RAGAVENDIRAN Address of Applicant :Associate Professor, Department of CSE, Erode Sengunthar Engineering College, Perundurai, Erode - 638057. Email id : sdpgobi@gmail.com Mobile No : 9865810981 Tamil Nadu India</p> <p>2)V AMMU</p> <p>3)Dr.S.Prithi</p> <p>4)Dr.R.Poonkuzhali</p> <p>5)Dr. N.Poornima</p> <p>6)Dr.T.M.Saravanan</p> <p>7)Mr.Kannan Ponkoodalingam</p> <p>8)Logu.K</p> <p>9)Ms.Madhuri B. Thorat</p> <p>10)Dr. Glorindal Selvam</p> <p>11)Nagaveni B Sangolgi</p> <p>12)Pushpa Patil</p> <p>(72)Name of Inventor :</p> <p>1)Dr. SD PRABU RAGAVENDIRAN</p> <p>2)V AMMU</p> <p>3)Dr.S.Prithi</p> <p>4)Dr.R.Poonkuzhali</p> <p>5)Dr. N.Poornima</p> <p>6)Dr.T.M.Saravanan</p> <p>7)Mr.Kannan Ponkoodalingam</p> <p>8)Logu.K</p> <p>9)Ms.Madhuri B. Thorat</p> <p>10)Dr. Glorindal Selvam</p> <p>11)Nagaveni B Sangolgi</p> <p>12)Pushpa Patil</p>
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(57) Abstract :

Continuous monitoring patients with chronic illnesses, including heart failure, diabetes, and asthma characterizes one of the utmost challenges fronting contemporary medicine. Patients with chronic illnesses need continuing, follow-up treatment and care to properly manage their conditions. Regrettably, a number of these patients do not obtain ongoing treatment and care, receive treatment and care on an irregular root, or obtain treatment and care which is not in agreement with suggested guidelines. In a worse condition, patients frequently fail to undergo the basic humble day-to-day tasks that could avoid or decrease the frequency and magnitude of a calamitous event such as a hospitalization. As a result, these patients frequently and unreasonably hurt from symptoms of their chronic illness which could have been diminished or prohibited with proper ongoing treatment and care. Additionally, some of these patients may later require hospitalization, or in severe cases some of these patients may die, both of which may have been prevented if the patient was receiving the proper ongoing treatment and care. This invention provides a method, in a data processing system containing a processor unit and a memory unit, for values to connect with medical situations of a patient. The method includes receiving, by the data processing system, a patient assessment including a natural language question and a matching answer, about a patient, provided in response to the question. The method additional includes execution, by the data processing unit, cognitive natural language processing on the patient valuation to extract features from the natural language question and matching answer. The method also includes assessing, by the data processing unit, the extracted features within a situation of a pre-existing electronic medical record of the patient. In addition, the method includes finding, by the data processing unit, a value for a medical disorder of the patient constructed on results of the assessment and storing, by the data processing unit, the determined value for the medical disorder in the electronic medical record for the patient.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013649 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ROAD ESCALATOR

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p>Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p>Filing Date</p> <p>(62) Divisional to Application Number</p> <p>Filing Date</p>	<p>:E01C0001000000, G09F0027000000, H02J0007350000, E01F0015080000, H02S0010000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Rashmi R. Hunnur Address of Applicant :Associate Professor Visvesvaraya Technological University (VTU) Basaveshwar Engineering College (Autonomous) Management Studies (MBA) Bagalkot, KARNATAKA, INDIA. hunnurmba@gmail.com 9449159015 Karnataka India</p> <p>2)Dr. S. S. Injaganeri</p> <p>3)Prof. Sandeep N. Kugali</p> <p>4)Prof. Brijmohan A. Vyas</p> <p>5)Mr. Prasad. P. Umarji</p> <p>6)Mr. Chandrashekhar P D</p> <p>7)Mr. Channabasav Hiremath</p> <p>8)Mr. Khajahusen</p> <p>9)Mr. Kiran M Rathod</p> <p>10)Ms. Dhanashree Mahendrakar</p> <p>11)Ms. Yashodha Metagar</p> <p>12)Santoshimata Bhadrannavar</p> <p>13)Veeranna Kotagi</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Rashmi R. Hunnur</p> <p>2)Dr. S. S. Injaganeri</p> <p>3)Prof. Sandeep N. Kugali</p> <p>4)Prof. Brijmohan A. Vyas</p> <p>5)Mr. Prasad. P. Umarji</p> <p>6)Mr. Chandrashekhar P D</p> <p>7)Mr. Channabasav Hiremath</p> <p>8)Mr. Khajahusen</p> <p>9)Mr. Kiran M Rathod</p> <p>10)Ms. Dhanashree Mahendrakar</p> <p>11)Ms. Yashodha Metagar</p> <p>12)Santoshimata Bhadrannavar</p> <p>13)Veeranna Kotagi</p>
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(57) Abstract :

TITLE OF INVENTION: ROAD ESCALATOR FIELD OF INVENTION: MANAGEMENT ABSTRACT: The Invention discloses a system capable of avoiding road accidents at traffic signals, the system uses solar energy to power the assembled components, Adopting renewed resource like solar energy can advance the road system effectively where traffic system will be upgraded and the infrastructure of the roads will be improved. The Road escalator system helps children's, old age people and handicaps to cross the road.

No. of Pages : 16 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013664 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ALL SEASON SLEEPING BAG

(51) International classification	:A47G0009080000, A61K0008891000, E04B0001740000, A47C0027080000, B01F0017000000	(71) Name of Applicant : 1)NAYAK, Prakash Address of Applicant :#401, AUM Sadan, CMC Enclave, Botanical Garden Road, Kondapur, Hyderabad 500084, Telangana, India Telangana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAYAK, Prakash
(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 all season sleeping bag comprising multiple layers, where addition of each individual layer increases the overall thermal insulation of the sleeping bag while reducing the layers decreases the thermal insulation thereby making it suitable for use in hot and humid conditions as well is disclosed. This is a true layer-by-layer sleeping bag where the thermal insulation increases with addition of layers or decreases by removing layers. During summers when the temperature goes above 32 °C or 90 °F, the sleeping bag can be used with the base and first layer only. Notably, no insulating material has been used in any of the layers of this sleeping bag. Fig. 2

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013761 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESSOR IMPLEMENTED METHOD FOR WATERMARKING AND CYBER PROTECTION OF DEEP LEARNING MODELS

<p>(51) International classification :H04L0029060000, G06N0003080000, H04L0009060000, G06F0021570000, G06N0020000000</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. C. Kailasanathan Address of Applicant :Professor, Department of Mechanical Engineering, Sethu Institute of Technology, Tamilnadu, India Tamil Nadu India</p> <p>2)Dr. Balachandran Krishnan</p> <p>3)Sujatha A K</p> <p>4)Dr. Boppuru Rudra Prathap</p> <p>5)Dr. K. Arun Balasubramanian</p> <p>6)Dr. Regonda Nagaraju</p> <p>7)Dr. Bhavani Buthukuri</p> <p>8)Sivaram Rajeyyagari</p> <p>9)V Vinay Kumar</p> <p>10)Dr. K. Vinayagar</p> <p>11)Dr. A. Perumal</p> <p>12)Dr. G.Venkatesan</p> <p>13)Dr. G. Nagaraj</p> <p>(72)Name of Inventor :</p> <p>1)Dr. C. Kailasanathan</p> <p>2)Dr. Balachandran Krishnan</p> <p>3)Sujatha A K</p> <p>4)Dr. Boppuru Rudra Prathap</p> <p>5)Dr. K. Arun Balasubramanian</p> <p>6)Dr. Regonda Nagaraju</p> <p>7)Dr. Bhavani Buthukuri</p> <p>8)Sivaram Rajeyyagari</p> <p>9)V Vinay Kumar</p> <p>10)Dr. K. Vinayagar</p> <p>11)Dr. A. Perumal</p> <p>12)Dr. G.Venkatesan</p> <p>13)Dr. G. Nagaraj</p>
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(57) Abstract :

The present invention relates to processor implemented method for watermarking and cyber protection of deep learning models. The objective of the present invention is to solve the problems in the prior art related to technologies of cyber security in communication and processing of block chain data.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013775 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A STORAGE SYSTEM FOR DATA ENCRYPTION AND DECRYPTION USING LINE GRAPHS AND METHOD THEREOF

(51) International classification	:G06F0016901000, G06T0011200000, G06F0017100000, G06T0001600000, G06T0001200000	(71) Name of Applicant : 1)Sanjana Theresa Address of Applicant :Department of Mathematics, CHRIST (Deemed to be University), Bengaluru, India. Karnataka India 2)Dr. Joseph Varghese Kureethara 3)Dr. Samiksha Shukla 4)Dr. Jossy P George
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sanjana Theresa
(33) Name of priority country	:NA	2)Dr. Joseph Varghese Kureethara
(86) International Application No	:PCT//	3)Dr. Samiksha Shukla
Filing Date	:01/01/1900	4)Dr. Jossy P George
(87) 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 storage system in a computer network for data encryption and decryption using line graphs and method thereof. The system includes, but not limited to, a processing unit in a computer network that includes at least one hardware processor, the processing system configured to perform: to represent data as vertices in a graph; wherein each character is correspond to a vertex while all adjacent characters in the plaintext will be represented as adjacent vertices in the graph. The processing unit keep adding vertices until form a path graph G. Further, identify the nearest prime number (P) greater than or equal to the values listed in the encryption chart (E), and name each vertex using the above mentioned prime numbers (P). Accompanied Drawing [FIG. 1]

No. of Pages : 27 No. of Claims : 7

(54) Title of the invention : A METHOD FOR INFORMATION ON ARRIVAL TIME OF BUSES AT BUS STOP

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:B60N0002240000, G06N0020000000, H04L0029080000, E04H0001120000, G06F0016230000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:PCT// :01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr Raghavi K Bhujang Address of Applicant :Designation: Associate Professor Department: Department of Computer Applications and Information Technology Institution address: ISBR Business School, Electronic City, Bangalore Email id: raghavikb@isbr.in Mobile No : 9886394833 Karnataka India</p> <p>2)Malatesh Kamatar</p> <p>3)Prashant Kogali</p> <p>4)Sanjay V Chowdhary</p> <p>5)Shashidhar P K</p> <p>6)Dr. Loshma Guniseti</p> <p>7)Dr.Parashuram Baraki</p> <p>8)Prasanna Kumar M</p> <p>9)Jagadeesh B N</p> <p>10)Veeranna K</p> <p>(72)Name of Inventor :</p> <p>1)Dr Raghavi K Bhujang</p> <p>2)Malatesh Kamatar</p> <p>3)Prashant Kogali</p> <p>4)Sanjay V Chowdhary</p> <p>5)Shashidhar P K</p> <p>6)Dr. Loshma Guniseti</p> <p>7)Dr.Parashuram Baraki</p> <p>8)Prasanna Kumar M</p> <p>9)Jagadeesh B N</p> <p>10)Veeranna K</p>
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(57) Abstract :

The Invention discloses a novel approach for disseminating information to travelers waiting at Bus Station regarding Arrival Timings of their Bus and Seat availability Status. The approach Uses IOT Module and Machine Learning Module for better accuracy and alert system.

No. of Pages : 14 No. of Claims : 2

(54) Title of the invention : Virtual Healthcare Assistant

(51) International classification	:A61B0005000000, A61B0005103000, A61B0005145500, G16H0010600000, G16H0050200000	(71) Name of Applicant : 1)D.Hariharan Address of Applicant :R.M.K Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavaraipettai, Tamil Nadu, India - 601 206. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)D.Hariharan
(33) Name of priority country	:NA	2)R.Harish Kumar
(86) International Application No	:PCT//	3)R.Hariharan
Filing Date	:01/01/1900	4)Dr.T.Sethukarasi
(87) International Publication No	: NA	5)Dr.C.Geetha
(61) Patent of Addition to Application Number	:NA	6)Dr.K.A. Mohamed Junaid
Filing Date	:NA	7)Dr.N.M. Jothi Swaroopan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A virtual healthcare assistant is described in the present invention. More specifically, the invention describes the development of non-invasive optical fiber sensor architecture adaptable to a shoe sole for plantar pressure remote monitoring, which is suitable to be integrated in an IoT e-Health solution to monitor the wellbeing of individuals. (Refer Fig. 1 and 2)

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013783 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : Hybrid Microgrid Optimization using HOMER Software

(51) International classification	:H02J0003380000, G06Q0010040000, H05K0005020000, G06F0009460000, G06F0119060000	(71) Name of Applicant : 1)Ravivarma.P Address of Applicant :R.M.K Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarepettai, Tamil Nadu, India - 601 206. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ravivarma.P
(33) Name of priority country	:NA	2)Dr.K.A. Mohamed Junaid
(86) International Application No	:PCT//	3)Dr.N.M. Jothi Swaroopan
Filing Date	:01/01/1900	4)Rakesh Vibahar.R.M
(87) International Publication No	: NA	5)Purusothaman.S
(61) Patent of Addition to Application Number	:NA	6)Gurudevan.M
Filing Date	:NA	7)A.Fayaze Ahamad
(62) Divisional to Application Number	:NA	8)Vishnu Priya K S
Filing Date	:NA	

(57) Abstract :

A hybrid microgrid optimization using HOMER Software is described in the present invention. More specifically, the invention describes the modelling of a hybrid micro grid with systems, such as solar photovoltaic power (PV) (102) and wind energy system (104) etc. It is important to optimize the size of hybrid microgrid system components including storage and to determine system cost and reliability. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013784 A

(19) INDIA

(22) Date of filing of Application :27/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : Precision Agriculture

(51) International classification :A01C0023040000,
A01G0027000000,
A01G0025160000,
G06Q0050020000,
A01K0063000000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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)Arun Kumar D

Address of Applicant :R.M.K Engineering College, RSM
Nagar, Gummidipoondi Taluk, Tiruvallur, Kavaraipettai, Tamil
Nadu, India - 601 206. Tamil Nadu India

(72)Name of Inventor :

1)Arun Kumar D

2)Dr.K.A. Mohamed Junaid

3)Dr.N.M. Jothi Swaroopan

4)Abhishek S

5)Advaid P Anoop

6)Annie Isabella L

(57) Abstract :

A precision farming is done by the design and develop an automatic irrigation and fertilization system which helps the farmers to get better yield as it supervises the field regularly and supplies ample amount of water as and when required. (Refer Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013786 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AGRO CROP RECOMMENDATION USING MACHINE LEARNING

(51) International classification	:G06K0009620000, G06N0020000000, G06Q0010040000, G06Q0050020000, A01G0025160000	(71) Name of Applicant : 1)Bhavya D Address of Applicant :R.M.K Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavaraipettai, Tamil Nadu, India - 601 206. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Bhavya D
(33) Name of priority country	:NA	2)Dr.K.A. Mohamed Junaid
(86) International Application No	:NA	3)Dr.N.M. Jothi Swaroopan
Filing Date	:NA	4)Harini S
(87) International Publication No	: NA	5)Archana J
(61) Patent of Addition to Application Number	:NA	6)P Gunasekhar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An agro crop recommendation using machine learning is described in the present invention. In this system, instead of manually uploading the data, the actual properties from the soil (102) and air (103) are detected using sensors and uploaded. This data from the sensors are converted into usable set of data using the Data mining approach which creates patterns using these huge datasets. Using Support Vector Machine (SVM) algorithm (106), these data are classified. The crop and fertilizer recommendation (107) along the yield prediction (108) based on the land size are implemented. (Refer Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013787 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LPG MONITORING AND AUTOMATIC CYLINDER BOOKING

(51) International classification :G06F0011070000,
G06Q0010020000,
G06F0119060000,
G06Q0050120000,
A61B0005021000

(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)Bharath Singh J

Address of Applicant :R.M.K Engineering College, RSM
Nagar, Gummidipoondi Taluk, Tiruvallur, Kavaraipettai, Tamil
Nadu, India - 601 206. Tamil Nadu India

(72)Name of Inventor :

1)Bharath Singh J

2)Dr.K.A. Mohamed Junaid

3)Dr.N.M. Jothi Swaroopan

4)Jayapriya YU

5)Monica R

(57) Abstract :

An LPG monitoring and automatic cylinder booking is described in the present invention. Leakages will be detected by the sensors and it will be intimated to the user via messages. If the leakage is not addressed within the given time or the temperature sensor reaches the maximum value, the exit automation is done by opening the doors and windows of the particular room or shutdown the main power when the temperature is greater than the room temperature. The weight of the cylinder is continuously monitored by sensors and if the low level is detected, a message will be send to both the user and the vendor, thus automatic booking happens. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013788 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SADDLE TYPE VEHICLE

(51) International classification :B62K0011040000,
B62J0011000000,
B62J0006040000,
B62J0001140000,
B62J0001120000

(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)TVS Motor Company Limited
Address of Applicant :TVS Motor Company Limited
Chaitanya • , No. 12, Khader Nawaz Khan Road, Nungambakkam
Tamil Nadu India

(72)**Name of Inventor :**
1)RAVISANKAR RAJAMANI
2)AMIT DILIP RAJWADE
3)SHATHICK BASHA JEELANI
4)NAGARAJAN CHANDRASEKAR
5)DHURI AMEY GOVIND
6)KRISHNA KUMAR VIJAYAKUMAR
7)DEEPAK NAGARAJU
8)BALAJI RAVICHANDRAN VIGNESH
9)SYAM SASIDHARAN

(57) Abstract :

The present invention is related to a saddle-type vehicle (100). The saddle type vehicle (100) comprising a frame assembly (101). The frame assembly (101) includes a pillion rider support structure (202) being attached to a pair of left and right seat rails (103). The pillion rider support structure (202) includes a plurality of attachment points. The attachment points are configured to receive two or more devices including the tail lamp unit (105), storage box (201) thereby eliminates the plurality of mounting structure required to mount two or more devices. This reduces the overall weight of the frame assembly (101).

No. of Pages : 29 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013795 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PROCESS OF PREPARATION OF ATHLETES™ NUTRI BAR AND PRODUCT THEREOF

(51) International classification	:A23L0025000000, A23L0007126000, A23L0025100000, A23L0007117000, A21D0002380000	(71) Name of Applicant : 1)AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN Address of Applicant :BHARATHI PARK ROAD TATABAD, FOREST COLLEGE CAMPUS SAIBABA COLONY, COIMBATORE TAMIL NADU INDIA 643041 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ABHIRAMI SIVAPRASAD
(33) Name of priority country	:NA	2)Dr. S. KOWSALYA
(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 :

APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN TITLE: A PROCESS OF PREPARATION OF ATHLETES™ NUTRI BAR AND PRODUCT THEREOF ABSTRACT The present invention discloses a process of preparation of athletes™ nutri bar with improved nutritional value. The process of the present invention comprises of following steps; a. drying and grinding Ulva fasciata followed by heating in a electric muffle furnace maintained at a predetermined temperature for predetermined time to form Ulva fasciata powder; b. drying and powdering Basil Seeds to form Basil Seeds powder; c. drying and powdering Sweet potato to form Sweet potato flour; d. melting predetermined amount of of jaggery powder in predetermined volume of water at predetermined temperature until formation of thread-like consistency to form a jaggery syrup; e. adding predetermined amount of the Ulva fasciata powder, predetermined amount of the Basil Seeds powder, predetermined amount of the Sweet potato flour, predetermined amount of Peanut Butter, predetermined amount of Liquid Glucose, predetermined amount of Almond powder, predetermined amount of Cashew nut, predetermined amount of Raisins, predetermined amount of Oats, predetermined amount of Honey, predetermined amount of Sunflower oil into the said jaggery syrup followed by through mixing to form a nutritive mixture; f. pouring the nutritive mixture onto moulds, followed by pressing and cooling for predetermined time and cut into desired shapes finally dipped into melted chocolate to form athletes™ nutri bar. The present invention also disclose an athletes™ nutri bar prepared by the process of the present invention.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013880 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COUNTERFEIT PRODUCT IDENTIFICATION SYSTEM UTILIZING BLOCKCHAIN INNOVATION •

(51) International classification	:G06Q0010080000, G06Q0030000000, G06Q0050180000, H01L0029660000, G01N0021330000	(71)Name of Applicant : 1)REKHA B H Address of Applicant :Assistant Professor Department of Information Science and Engineering BIET, Davangere, Karnataka, INDIA Karnataka India 2)PUNEETH S P 3)PAVAN KUMAR S C 4)BHAVANA S P 5)POORNIMA D V 6)NAVEEN G 7)DHANANJAYA G M 8)N S PATIL 9)BHUVANESHWARI K V 10)RADHIKA PATIL
(31) Priority Document No	:NA	(72)Name of Inventor : 1)REKHA B H 2)PUNEETH S P 3)PAVAN KUMAR S C 4)BHAVANA S P 5)POORNIMA D V 6)NAVEEN G 7)DHANANJAYA G M 8)N S PATIL 9)BHUVANESHWARI K V 10)RADHIKA PATIL
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(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 :

ABSTRACT COUNTERFEIT PRODUCT IDENTIFICATION SYSTEM UTILIZING BLOCKCHAIN INNOVATION • From the most recent decade, drug organizations are confronting challenges in following their items during the store network measure, permitting the forgers to add their phony meds into the market. Fake medications are breaking down as an exceptionally large test for the drug business around the world. As shown by the insights, yearly business loss of around \$200 billion is accounted for by US drug organizations because of these fake medications. These medications may not assist the patients with recuperating the sickness yet have numerous other risky results. As indicated by the World Health Organization (WHO) review report, in immature nations each tenth medication use by the purchasers is fake and has inferior quality. Consequently, a framework that can follow and follow drug conveyance at each stage is expected to tackle the falsifying issue. The blockchain has the maximum capacity to deal with and track the production network measure proficiently. In this invention, we have proposed and actualized a novel blockchain and AI based medication store network the board and suggestion framework. Figure 1

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

(54) Title of the invention : RAILWAY GATE CONTROLLER: INTELLIGENT RAILWAY GATE CONTROLLER WITH HIGH SPEED ALERTING SYSTEM.

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:B61L0029180000, B61L0029280000, B61L0029220000, B61L0029000000, B61L0025040000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. M. Madheswaran (Professor) Address of Applicant :Department of Electrical and Electronics Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. Tamil Nadu India</p> <p>2)Dr. B. Gopi (Professor)</p> <p>3)Dr. U. Saravanakumar (Professor)</p> <p>4)Dr. D. Sasikala (Professor)</p> <p>5)Dr. J. Kirubakaran (Associate Professor)</p> <p>6)Dr. C. Santhoshkumar (Associate Professor)</p> <p>7)Dr. S. Selvarasu (Associate Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. M. Madheswaran (Professor)</p> <p>2)Dr. B. Gopi (Professor)</p> <p>3)Dr. U. Saravanakumar (Professor)</p> <p>4)Dr. D. Sasikala (Professor)</p> <p>5)Dr. J. Kirubakaran (Associate Professor)</p> <p>6)Dr. C. Santhoshkumar (Associate Professor)</p> <p>7)Dr. S. Selvarasu (Associate Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention Railway Gate Controller: Intelligent Railway Gate Controller with High Speed Alerting System is intelligent intersection control system features an internal controller that receives digital messages containing detailed information items concerning. The invention is also the direction, speed, length, color, train type and identity of a train and also the controller generates appropriate commands that coordinate the functions of crossing safety devices. The invention is to a controller is capable of receiving and using much more detailed train information than is possible with conventional warning systems and also the Railroad crossing warning features are capable of responding more flexibly to this more detailed train information. The invention is to the control system and displays crossing status information including the amount of time remaining until a crossing is cleared of train traffic, the approach of a second train during blocking of the crossing by a first train, or a suggested alternate route for waiting road vehicles. The invention is to a controller may also be used to actuate numerous standard crossing warning features, including crossing blocking arms, flashing lights, warning chimes and warning horns and other required things as per need. The invention is also including an automatic railway crossing control system and aims to provide the automatic railway crossing control system which is high in degree of automation, and safer and more reliable.

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

(54) Title of the invention : ALERT NOTIFICATION: ALERT NOTIFICATION RAILWAY DRIVER USING PRESSURE SENSORS ON RAILWAY TRACKS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p style="text-align: right;">:B61L0027000000, B61L0029320000, B61L0025020000, A61B0005000000, B61L0023060000</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p> <p style="text-align: right;">:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. U. Saravanakumar (Professor) Address of Applicant :Department of Electrical and Electronics Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. Tamil Nadu India</p> <p>2)Dr. M. Madheswaran (Professor)</p> <p>3)Dr. B. Gopi (Professor)</p> <p>4)Dr. C. Selvi (Associate Professor)</p> <p>5)Dr. T. Kowsalya (Professor)</p> <p>6)Dr. N. Kaliammal (Professor)</p> <p>7)Mr. S. Bhoopalan (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. U. Saravanakumar (Professor)</p> <p>2)Dr. M. Madheswaran (Professor)</p> <p>3)Dr. B. Gopi (Professor)</p> <p>4)Dr. C. Selvi (Associate Professor)</p> <p>5)Dr. T. Kowsalya (Professor)</p> <p>6)Dr. N. Kaliammal (Professor)</p> <p>7)Mr. S. Bhoopalan (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our invention Alert Notification: Alert Notification Railway Driver Using Pressure Sensors on Railway Tracks is to a method of monitoring, notification and controlling components of a railway system which includes a track and at least one train that is operable to run on said track. The invention is to a providing an acoustic transducer proximate the railway for picking up acoustic signals and receiving acoustic signals from the transducer and analysing the received signals. The invented technology is also a system for linking alarm data from physically disassociated wireless sensors to a train in motion and the sensor secured to a wheel axle-box of a rail carriage of a train to detect, notify an over temperature alarm to enable a driver to stop the train. The invented technology is also a memory unit comprises an area dedicated to storing a logic object representative of said at least one piece of trackside equipment the logic object being executable by the processor and comprising a plurality of logic rules defining the operation of said at least one piece of trackside equipment. The invented technology is also a sensor data contains at least the current speed of the rail-borne vehicle and the detected sensor data are transmitted by the track-side sensor device to a stationary control device and a switch-on time is determined by the stationary control device taking into account the transmitted sensor data and route data.

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

(54) Title of the invention : BEHAVIOR OF NUMERICAL EVALUATION: INTELLIGENT NUMERICAL EVALUATION OF THE BEHAVIOR OF A REINFORCED CONCRETE BUILDING

<p>(51) International classification :G06F0030230000, G06F0030200000, G06F0030130000, E01D0101260000, G06F0030360000</p> <p>(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</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. R. Shanmugam (Prof & Head) Address of Applicant :Department of Civil Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. Tamil Nadu India</p> <p>2)Mr. K. Sankar (Assistant Professor) 3)Mr. M. Gopinath (Assistant Professor) 4)Mr. J. Eraianbu (Assistant Professor) 5)Mr. S. Sekar (Assistant Professor) 6)Mr. S. Gokulakannan (Assistant Professor) 7)Ms. L. S. Reena (Assistant Professor) 8)Mrs. M. Sanchaya (Assistant Professor) 9)Mrs. R. Selvapriya (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. R. Shanmugam (Prof & Head) 2)Mr. K. Sankar (Assistant Professor) 3)Mr. M. Gopinath (Assistant Professor) 4)Mr. J. Eraianbu (Assistant Professor) 5)Mr. S. Sekar (Assistant Professor) 6)Mr. S. Gokulakannan (Assistant Professor) 7)Ms. L. S. Reena (Assistant Professor) 8)Mrs. M. Sanchaya (Assistant Professor) 9)Mrs. R. Selvapriya (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention Behavior of Numerical Evaluation: Intelligent Numerical Evaluation of the Behavior of a Reinforced Concrete Building is an aim of this improved is to compare the predictions of the develop and design load-carrying capacity of slabs obtained with simplified analytical and advanced numerical procedures which can be readily used by analysts in the current design process. The Invention is to a innovation and research fits into a innovation and research programme initiated by the Dutch Ministry of Infrastructure and the Environment for the re-examination of the load-carrying capacity of existing bridges and viaducts. The invention is to a beams and slabs they include, through the use of non-linear finite-element analyses and the defined behaviour of reinforced concrete slabs subjected to concentrated loads close to their supports is investigated in this contribution. The invention is to a three tests from a series of 18 slabs with a total of 108 tests, tested at Delft University of Technology, were selected as case studies and analysed with non-linear finite-element analyses and analytical models either request and proposed by new design codes. The invention is to a research and innovation agrees well with the philosophy of the fib Model Code for Concrete Structures 2020, which offers different analytical and advanced numerical calculation methods for evaluating the develop and design shear resistance of reinforced concrete members according to different levels of approximation.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : POLLUTION MONITORING AND NOTIFICATION: WATER POLLUTION MONITORING AND NOTIFICATION USING INTELLIGENT RC BOAT.

<p>(51) International classification :G01N0033180000, H04W0084180000, G01N0033000000, G01D0021020000, G08C0017020000</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 style="padding-left: 20px;">Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. S. Sundaram (Professor & Dean) Address of Applicant :Department of Mechanical Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. Tamil Nadu India</p> <p>2)Dr. P. Suresh (Professor)</p> <p>3)Dr. R. Senthil kumar (Professor)</p> <p>4)Dr. S. Boopathi (Professor)</p> <p>5)Dr. T. Yuvaraj (Associate Professor)</p> <p>6)Dr. D. Deepa (Associate Professor)</p> <p>7)Mr. A. Kalaiyaran (Assistant Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. S. Sundaram (Professor & Dean)</p> <p>2)Dr. P. Suresh (Professor)</p> <p>3)Dr. R. Senthil kumar (Professor)</p> <p>4)Dr. S. Boopathi (Professor)</p> <p>5)Dr. T. Yuvaraj (Associate Professor)</p> <p>6)Dr. D. Deepa (Associate Professor)</p> <p>7)Mr. A. Kalaiyaran (Assistant Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention Pollution Monitoring and Notification: Water Pollution Monitoring and Notification using Intelligent RC Boat is a belongs to wireless sensing networks and environmental pollution detection, and a water quality detection instrument. The Invention is to a water quality detection instrument comprises a data acquisition node and a handheld terminal the acquisition node comprises a water quality sensor a data acquisition interfaces an MCU and a Zigbee module. The Invention is to a handheld terminal comprises a Zigbee coordinator and a data processing module the MCU is used for reading water quality data acquired by the sensor through the data acquisition interface the Zigbee module is used for transmitting the acquired water quality data to the Zigbee coordinator. The invention is to a data processing module is used for analyzing, storing and displaying the water quality data received by the Zigbee coordinator and alos the invention further discloses a water quality detection method. The water quality detection instrument and method the defects of a detection mode of a conventional detection instrument are overcome, detection items are more comprehensive, the data acquisition part can be separated from the handheld terminal and the detection is more flexible.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : COMFORT VEHICLE: INTELLIGENT 360- DEGREE ROTATING FULLY COMFORT VEHICLE

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:B60K0007000000, A63G0025000000, B62K0017000000, B62B0005000000, B62K0005020000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. P. Suresh (Professor) Address of Applicant :Department of Mechanical Engineering, Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India Tamil Nadu India</p> <p>2)Dr. R. Thanigaivelan (Professor & Head)</p> <p>3)Dr. K. Gunasekaran (Professor)</p> <p>4)Dr. N. Natarajan (Professor)</p> <p>5)Dr. J. Bensam Raj (Professor)</p> <p>6)Dr. D. Velmurugan (Associate Professor)</p> <p>7)Dr. J. Sathish Kumar (Associate Professor)</p> <p>(72)Name of Inventor :</p> <p>1)Dr. P. Suresh (Professor)</p> <p>2)Dr. R. Thanigaivelan (Professor & Head)</p> <p>3)Dr. K. Gunasekaran (Professor)</p> <p>4)Dr. N. Natarajan (Professor)</p> <p>5)Dr. J. Bensam Raj (Professor)</p> <p>6)Dr. D. Velmurugan (Associate Professor)</p> <p>7)Dr. J. Sathish Kumar (Associate Professor)</p>
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(57) Abstract :

ABSTRACT Our Invention Comfort Vehicle: Intelligent 360- Degree Rotating Fully Comfort Vehicle is to a electromotive bumper car which can rotate 360 degrees and the vehicle body is round the bumper car totally has four travelling wheels, wherein two wheels serving as power wheels are positioned within the circle drawn by the diametrical line of the centre point. The invention is the left power wheel and the right power wheel respectively adopt two motor sprocket wheels to be respectively connected with two motors through chains and the angle between a front universal wheel and a main power wheel is 90 degrees while the angle between a back universal wheel and the main power wheel is 90 degrees. The invention is to the front universal wheel and the back universal wheel pass through the circle drawn by the diametrical line of the centre point the main power wheel and the sprocket wheels are coaxially mounted and a transmission shaft is mounted between bearing seats. The invention is utility model provides a pre-driving front wheel driven 360-degree steering electro mobile, which comprises an integral electromobile frame, a front wheel, two rear wheels and a storage battery box, wherein the front wheel is an independently-driven front wheel; the front wheel is provided with a front fork lever, a steering yoke and a steering wheel by the electromobile.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013888 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PASSWORD BASED INTELLIGENT CIRCUIT BREAKER

(51) International classification	:H02J0013000000, H02J0003140000, G06Q0050060000, H01H0009540000, H01H0071000000	(71)Name of Applicant : 1)Dr. B. Gopi (Professor) Address of Applicant :Department of Electronics and Communication Engineering , Muthayammal Engineering College (Autonomous), Rasipuram, Tamil Nadu 637408, India. Tamil Nadu India 2)Dr. M. Madheswaran (Professor) 3)Dr. J. Rangarajan (Professor) 4)Dr. T. Kowsalya (Professor) 5)Prof. P. Padmaloshani (Associate Professor) 6)Dr. G. Sudha (Professor) 7)Dr. C. Selvi (Associate Professor)
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. B. Gopi (Professor) 2)Dr. M. Madheswaran (Professor) 3)Dr. J. Rangarajan (Professor) 4)Dr. T. Kowsalya (Professor) 5)Prof. P. Padmaloshani (Associate Professor) 6)Dr. G. Sudha (Professor) 7)Dr. C. Selvi (Associate Professor)
(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 Our Invention Password based Intelligent Circuit Breaker is a system and associated components for providing an intelligent circuit breaker being adapted to WI-FI communicate with, monitor and control various devices within a commercial or residential premises. The invention is to a is adapted for low cost ease of installation and operation, and ease of manufacture and also the intelligent circuit breaker may also be adapted to send data relating to sensed parameter or conditions to and receive commands from, a user interface. The invention is to a intelligent circuit breaker is provided and an electronic device can be electrically positioned between a utility and an electrical power outlet, electrical subpanel, load center, transformer, or other power distribution center. The invention is also including a password Based Circuit Breaker is a simple project that helps in controlling the electrical lines with the help of a password and also an electrical accident to the line man are increasing, while repairing the electrical lines due to the lack of communication between the electrical substation and maintenance staff. The invention is a arranged in such a way that maintenance staff or line man has to enter the password to ON/OFF the electrical line and if there is any fault in electrical line, then the line man will switch off the power supply to the line by entering password and comfortably repair the electrical line, and after coming to the substation line man switch on the supply to the particular line by entering the password. Separate passwords are assigned for each electrical lines.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013998 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD AND A SYSTEM FOR BANDWIDTH OPTIMIZATION IN A 5G COMMUNICATION PLATFORM

(51) International classification	:H04W0076270000, H04W0004240000, H04W0052020000, H04W0024080000, H04L0012140000	(71)Name of Applicant : 1)Dr.R.SUJATHA Address of Applicant :School of Electronics Engineering, Vellore Institute of Technology Vellore Tamil Nadu India 632014 Tamil Nadu India 2)Dr.S.PRABU 3)S.KARTHIKEYAN 4)Dr.S.KANNAN 5)Dr.T.Kowsalya 6)MOODA RAJESH 7)G F Harish Reddy 8)M.N.SAROJA
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.R.SUJATHA 2)Dr.S.PRABU 3)S.KARTHIKEYAN 4)Dr.S.KANNAN 5)Dr.T.Kowsalya 6)MOODA RAJESH 7)G F Harish Reddy 8)M.N.SAROJA
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(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 method for optimizing the performance of the mobile device operated in the 5G communication platform comprises the steps of receiving, by a first mobile wireless device, a request to perform a task. The method further comprises determining a re-allocation of utilization of resources by the said first mobile device across the linked networks in real-time on the bandwidth resource utilization information and on predetermined resource sharing rules and based on the determination, the said method further determines, whether performance of the task requires access to a wireless communication network with particular capability without tethering with a second mobile wireless device through the utilization of the first mobile wireless device. Finally, the method also determines a time period of a network inactivity that is employable to transition of the first mobile wireless device from a first communicative state to a second communicative state and at last transmits to the second mobile wireless device, the hopping off enabling the first mobile wireless device to perform the task via a connection with the wireless communication network through the second mobile wireless device by the first mobile wireless device,

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141014009 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM FOR IMPROVING CLEANUP OPERATION PERFORMANCE IN A DISTRIBUTED FILE SYSTEM AND METHOD THEREOF

(51) International classification :G06F0016182000,
G06F0012020000,
H04L0012280000,
G11C0011412000,
G06F0003060000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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)Dr.Purnachandra Rao Bobbepalli
Address of Applicant :B.Purna Chandra Rao, Santharavur
(Po), Chirala (Via), Prakasam District, Andhra Pradesh, India.
Andhra Pradesh India
(72)**Name of Inventor :**
1)Dr.Purnachandra Rao Bobbepalli

(57) Abstract :

The present invention discloses a system for improving cleanup operation performance in a distributed file system and method thereof. The system always monitors the number of live Data Nodes prior to write operation. If the number of Data Nodes is exactly one, then the write operation process needs to invoke the clear data functionality which will clear some data and allow the system with couple of data blocks for write operation. Further, if the number of live Data Nodes are high, then there is not be any issue. If the number of live Data Nodes are very less and exactly one, as per the existing architecture new Data Nodes is requested. If the Data Nodes are available at pool, then there will not be any issue. If the Data Nodes are not available then the write operation needs to be continued. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141014010 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM FOR IMPROVING READ OPERATION PERFORMANCE IN A DISTRIBUTED FILE SYSTEM AND METHOD THEREOF

(51) International classification	:G06F0012089700, G06F0016182000, G06F0012086200, H04L0029080000, G06F0012086600	(71) Name of Applicant : 1)Dr.Purnachandra Rao Bobbepalli Address of Applicant :B.Purna Chandra Rao, Santharavur (Po), Chirala (Via), Prakasam District, Andhra Pradesh, India. Andhra Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr.Purnachandra Rao Bobbepalli
(33) Name of priority country	:NA	
(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 discloses a system for improving read operation performance in a distributed file system and method thereof, which creates the various cache levels in a Cache memory integration with DataNode, which is further improving the read operation performance by decreasing the time complexity. Based on the analysis of values, there is an improvement in read operation performance compared to DistributedCache which is available in the existing architecture. The present invention provides cache levels mechanism to manage the interaction between main memory and cache memory, and prove the performance improvement by taking different levels. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141014011 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM FOR IMPROVING WRITE OPERATION PERFORMANCE IN A DISTRIBUTED FILE SYSTEM AND METHOD THEREOF

(51) International classification	:G06F0016182000, G06F0016901000, G06F0016110000, G06F0016000000, G06F0016245000	(71) Name of Applicant : 1)Dr. Purnachandra Rao Bobbepalli Address of Applicant :B.Purna Chandra Rao, Santharavur (Po), Chirala (Via), Prakasam District, Andhra Pradesh, India. Pin Code: 523185 Andhra Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Purnachandra Rao Bobbepalli
(33) Name of priority country	:NA	
(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 discloses a system for improving write operation performance in a distributed file system using non-sequential connectivity among data nodes and data blocks and method thereof. Whenever client wants to write data to the Distributed File System, client get the number of blocks from the Name Node. As per the proposed architecture the list is processed to create the fully directed graph. Each data block is considered as vertex and there is a path from each vertex to all other vertices in the graph. That means each data block is connected to all other data blocks so that there is no need to traverse sequentially from source Data Node till the end of the pipeline. The data block is copied to source data block. The shortest path to all other data blocks will be measured. Accompanied Drawing [FIG. 1]

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

(54) Title of the invention : MULTI-PURPOSE SWITCH ADAPTABLE FOR A SPECIFIC SDN BASED IOT ARCHITECTURE

(51) International classification	:H04W0040240000, H04L0012540000, H04W0088100000, H04W0060060000, H04L0029120000	(71) Name of Applicant : 1)Goutam Saha Address of Applicant :Department of Information Technology, School of Technology, North-Eastern Hill University
(31) Priority Document No	:NA	2)Rohit Kumar Das
(32) Priority Date	:NA	3)Nurzaman Ahmed
(33) Name of priority country	:NA	4)Arnab Maji
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Goutam Saha
(87) International Publication No	: NA	2)Rohit Kumar Das
(61) Patent of Addition to Application Number	:NA	3)Nurzaman Ahmed
Filing Date	:NA	4)Arnab Maji
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system and method of an architecture which provides edge computing facilities to a SDN based network (Ni: N1, N2,...,Nn) with the use of a hybrid edge switch (hi: h1, h2,...,hn) that merges two technologies of 6LoWPAN and SDN. The hybrid-edge the switch (hi: h1, h2,...,hn) comprises of 6LBR (2a) and OVS (2b), wherein 6LBR (2a) provides the border router functions accepting the IEEE 802.15.4 data and forwards the data to the OVS (2b) which translates it to SDN compatible format IEEE 802.11. The present invention proposes a routing protocol using said architecture. The developed hybrid edge switch (hi: h1, h2,...,hn) reduces the time to compute the routing path using its flow table feature. The flow table of said switch is populated with a routing path from the edge controller (1). The edge controller (1) which is placed in the edge of the network can perform the local computation within its domain. The edge controller (1) forward the packet to the global controller (Gi: G1, G2,..., Gn) assembly to obtain the routing path information when the edge controller (1) fails to perform.

No. of Pages : 37 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031042767 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : COAGULATED MILK (PANEER) SAUSAGE AND PREPARATION METHOD THEREOF

(51) International classification	:A23L0019000000, A23L0007196000, C12P0007060000, A23L0009100000, A21D0013400000	(71) Name of Applicant : 1)DIRECTOR, ICAR RESEARCH COMPLEX, FOR NEH REGION Address of Applicant :ICAR Research Complex for NEH Region, Umiam Ri-Bhoi District, Umiam Barapani Meghalaya India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)G. Kadirvel
(33) Name of priority country	:NA	2)A. Arun Prince Milton
(86) International Application No	:NA	3)Arnab Sen
Filing 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 method to produce coagulated milk (Paneer) sausage along with starchy vegetables, providing a nutritive, convenient and instant food, free of any meat substance specially suitable for vegetarian consumer worldwide and said preparation method can be employed for commercialization at industrial scale.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009045 A

(19) INDIA

(22) Date of filing of Application :04/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AIR WATER GENERATOR

(51) International classification	:E03B0003280000, B01D0005000000, C02F0001040000, F25B0039040000, C02F0001000000	(71) Name of Applicant : 1)Devendra Singh Address of Applicant :Baldari Tola New Area, Gaya, Bihar- Bihar India 2)Prem Sagar 3)Pritam Kumar 4)Shreya Sinha
(31) Priority Document No	:NA	(72) Name of Inventor : 1)Devendra Singh 2)Prem Sagar 3)Pritam Kumar 4)Shreya Sinha
(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 provides an Air water generator. The process of the present invention is based on the same thermodynamic principle, a household refrigerator works; the system lowers the temperature of condensing coil and extracts water, which is further purified to generate potable water. The system of the present invention circulates refrigerant through a condenser and then an evaporator coil which cools the air surrounding it .This lowers the air temperature to its dew point causing water to condense

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009172 A

(19) INDIA

(22) Date of filing of Application :04/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : EFFICACY OF 5% FORMALIN IN CONTRAST TO CONVENTIONAL 10% FORMALIN AND HIGHER CONCENTRATION OF FORMALIN (15%) ON PARAFFINIZED HISTOLOGICAL BLOCK OF ABORTED HUMAN FETUSES OF VARIOUS WEEKS OF GESTATION FOR IMMUNOHISTOCHEMISTRY, IMMUNOFISH AND IMMUNO ELECTRON MICROSCOPY PROCEDURES IN VIEW OF PRESERVATION OF CELLULAR ARCHITECTURE MINIMISING THE CARCINOGENICITY OF FORMALIN.

(51) International classification	:G01N0001300000, C12N0001040000, A61K0048000000, A61K0031115000, C07D0207090000	(71) Name of Applicant : 1)DrArpan Haldar Address of Applicant :Registrar Office Panchayat Training Institute Daburgram Jasidih All India Institute of Medical Sciences Deoghar Jharkhand-814142
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DrArpan Haldar
(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 effect of 5% Neutral Buffered Formalin in ImmunoFISH and Immunohistochemistry was demonstrated in which the more antigens were seen in the cell surface and resulted in increased immunopositivity as compared to 10% Neutral Buffered Formalin. 5% Formalin was presumed to be not so good fixative as compared to 10% Formalin but in current study it is shown that the cellular architecture is preserved with no torn of the tissues as well as no bubbling in the slide due to 95% concentration of distilled water in 5% Formalin. The increased expression was seen as brownish colouration in the immunohistochemistry slide more in case of 5% formalin that 10% neutral buffered formalin on the ground of which my current hypothesis was designed. Also keeping in view, the carcinogenicity and the health hazards related to formalin involving laboratory technicians and researchers involved in the lab, 5% Formalin can be the choice as compared to 10% Formalin.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009459 A

(19) INDIA

(22) Date of filing of Application :06/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND APPARATUS FOR CONTINUOUS ELECTRIC POWER GENERATION USING COMPRESSED AIR

(51) International classification	:B62D0005040000, F02B0043080000, H02N0002180000, G06N0003080000, F03D0009280000	(71) Name of Applicant : 1)Dr. Srikanth Allamsetty Address of Applicant :Assistant Professor, School of Electrical Engineering, Kalinga Institute of Industrial Technology Deemed to be University, Bhubaneswar-751024, Odisha India 2)Mr. Veeresalingam Guruguntla 3)Dr. Mohit Lal 4)Dr. Rizwan Patan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Srikanth Allamsetty
(33) Name of priority country	:NA	2)Mr. Veeresalingam Guruguntla
(86) International Application No	:NA	3)Dr. Mohit Lal
Filing Date	:NA	4)Dr. Rizwan Patan
(87) 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 method and apparatus for continuous electric power generation using compressed air. The objective of the present invention is to solve the problems in the prior art related to technologies of electric power generation using compressed air.

No. of Pages : 28 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009658 A

(19) INDIA

(22) Date of filing of Application :08/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATED SAMPLE HOLDERS FOR DYNAMIC MECHANICAL ANALYSIS IN BENDING AND TENSION MODES

(51) International classification	:G01N0003040000, G01N0003320000, G01N0003380000, F16H0061020000, H01J0037200000	(71) Name of Applicant : 1)Saurav Chatterjee Address of Applicant :Chairman, IPR Cell, (Prof. Saurav Chatterjee) National Institute of Technology Rourkela, Odisha - 769008. 91-6612462015 91-6612462999
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)S Srikant Patnaik
(33) Name of priority country	:NA	2)Kishor Kumar Kachari
(86) International Application No	:NA	3)Tarapada Roy
Filing 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 :

This proposed design of an automated sample holder allows to easily fix the sample for dynamic mechanical analysis (DMA). The removable gear based clamping module is developed to fix the sample separately without disturbing the sensitive probe of the DMA equipment. While for fixing the sample, the gear based clamping module provides same torque in all sides with single input torque and also delivers double lock with added grip to the sample. The key module with gear casing house and base are designed to fix the sample into the clamping module separately for various dynamic mechanical analysis under bending and tension modes

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009666 A

(19) INDIA

(22) Date of filing of Application :08/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TECHNIQUE OF USING 1-2% NAOH ON ABORTED HUMAN FETUSES OF VARIOUS WEEKS OF GESTATION THAN WIDELY USED KOH FOR MACERATION OF TISSUES WHILE PRESERVING THE SKELETON OF ABORTED HUMAN FETUSES FOR TEACHING AND MUSEUM PRESERVATION.

(51) International classification	:A01N0001000000, A61K0009190000, A01N0003000000, A47F0003000000, H01H0011000000	(71) Name of Applicant : 1)DrArpan Haldar Address of Applicant :Registrar Office, All India Institute of Medical Sciences, Deoghar, Jharkhand
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DrArpan Haldar
(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 :

Earlier researchers used 1-2% KOH for maceration of tissues of Aborted Human Fetuses of various weeks of gestation for teaching and Museum Preservation in 100% Glycerine. In this study 1-2% NaOH is used in place of KOH as it was earlier used to macerate the carcasses of dead animals in sealed chamber and by criminals to dispose of corpses. The method was found to be cost-effective, less time consuming and readily availability of NaOH. Earlier researchers used 1-2% KOH for maceration of tissues of Aborted Human Fetuses of various weeks of gestation for teaching and Museum Preservation in 100% Glycerine. In this study 1-2% NaOH is used in place of KOH as it was earlier used to macerate the carcasses of dead animals in sealed chamber and by criminals to dispose of corpses.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009815 A

(19) INDIA

(22) Date of filing of Application :09/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MODULAR NANO AND MICRO PHOTOLITHOGRAPHY INSTRUMENT

(51) International classification	:G02B0006420000, G06Q0030060000, G02B0007020000, G01J0001040000, E04C0001000000	(71) Name of Applicant : 1)TECHNOCULTURE RESEARCH PRIVATE LIMITED Address of Applicant :F No. 303 B Nutan Tower Kbagh, Karbigahiya, Patna - 800020, Bihar, India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Satyam
(33) Name of priority country	:NA	2)DUTTA, Pritam
(86) International Application No	:NA	3)DAS, Amit
Filing 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 nano and micro fabrication system having a modular design, i.e. having exchangeable or interchangeable modules. The fabrication system primarily includes a light engine module, a base module, an optical module, and a stage module that are swappable. The fabrication system also includes a software module that allows recognition of attachments and detachments of the various modules. Light engine in the present invention requires highly infrequent calibration, saving users great amount of time and hassle. The present system sets new benchmarks for ease of use, reliability and affordability. Design of present fabrication system primarily focusses on simplicity of the instrument, low cost, easy to handle, and most importantly being modular. The present fabrication system also has higher flexibility and affordability due to the swappable modules.

No. of Pages : 49 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009826 A

(19) INDIA

(22) Date of filing of Application :09/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : HERBAL PHARMACEUTICAL COMPOSITION FOR TREATING METABOLIC DISORDERS

(51) International classification	:A61K0036718000, A61K0036708000, A61K0036258000, A61K0036539000, A61K0036906800	(71) Name of Applicant : 1)Himalayan University Address of Applicant :Jullang Village, Near Central Jail, Itanagar Distt: Papumpare Arunachal Pradesh India 2)Mangalayatan University
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Feroz Ahmed Shergojri
(33) Name of priority country	:NA	2)Dr. R.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 :

The present invention provides an herbal pharmaceutical composition comprising extracts of the root of scutellaria, the rhizome of coptis, the root and rhizome of rhubarb, and the root of ginseng (or American ginseng). The herbal pharmaceutical composition is effective in treating hypertension or ischemia, protecting vascular endothelia from degeneration, and lowering blood pressure or maintaining stable blood pressure.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131009828 A

(19) INDIA

(22) Date of filing of Application :09/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A NOVEL HYBRID SOLAR PURIFIER FOR COLD AND WARM DRINKING WATER.

(51) International classification	:H01L0051000000, H01L0051420000, H02S0040440000, C02F0001000000, C02F0001420000	(71) Name of Applicant : 1)PROF.AMAR KUMAR DAS Address of Applicant :ASST. PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING, AT-CHANDANPUR, P.O-CHOUDAKULAT, DIST-KENDRAPARA,PIN-754222
(31) Priority Document No	:NA	2)DR.SRIKANTA KUMAR DASH
(32) Priority Date	:NA	3)DR.ALOK KUMAR MOHAPATRA
(33) Name of priority country	:NA	4)MR.SURAJ BISWAS
(86) International Application No	:NA	5)MR.SISIR KUMAR PANIGRAHI
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)PROF.AMAR KUMAR DAS
(61) Patent of Addition to Application	:NA	2)DR.SRIKANTA KUMAR DASH
Number	:NA	3)DR.ALOK KUMAR MOHAPATRA
Filing Date	:NA	4)MR.SURAJ BISWAS
(62) Divisional to Application Number	:NA	5)MR.SISIR KUMAR PANIGRAHI
Filing Date	:NA	

(57) Abstract :

The proposed invention attributes significantly both for sustainable power source and multifacilities in a single unit. It uses renewable energy as solar power for energy demand and integrates the triple facilities of cold, hot and normal water. It has an additional facility of power supply from grid during odd climatic conditions. The smart unit also includes biometric and GPS tracking facilities in order to enable it more secure and handy. The purified water in both hot and cold form will be available in a single unit along with normal water for both drinking and medications. It is a portable type of chiller-cum-heater reinforced with galvanized body with smart material used for water storage and insulations. The water reservoir tank with secondary storage tank is inbuilt with IoT based sensors for water leveling and temperature control. The water flow rate and temperature are maintained by means of solenoid valves and temperature sensors. Finally, this invention can provide pure drinking water both in cold and hot form promoting zero emission and energy security.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : MULTI-FIRMWARE AIDED AVIATION SYSTEM WITH 3-D MAPPING CAPABILITIES

(51) International classification	:H01Q0009040000, H04L0001000000, H04N0017000000, H04W0084120000, H04N0021436300	(71)Name of Applicant : 1)Dr. Soumya Ranjan Samal Address of Applicant :Faculty of Telecommunications, Technical University of Sofia, Bulgaria-1756 2)Er. Tarini Charana Mishra 3)Dr. Chinmaya Kumar Nayak 4)Mr. Rajnish Kumar 5)Mr. Adarsh Panda
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Soumya Ranjan Samal 2)Er. Tarini Charana Mishra 3)Dr. Chinmaya Kumar Nayak 4)Mr. Rajnish Kumar 5)Mr. Adarsh Panda
(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 this work, we have addressed an issue of reliable aviation system which can be flexible for any kind of flight controller software as well as getting digital video with the use of robust WiFi cards and proper antenna configuration for long range distance. The novelty of this work mainly focuses on designing an aviation system (drone) which is flexible with PIX-4, INAV and beta-flight firmware. Traditional aviation systems don't support all kinds of firmware which leads to increase the Capital-Expenditure (CaPex)/Operational-Expenditure (OpEx) for different purpose. In this proposed technique, a STM32F745 micro controller is used as the central processing/primary controller of the aviation system (drone) with an INVENSENSE ICM20689 gyro in SPI. Furthermore, AT7456E is used for the On-Screen-Display (OSD) for analog video in Serial Peripheral Interface (SPI), TPS54302 is used for 5V (3A) output to the peripherals like CMOS analog camera, receiver and etc. An SD card port is used for black-box data recording. For digital video systems there is an Air Pi (Raspberry zero) on the aviation system with a Camera Serial Interface (CSI) camera module, AWUS036NHA WiFi adapter for wireless video transmission, a Raspberry Pi 3 on the ground station with the same WiFi stick and a HDMI display. The video system does forward error correction and packet detection to keep the video quality at acceptable range and delivering approximate latency of 100ms. Using proper antenna configuration i.e. Omni-directional antenna at the transmitter side and patch antenna at the receiver side, the achieved results are in maximum range, ensuring better video quality at the ground station. In addition to this, the obtained feed can be processed to achieve 3-D mapped outcome.

No. of Pages : 19 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131010404 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ONLINE SIMULATION TOOL FOR TEACHING SUPPLY CHAIN MANAGEMENT

(51) International classification	:G06Q0010060000, G06Q0010080000, G06Q0050200000, G09B0025000000, G09B0019180000	(71) Name of Applicant : 1)Dr. Alok Kumar Sahai Address of Applicant :Faculty of Management Studies Sri Sri University Godi Sahi Cuttack 2)Dr. Namita Rath 3)Dr. Vishal Sood
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Alok Kumar Sahai
(33) Name of priority country	:NA	2)Dr. Namita Rath
(86) International Application No	:NA	3)Dr. Vishal 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 :

Title: Online Simulation Tool for Teaching Supply Chain Management The present invention discloses a system for supply chain management simulation in the online environment with the students connecting with the teachers and taking ordering decisions under randomly evolving business environment. COVID19 has forced online learning which is not very conducive to learn practical subjects such as supply chain management. The online simulation fills the need of a tool to enable students to visualise and experience first-hand the twin variables of lead time variability and demand variability. The students also experience the responsive supply chain management.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131010418 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD FOR MANUFACTURING CLAY BRICKS

(51) International classification	:B28B0003200000, C04B0033300000, C04B0033132000, B28B0011240000, B28B0011080000	(71) Name of Applicant : 1)Rakhi Toshniwal Address of Applicant :Probhati Apartment Flat No. L3 3rd floor Hospitalpara Vill. Jaganandapur Po. Bethuadahari PS Nakashipara Dt Nadia
(31) Priority Document No	:NA	2)Viswajeet Toshniwal
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Rakhi Toshniwal
(86) International Application No	:NA	2)Viswajeet Toshniwal
Filing 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 Manufacturing Clay Bricks This invention provides a method for manufacturing clay bricks (Element A) including the steps of :- (i) pressing mud/clay using a roller/cylinder, wherein the roller/cylinder can be driven manually or by a cart/ a vehicle (Element B), (ii) cutting the pressed mud/clay into cake like structure using cutters and to make a rectangular shaped cake by shaping the mud/clay cake using wire cutter/cutting wheel (Element C), (iii) drying the rectangular shaped mud/clay cakes under sunlight for a predefined period to remove moisture content from the mud/clay brick (Element D), (iv) firing the dried bricks by passing through a kiln/furnace at predefined temperature range (Element E) and (v) the refilling of coal in the furnace is automated/semi-automated based on the desired temperature requirement within the furnace using or not using automatic temperature monitoring system(Element E1).

No. of Pages : 47 No. of Claims : 2

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.201617026203 A

(19) INDIA

(22) Date of filing of Application :01/08/2016

(43) Publication Date : 02/04/2021

(54) Title of the invention : LINED-UP ELECTRICAL ENCLOSURE SYSTEM

(51) International classification	:H02B0001280000, H05K0007140000, H02B0001300000, H02B0001010000, B62D0025060000
(31) Priority Document No	:10 2014 101 401.4
(32) Priority Date	:05/02/2014
(33) Name of priority country	:Germany
(86) International Application No	:PCT/DE2015/100036
Filing Date	:28/01/2015
(87) International Publication No	:WO 2015/117599
(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)RITTAL GMBH & CO. KG

Address of Applicant :Auf dem St/atzelberg 35745 Herborn
Germany

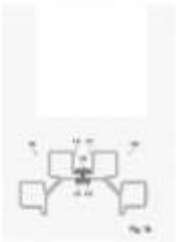
(72)Name of Inventor :

1)REUTER, Wolfgang

2)BRCK, Daniel

(57) Abstract :

The invention relates to an electrical enclosure system which is made of lined-up electrical enclosure units. Each electrical enclosure unit comprises a frame structure which is made of profiled frame parts. At least the vertical profiled frame parts have the following features: the profiled frame part (100, 100'; 200, 200'; 300, 300') is mirror symmetrical with respect to a cross-sectional diagonal (D); the profiled frame part has profiled sides (111, 112; 211, 212; 311, 312) which form the outer faces of the frame structure; profiled extensions (114, 115; 214, 215; 314, 315) extend from the profiled sides (111, 112; 211, 212; 311, 312), each profiled extension extending away from the profiled sides (111, 112; 211, 12; 311, 312); and mirror symmetrically corresponding profiled extensions (114', 115'; 214', 215'; 314', 315) of two profiled frame parts oppose each other when two frame structures are lined up, where in an intermediate space remains between the end faces of the profiled extensions, said intermediate space being closed by a seal (130; 230; 330; 510, 530, 550). The invention is characterized in that the seal (130; 230; 330) is a plug-on seal which sits on at least one of the opposing profiled extensions (114', 115'; 214', 215'; 314', 315).



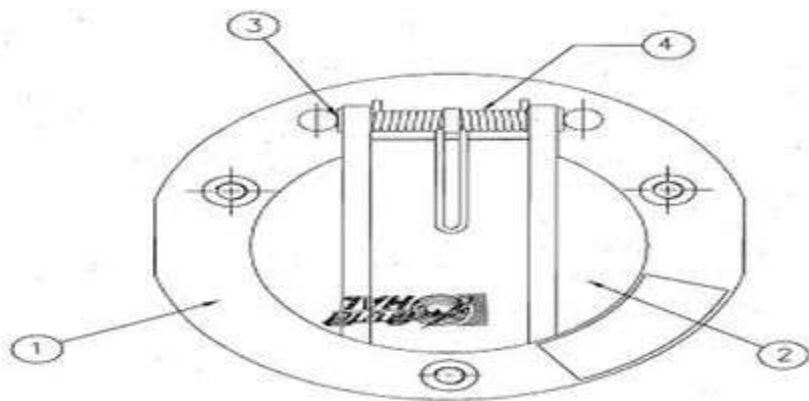
No. of Pages : 9 No. of Claims : 9

(54) Title of the invention : INWARD RELIEF VALVE (IRV) FOR CABIN PRESSURE CONTROL (CPCS) OF ENVIRONMENTAL CONTROL SYSTEM (ECS)

(51) International classification	:B64D 13/04	(71)Name of Applicant :
(31) Priority Document No	:NA	1)ASERDC, HAL LUCKNOW
(32) Priority Date	:NA	Address of Applicant :ASERDC, HAL FAIZABAD ROAD
(33) Name of priority country	:NA	LUCKNOW UTTAR PRADESH-226016, INDIA Uttar Pradesh
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)SHIB SHANKAR RAKSHIT
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The Inward Relief Valve (IRV) is designed and developed for use on Cabin Pressure Control System (CPCS) of Environmental Control System (ECS) of an aircraft. The CPCS maintains the cockpit/cabin pressure at a safe level while allowing the aircraft to fly at any altitude. Cabin Pressure Control System maintains the cabin pressure by regulating the outflow of cold air fed into the cabin/cockpit from Cold Air Unit. In CPCS system, the negative pressure relief is ensured by an Inward Relief Valve (IRV). It limits the negative pressure inside cabin relative to outside pressure during rapid descent of aircraft i.e. when the ambient pressure becomes higher than cabin pressure the valve flap opens to limit the negative pressure.



INWARD RELIEF VALVE (IRV)
FIGURE-A

No. of Pages : 5 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911038839 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : DEVELOPMENT OF POROUS ALUMINA FILM ON CONDUCTING GLASS SUBSTRATE TO ENHANCE THE VOLTAGE OF SILICON BASED THERMOPHOTOVOLTAIC DEVICES

(51) International classification	:H01L0021677000, H01L0031180000, B82Y0020000000, H01L0031055000, C01B0033037000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE Address of Applicant :ROORKEE UTTARAKHAND- 247667, INDIA Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DR. SIL ANJAN
(33) Name of priority country	:NA	2)DR. GHOSH SOUMYA SHANKAR
(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 invention provide development of porous alumina film deposited over conducting surface on glass substrate for thermophotovoltaic application which sets like photonic crystal capable of increasing output voltage of silicon solar cell. The film pore size is in 200-400nm, which matches with design wavelength. The porous alumina layer is insulating to heat and electricity. The porous alumina film following design pattern can form photonic crystal. The preferred wavelength of emitted light is about around λ_{im} , which is the effective band gap energy of silicon semiconductors. Such films have the capability to increase output voltage of silicon solar panel once designed.

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911038845 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR APPLYING GLUE FOR STICKING INDICES

(51) International classification	:C08G0018610000, B25B0013480000, C12N0015010000, G06F0016532000, F16K0031040000	(71) Name of Applicant : 1)KDDL LIMITED Address of Applicant :KAMLA CENTRE, SCO 88-89, SECTOR-8, MADHYA MARG, CHANDIGARH-160018, INDIA Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MR. ANIL SHARMA
(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 system and method for applying glue for sticking indices. A user friendly and customized tool has been developed which makes the process easy.

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : SECURITY SYSTEM AND METHOD OF TRANSMITTING DISTRESS SIGNAL

(51) International classification :H04W0004700000,
G06Q0030060000,
G09G0005140000,
H04W0004021000,
G08B0025140000

(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)BHAKAT, Sanjiv
Address of Applicant :S Bhakat S 110, Greater Kailash 2,
New Delhi 110048, INDIA Delhi India
2)Herdum Systems Private Limited

(72)**Name of Inventor :**
1)BHAKAT, Sanjiv

(57) Abstract :

A method of transmitting a distress signal is disclosed. The method includes receiving a distress signal triggered by a device A (20) at an application server (10) by a security system (50) along with location of the device A (20). Subsequently, the method involves identifying at least one device B (30) present within a predefined distance from the device A (20) by the security system (50). A notification is then transmitted to the at least one device B (30). The notification includes type of distress and distance of the device A (20) from the at least one device B (30). Further, an acknowledgement is received from the at least one device B (30) at the application server (10) by the security system (50). Lastly, the location of the device A (20) is transmitted to the at least one device B (30).



No. of Pages : 27 No. of Claims : 8

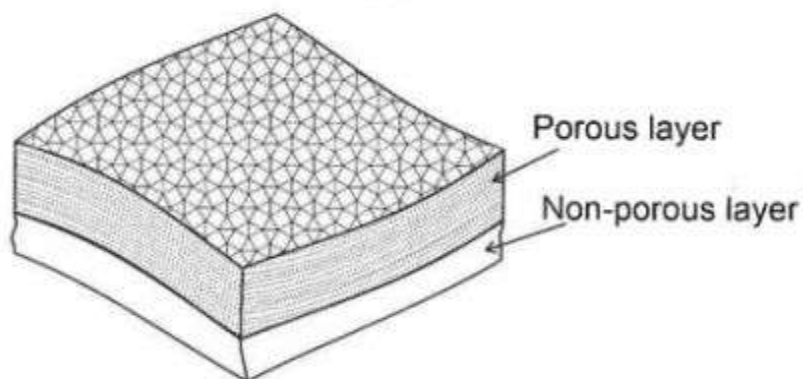
(54) Title of the invention : ACELLULAR ARTIFICIAL SKIN SUBSTITUTE AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61L0027600000, A61L0027380000, A61L0027560000, A61K0009000000, A61K0047340000	(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 :
(32) Priority Date	:NA	1)VEENA KOUL
(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 acellular artificial skin substitute or scaffolds comprising biopolymer and bioactive components and the process of preparing said artificial skin substitute. The novel artificial foam-based skin substitute scaffold of the present invention addresses the problems in the prior art by providing a biocompatible, biodegradable, Non-immunogenic, non-irritant and a cost-effective scaffold.

Figure 1



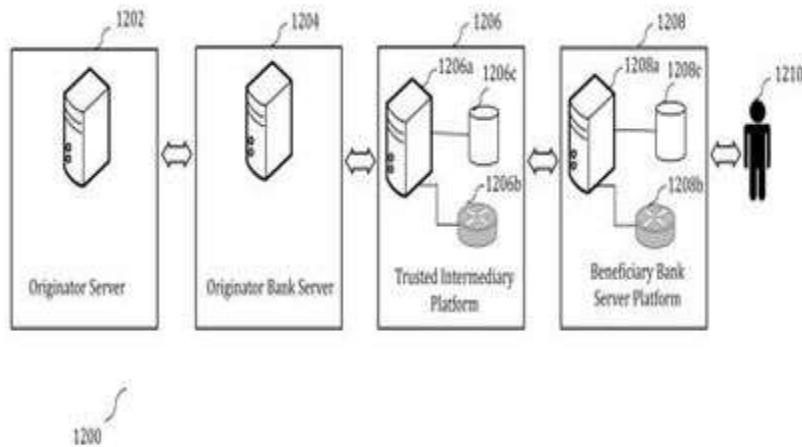
No. of Pages : 52 No. of Claims : 19

(54) Title of the invention : METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR OPTIMIZING ELECTRONIC DIRECT BENEFIT TRANSFERS

(51) International classification	:G06Q0020100000, G06Q0040020000, G06Q0020020000, G06Q0020000000, G06Q0020220000	(71)Name of Applicant : 1)MASTERCARD INTERNATIONAL INCORPORATED Address of Applicant :2000 PURCHASE STREET, PURCHASE, NY 10577, UNITED STATES OF AMERICA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)CHADHA, Neha
(33) Name of priority country	:NA	2)SINGH, Gagandeep
(86) International Application No	:NA	3)MOITRA, Arnab
Filing Date	:NA	4)STRAIN, John
(87) International Publication No	: NA	5)BAKER, Paul
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides methods, systems and computer program products that enable optimized direct benefit transfers from an originator to a beneficiary. Implementation of a direct benefit transfer involves receiving from an originator bank server a user identifier uniquely associated with the beneficiary, and direct benefit transfer payment amount. The user identifier is used to retrieve a payment account identifier associated with the beneficiary. The retrieved identifiers are used to route the payment account identifier and the transaction amount information to a beneficiary bank server that is identified. The beneficiary bank server responds to credit of the disbursement amount, by crediting the payment account associated with the beneficiary.



No. of Pages : 62 No. of Claims : 13

(54) Title of the invention : METHOD AND SYSTEM FOR ACCESS-CONTROL IN STORAGE DEVICES

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0021620000, H04N0007167000, G11B0020000000, G06F0021600000, H04N0021835500</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(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 Republic of Korea</p> <p>(72)Name of Inventor : 1)MONDAL, Bappa 2)JAIN, Aman 3)PANDA, Rajesh Kumar</p>
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(57) Abstract :

The present subject matter refers to method and system (200, 1300) of controlling access to the data stored in memory. The method comprises ascertaining a category of one or more files in a memory device. As a part of creating an access-control with respect to one or more categorized files, a key-length is determined. The categorized file is encrypted in accordance with the determined key-length for enabling a controlled-access of the files from the memory-device.

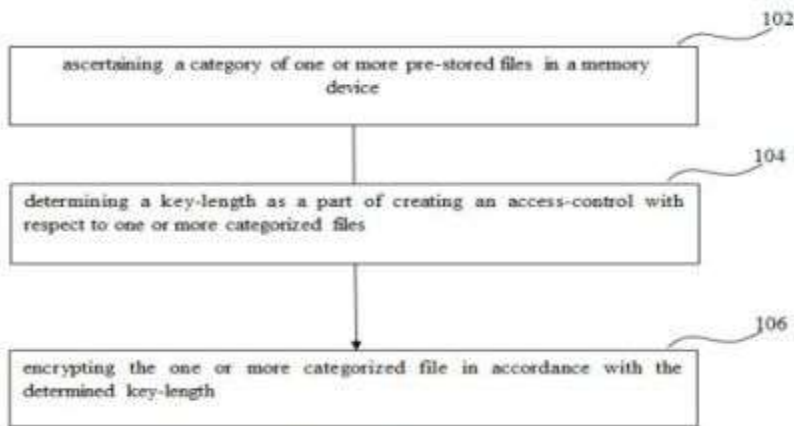


Figure 1

No. of Pages : 41 No. of Claims : 13

(54) Title of the invention : HYDRAULIC OIL CLEANING AND MOISTURE REMOVAL SYSTEM

(51) International classification :B01D0017020000,
G01J0003440000,
C02F0001440000,
F15B0021041000,
C02F0009000000

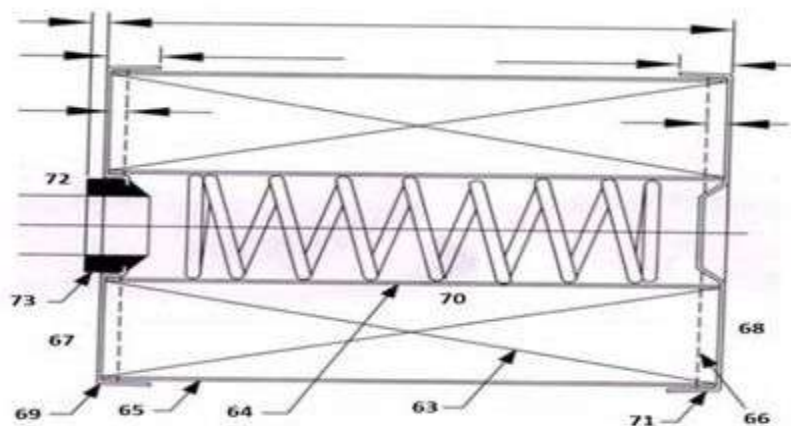
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Manjit Kumar Prabhakar
Address of Applicant :H.No. 901 Sector -2 ,Panchkula -
134109, Haryana, India Haryana India

(72)Name of Inventor :
1)Manjit Kumar Prabhakar

(57) Abstract :

Hydraulic oil cleaning and moisture removal system comprises plurality of filtration units (1 - 3). Provided to facilitate cleaning and water removal from the hydraulic oil to national aerospace standard (NAS - 1) level. Each unit comprises a storage tank 4 having a set of filters (5 - 9, 33 - 37, 40 - 44 or 51 - 55) of different capacity for facilitating filtration of the hydraulic oil to NAS - 8, NAS - 3 and finally NAS - 1 level, respectively. Gear pumps (10 - 12, 28 & 32 and 48 - 57) and valves (13 - 15, 27 & 31, and 46 & 56) are provided between the storage tank and set of filters to facilitate supply of the contaminated hydraulic oil to the set of filters in batches. The output of the set of filters of unit 1 being connected to the storage tank 4 of unit 1. The output of the set of filters of unit 2 being connected to the storage tank 4 of unit 2 and output of the set of filters of unit 3 being connected to the storage tank 4 provided to store filtered and cleaned oil to be supplied to the equipment.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039016 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PROCESS FOR THE PRODUCTION OF ECO-FRIENDLY AROMATIC HERBAL GREEN COLOUR AND HERBAL GREEN COLOUR THEREOF

(51) International classification	:A61K0036610000, A01N0065000000, C11D0003382000, A23F0003340000, A61K0036752000	(71) Name of Applicant : 1)Shoolini University of Biotechnology and Management Sciences Address of Applicant :Village-Bhajol, P.O. Sultanpur, Solan, 173229, Himachal Pradesh, India Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Singh, Sarvjeet
(33) Name of priority country	:NA	2)Raina, Ravinder
(86) International Application No	:NA	3)Puri, Richa
Filing 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 preparation of green non-toxic aromatic herbal eco-friendly colour from plant materials wherein pigment source is *Spinacia oleracea* Linn and green non-toxic aromatic herbal eco-friendly colour thereof. The invention provides an inexpensive, allergy free, skin friendly, pure herbal colour to overcome the various health issues and skin problem associated with synthetic colours. The herbal colour from plant material is prepared from the leaves of the plant *Spinacia oleracea* Linn which is the pigment source, roots of Arrowroot which is a base material source, and leaves of *Melaleuca bracteata* F. Muller (Black tea tree) and *Citrus sinensis* L. Osbeck, are sources of essential oils to impart fragrance to the herbal colour.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039020 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PROCESS FOR THE PRODUCTION OF ECO-FRIENDLY AROMATIC HERBAL PINK COLOUR AND HERBAL PINK COLOUR THEREOF

(51) International classification :A61K0036610000,
A61K0036752000,
A01N0065000000,
C11D0003382000,
A23F0003340000

(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)Shoolini University of Biotechnology and Management Sciences
Address of Applicant :Village-Bhajol, P.O. Sultanpur, Solan, 173229, Himachal Pradesh, India Himachal Pradesh India

(72)**Name of Inventor :**
1)Singh, Sarvjeet
2)Raina, Ravinder
3)Puri, Richa

(57) Abstract :

The present invention relates to a process of preparation of pink non-toxic aromatic herbal eco-friendly colour from plant materials wherein pigment source is Beta vulgaris Linn and pink non-toxic aromatic herbal eco-friendly colour thereof. The invention provides an inexpensive, allergy free, skin friendly, pure herbal colour to overcome the various health issues and skin problem associated with synthetic colours. The herbal colour from plant material is prepared from the roots of the plant Beta vulgaris Linn which is the pigment source, roots of Arrowroot which is a base material source, and leaves of Melaleuca bracteata F. Muller (Black tea tree) and Citrus sinensis L. Osbeck, are sources of essential oils to impart fragrance to the herbal colour.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039021 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PROCESS FOR THE PRODUCTION OF ECO-FRIENDLY AROMATIC HERBAL YELLOW COLOUR AND HERBAL YELLOW COLOUR THEREOF

(51) International classification	:A61K0036906600, A61K0036610000, A01N0065000000, A61K0036752000, C11D0003382000	(71) Name of Applicant : 1)Shoolini University of Biotechnology and Management Sciences Address of Applicant :Village-Bhajol, P.O. Sultanpur, Solan, 173229, Himachal Pradesh, India Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Singh, Sarvjeet
(33) Name of priority country	:NA	2)Raina, Ravinder
(86) International Application No	:NA	3)Puri, Richa
Filing 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 preparation of yellow non-toxic aromatic herbal eco-friendly colour from plant materials wherein pigment source is Curcuma long Linn and yellow non-toxic aromatic herbal eco-friendly colour thereof. The invention provides an inexpensive, allergy free, skin friendly, pure herbal colour to overcome the various health issues and skin problem associated with synthetic colours. The herbal colour from plant material is prepared from the tubers of the plant Curcuma long Linn which is the pigment source, roots of Arrowroot which is a base material source, and leaves of Melaleuca bracteata F. Muller (Black tea tree) and Citrus sinensis L. Osbeck, are sources of essential oils to impart fragrance to the herbal colour.



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

(54) Title of the invention : MOTION CONTROL OF OUTSIDE REAR VIEW MIRROR

(51) International classification :A61B0001000000,
B25F0005000000,
H01H0003260000,
H02H0007085000,
H02J0007000000

(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)MOTHERSON SUMI SYSTEMS LIMITED
Address of Applicant :2nd Floor, F-7, Block B-1, Mohan
Cooperative Industrial Estate, Mathura Road, New Delhi 110044,
India Delhi India

(72)Name of Inventor :
1)DUBE, Amit
2)BATRA, Monika

(57) Abstract :

A control circuit (100) for controlling motion of an Outside Rear View Mirror (ORVM) of a vehicle is described. The control circuit (100) includes a switching circuit (102), a cut off circuit (104), and a latching circuit (106). The switching circuit (102) includes a first metal oxide semiconductor field effect transistor (MOSFET) (108) to provide current to a motor (116) for rotation of the motor (116) in first direction and a second MOSFET (110) for rotation of the motor in second direction, in response to a power switch (202) being actuated by a user. Thus, the ORVM is moved in a first viewing direction by switching on the first MOSFET (108) and in a second viewing direction by switching on the second MOSFET (110). The latching circuit (106) maintains state of the motor (116) and the cut-off circuit (104) protects the motor (116) during overcurrent.

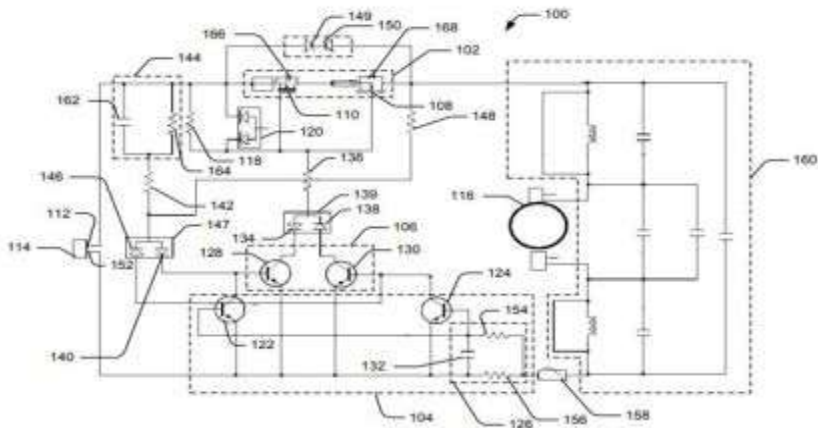


Fig. 1

No. of Pages : 25 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039078 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : VERTICAL ROTARY GARDEN SYSTEM

(51) International classification	:A01G0009020000, H04N0005378000, H01H0067160000, A47C0009020000, H05K0001180000	(71) Name of Applicant : 1)BHUPINDER SINGH Address of Applicant :191, SECTOR-28 NOIDA U.P-201301, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)BHUPINDER 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 :

VERTICAL ROTARY GARDEN is a simplrfication of a any requirement to do Gardening and Farming, vertically, with least horizontal space requirements. Moreover the pots will move up and down, making it most comfortable to manage gardening and fanning, from any one position.

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

(54) Title of the invention : METHOD AND SYSTEM FOR OBJECT RECOGNITION AND TRACKING

(51) International classification :G06K0009000000,
G06K0009460000,
G06K0009320000,
G01S0013700000,
G01S0017930000

(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)HERO ELECTRONIX PRIVATE LIMITED
Address of Applicant :503, RECTANGLE 1, D4 SAKET
DISTRICT CENTRE, NEW DELHI 110017, INDIA (IN) Delhi
India

(72)Name of Inventor :
1)CHERUVATHOOR, Anup Anil
2)DIXIT, Anurag
3)JOSHI, Gaurav

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR OBJECT RECOGNITION AND TRACKING Provided is a system (101) for object recognition and tracking, the system (101) comprising a memory (219) configured to store computer-executable instructions and one or more processors (201) configured to execute the instructions to obtain a unique object identifier (ID) associated with an object, wherein the unique object ID includes information of a face of the object. The one or more processors (201) in the system (101) further identify the object based on the unique object ID. The one or more processors (201) further track the identified object, across a first field of view (FOV) of a first image capturing device to a second FOV of a second image capturing device, based on the unique object ID.

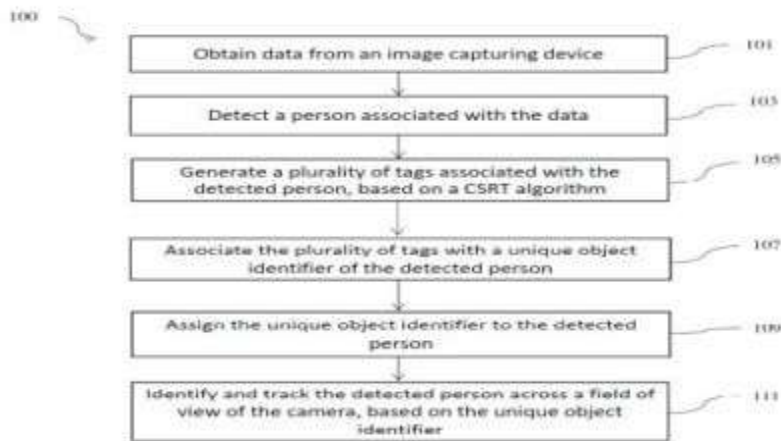


FIG. 1

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

(54) Title of the invention : FRAME ASSEMBLY OF VEHICLE

(51) International classification	:H01M0010655700, A61M0005140000, B62K0019400000, B66C0001620000, B62D0021180000	(71) Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :34, Community Center, Basant Lok, Vasant Vihar, New Delhi Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DUBEY, Shubham
(33) Name of priority country	:NA	2)MISHRA, Abhishek
(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 one aspect of the present invention, a frame assembly (130) of a vehicle (100). The frame assembly (130) comprising: a head tube (132); a down tube (134); a first side tube (146) connected to the down tube (134); a second side tube (148) connected to the down tube (134), and a support member (200). The support member (200) comprises a first arm (202) connected to one of the first side tube (146) and the second side tube (148), a second arm (204) connected to a bracket (180) on one of the first side tube (146) and the second side tube (148), a third arm (206) connecting the first arm (202) and the second arm (204), and a plate member (210). The plate member (210) is adapted to carry inscriptions of vehicle identification information.

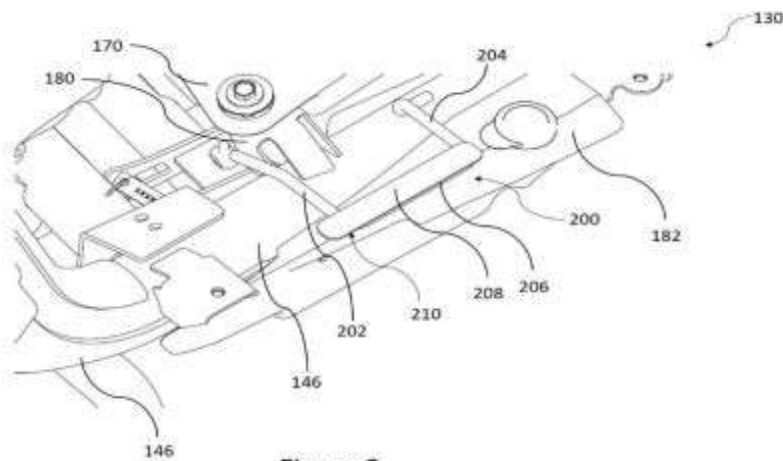


Figure 3

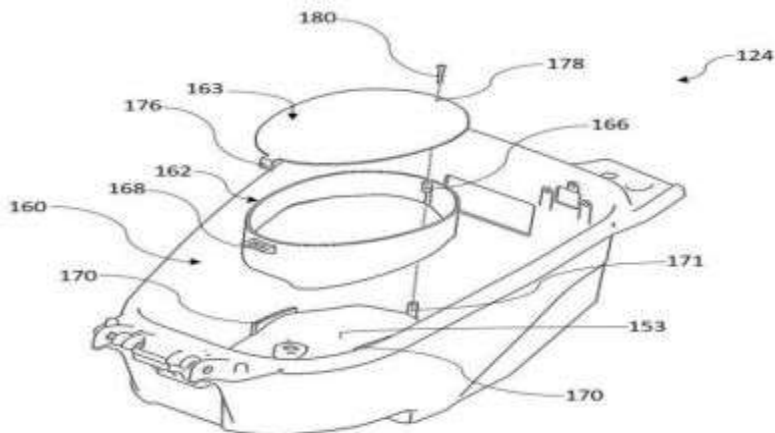
No. of Pages : 27 No. of Claims : 13

(54) Title of the invention : STORAGE BOX OF VEHICLE

(51) International classification	:B62K0019460000, B65D0081220000, B60Q0003300000, B62K0011100000, F01N0003200000	(71) Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :34, Community Center, Basant Lok, Vasant Vihar, New Delhi Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Avinash
(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 storage box (124) of a vehicle (100) for storing a helmet (159) having an opening (161) is provided. The storage box (124) comprises a storage box wall (150) and abase wall (151). The storage box (124) also comprises a storage area (158) defined by the storage box wall (150) and the base wall (151). The storage box (124) further comprises a secondary storage box (160) disposed within the storage area (158). The secondary storage box (160) comprises a secondary storage wall (162). At least portion of the secondary storage wall (162) extends into the opening (161) in storage position of the helmet (159).



No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND A METHOD FOR FAILSAFE OF TRACTION BATTERY PACK IN CASE OF PASSIVE PROTECTION DEVICE FAILURE

(51) International classification	:B60L0003000000, H01M0002100000, H01M0002340000, B60K0001040000, H01M0010420000	(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)ABHILASH CHOUDHARY
(33) Name of priority country	:NA	2)PRASHANT TULI
(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 system and a method for stopping unwanted flow of high voltage from a traction battery pack (200) during emergency condition of an electric vehicle. The present system provides a safety relay (204) in between a plurality of battery modules to connect and disconnect the high voltage path of the traction battery pack. The safety relay (204) is controlled by a master BMS (201) which is operated on a low voltage. In emergency shutdown condition, the safety relay (204) operates to close a normally opened switch (209) provided in between the plurality of battery modules to break the high voltage path of the traction battery pack (200).

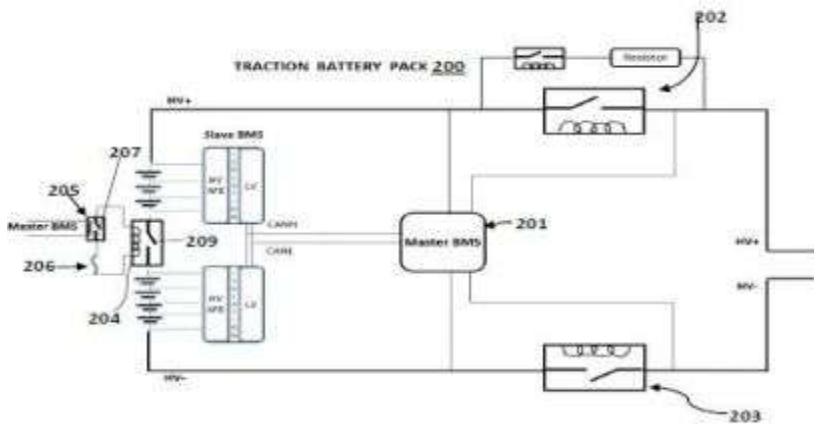


Fig. 2

No. of Pages : 24 No. of Claims : 6

(54) Title of the invention : SYSTEM AND METHOD FOR OBSTRUCTION DETECTION IN A FIELD OF VIEW (FOV) OF A CAMERA

(51) International classification :H04N0007180000,
H04N0005232000,
G01S0017420000,
G01S0017930000,
G01S0013930000

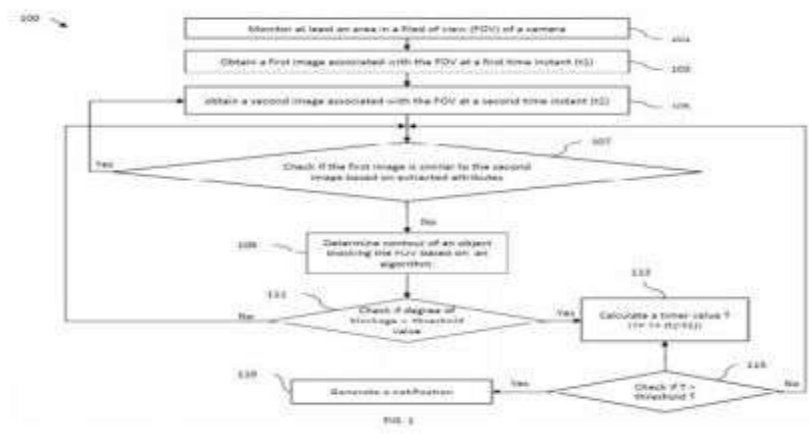
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HERO ELECTRONIX PRIVATE LIMITED
Address of Applicant :503, RECTANGLE 1, D4 SAKET
DISTRICT CENTRE, NEW DELHI 110017, INDIA (IN) Delhi
India

(72)Name of Inventor :
1)CHERUVATHOOR, Anup Anil
2)DIXIT, Anurag
3)JOSHI, Gaurav
4)DUTTA, Sweta Subhra

(57) Abstract :

SYSTEM AND METHOD FOR OBSTRUCTION DETECTION IN A FIELD OF VIEW (FOV) OF A CAMERA Provided is a system (101) for obstruction detection in a field of view (FOV) of a camera, the system (101) comprising a memory (213) configured to store computer-executable instructions and one or more processors (201) configured to execute the instructions to acquire a plurality of images of the FOV of the camera, wherein the plurality of images includes a first image and a second image. The one or more processors (201) in the system (101) further compare the first image with the second image and determine an obstruction object in the FOV of the camera based on the comparison. The one or more processors (201) further determine a contour of the obstruction object, determine a degree of blockage of the FOV of the camera based on the contour of the obstruction object and generate a notification based on the degree of blockage of the FOV of the camera. << To be published with FIG. 2>>



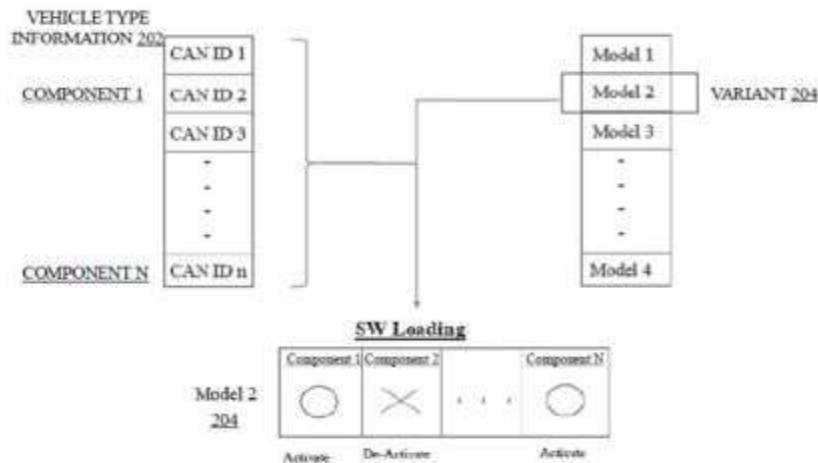
No. of Pages : 34 No. of Claims : 8

(54) Title of the invention : VEHICLE INFOTAINMENT PROCESSING SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number:</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0008610000, G07C0005080000, G08G0001160000, G07C0005000000, B60K0035000000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, Delhi India</p> <p>(72)Name of Inventor : 1)TARUN AGGARWAL 2)SATISH KUMAR PANDEY 3)SURENDER SINGH RAGHUWANSHI 4)SATISH PANDEY 5)N SOUNDHARYA 6)SHASHI KANT ROY 7)PANKAJ KUMAR BHARTI 8)VARAGANTI SAICHARAN SRIHARSHA</p>
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(57) Abstract :

Described herein is a vehicle infotainment processing system (100). The system (100) includes a vehicle communication network controller (112) which receives vehicle network identification tags over a vehicle communication network for the computational components implemented in the vehicle; and an HMI application installation supervisor (114) which determines HMI applications stored in a non-transitory storage device (106) based on the received vehicle network identification tags; retrieves the determined HMI applications from the non-transitory storage device (106); and installs the determined HMI applications to the vehicle infotainment system (400) for the computational components implemented in the vehicle.



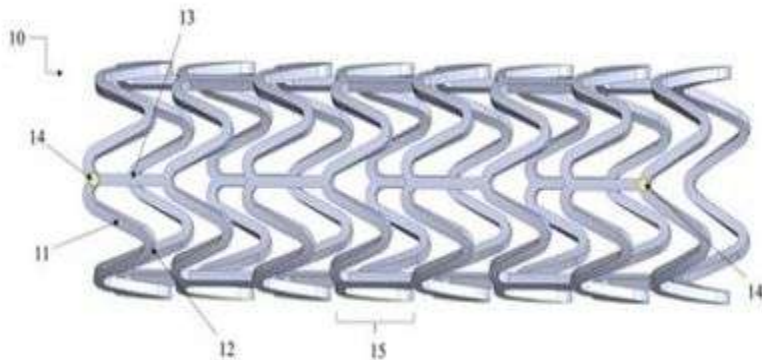
No. of Pages : 28 No. of Claims : 12

(54) Title of the invention : A BIORESORBABLE RADIOPAQUE STENT AND A METHOD FOR PREPARATION THEREOF

(51) International classification	:A61F0002915000, A61F0002910000, A61F0002954000, A61F0002820000, A61K0031337000	(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 :
(32) Priority Date	:NA	1)Naresh Bhatnagar
(33) Name of priority country	:NA	2)Alok Srivastava
(86) International Application No	:NA	3)Shweta 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 :

The present invention relates to a stent comprising a bioresorbable radiopaque material comprising magnesium-zinc-yttrium alloy, wherein magnesium is present in an amount of up to 90% w/w, zinc is present in an amount of from 10 to 40% w/w, yttrium is present in an amount of up to 10% w/w of the bioresorbable radiopaque material and a polymer. Further, a method for preparing a stent comprising mixing a bioresorbable radiopaque material with a polymer to form a composite tube and cutting the composite tube to form the stent is also provided.



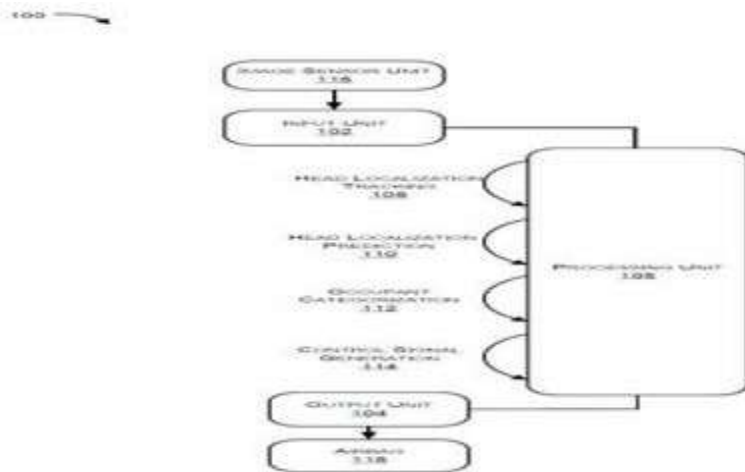
No. of Pages : 29 No. of Claims : 15

(54) Title of the invention : SYSTEM AND METHOD FOR DEPLOYMENT OF AIRBAG BASED ON HEAD POSE ESTIMATION

(51) International classification	:G06K0009000000, G06N0003040000, G06T0007700000, G08G0001160000, H04N0007180000	(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)Mr. Sai Kumar Dwivedi
(33) Name of priority country	:NA	2)Mr. Hisham Cholakkal
(86) International Application No	:NA	3)Mr. Vikram Gupta
Filing Date	:NA	4)Mr. Shuaib Ahmed
(87) International Publication No	: NA	5)Mr. Sanath Narayan
(61) Patent of Addition to Application Number	:NA	6)Mr. Arjun Jain
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An intelligent airbag deployment control system 100 implemented in a vehicle is disclosed. An input unit 102 receives input images of an occupant in a vehicle from an image sensor unit 116. A processing unit 104 processes the images to determine and track head localization information based on amplitude and depth parameter of the image. Further, the head localization information is predicted to determine future position and orientation of the passengers head. The future head localization information is predicted by processing the determined head localization information using Long Short Term Memory (LSTM) neural network architecture. The processing unit 104 generates a control signal to indicate direction of removal of flap of an airbag 118 and amount of pressure in the airbag 118, while deployment of the airbag 118.



No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : A METHOD FOR ASSEMBLING A LAY SHAFT OF A GEARBOX ASSEMBLY AND A WORKTABLE THEREOF

(51) International classification :F16D0001080000,
B25H0001000000,
B23Q0003080000,
C12N0015660000,
B65H0029620000

(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)MAHINDRA AND MAHINDRA LIMITED

Address of Applicant :Farm Equipment Sector, Swaraj
Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali)-
160055, Punjab, India Punjab India

(72)Name of Inventor :

1)SINGH, Baljinder

2)BANSAL, Saurabh

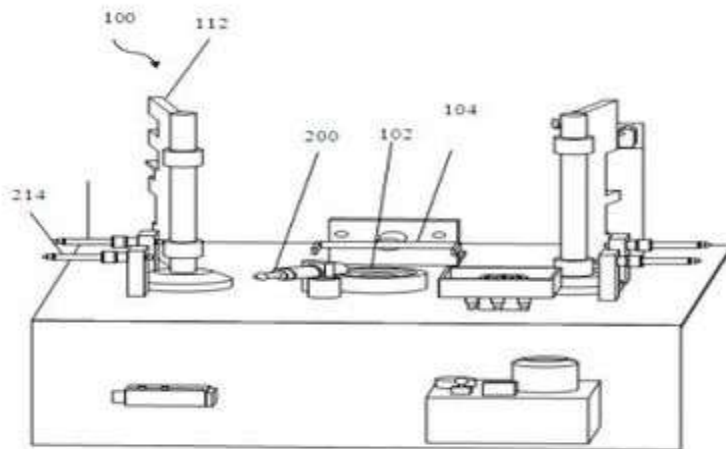
3)ATWAL, Sony

4)BANSAL, Ram Kumar

5)GUPTA, Pankaj

(57) Abstract :

The present disclosure relates to fixtures for gearbox and envisages a method and a worktable (100) for assembling a lay shaft (10) of a gearbox. The worktable (100) comprises a base fixture (102) for mounting the lay shaft (10), a clamping unit (106) and a defect detection module. The defect detection module comprises a profile plate (112) matching contour of the shaft (10) assembly and sensors for detection of (a) mounting of the shaft on the base fixture (102) and (b) displacement of the profile plate (112) for confirming correctness of order and orientation of the components assembled on the shaft (10). By preventing declamping of the shaft in the absence of one of the sensor outputs, the worktable eliminates human error and enables precise assembly of components on the shaft.



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

(54) Title of the invention : A METHOD FOR ASSEMBLING AN INTERMEDIATE SHAFT OF A GEARBOX AND A WORKTABLE THEREOF

(51) International classification	:F16D0001080000, B23P0019040000, B25H0001000000, C12N0015660000, B65H0029620000	(71)Name of Applicant : 1)MAHINDRA AND MAHINDRA LIMITED Address of Applicant :Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali)- 160055, Punjab, India Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Baljinder
(33) Name of priority country	:NA	2)BANSAL, Saurabh
(86) International Application No	:NA	3)ATWAL, Sony
Filing Date	:NA	4)BANSAL, Ram Kumar
(87) International Publication No	: NA	5)GUPTA, Pankaj
(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 fixtures for gearbox and envisages a method and a worktable (100) for assembling an intermediate shaft (12) of a gearbox. The worktable (100) comprises a base fixture (102) for mounting the shaft (12), a clamping unit (106), an oiling unit (108) for intermediate oiling, and a defect detection module. The defect detection module comprises a profile plate (114) matching contour of the shaft (12) assembly, gauges (120), and sensors for detection of (a) mounting of the shaft on the base fixture, (b) handling of the oiling unit (108), (c) handling of the gauges (120) and (d) displacement of the profile plate (114) for confirming correct order and orientation of components assembled on the shaft (12). By preventing declamping of the shaft in the absence of one of the sensor outputs, the worktable eliminates human error and enables precise assembly of components on the shaft.

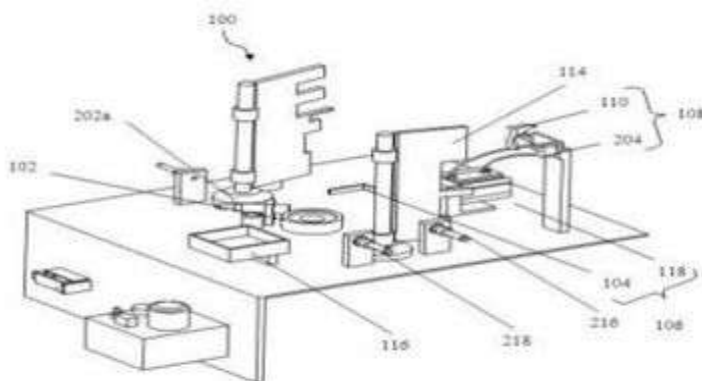


Figure 2

No. of Pages : 25 No. of Claims : 8

(54) Title of the invention : LEARNING ALARM AND PM THRESHOLD VALUES IN NETWORK ELEMENTS BASED ON ACTUAL OPERATING CONDITIONS

(51) International classification :A61B0005000000,
A61B0006000000,
G01R0031340000,
H04B0017318000,
H04W0024020000

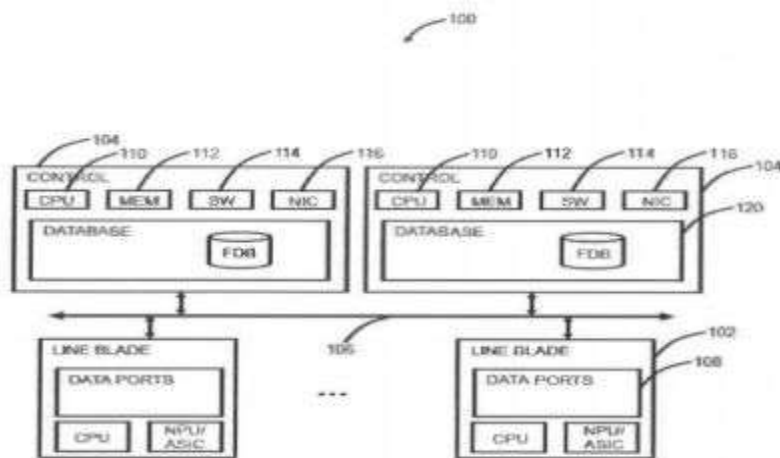
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Ciena Corporation
Address of Applicant :7035 Ridge Road, Hanover, Maryland
21076, United States of America Haryana India

(72)**Name of Inventor :**
1)Aggarwal Amit
2)Sekhri Rahul

(57) Abstract :

Systems and methods include obtaining measured data associated with one or more parameters associated with operation of a network element 100, 200 in a network, wherein the measured data is over a learning window 600; analyzing the measured data to statistically determine thresholds 602 for the one or more parameters; and configuring the network element 100, 200 with the determined thresholds 602 for the one or more parameters, wherein the network element 100,200 is configured to compare ongoing measurements of the one or more parameters with the determined thresholds 602, and to use any threshold crossings for any of alarming and actions on the network element The systems and methods can include, subsequent to a predetermined time period after the configuring, recalibrating the thresholds for the one or more parameters based on updated measured data and reconfiguring the network element with the recalibrated thresholds for the one or more parameters.



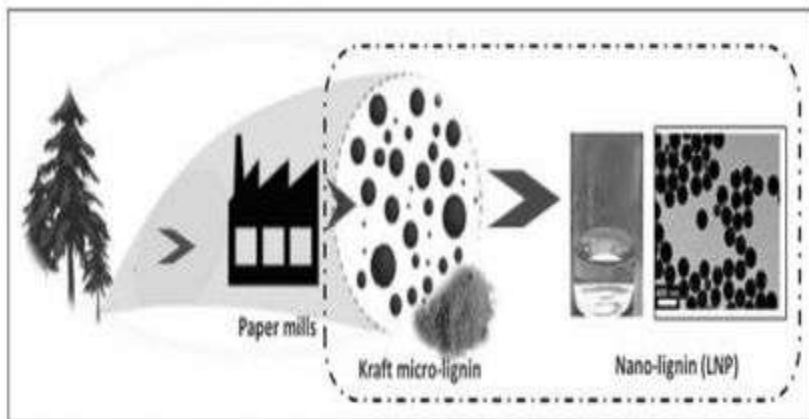
No. of Pages : 33 No. of Claims : 10

(54) Title of the invention : GREEN MANUFACTURING PROCESS OF NANOLIGNIN

(51) International classification	:A61K0009160000, B01J0003000000, B01D0011020000, C02F0011080000, E21B0043160000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :HAUZ KHAS-110 016, DELHI Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PROF. ANUP KUMAR GHOSH
(33) Name of priority country	:NA	2)SABAPATHY SANKARPANDI
(86) International Application No	:NA	3)AJIT BABARAO BHAGAT
Filing Date	:NA	4)AKANKSHA PATEL
(87) 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 and claims a process of preparation of nanolignin from a substrate, said substrate is either the kraft micro-lignin from industrial waste or the lignocellulosic bioresources comprising the steps of treating the substrate with sub-critical water and SC-CO₂ at a high pressure and temperature conditions (120 bar/ 170° C) for 30 min; loading of the substrate consisting micro-lignin in a high-pressure vessel; applying a definite pressure and temperature to bring the water and CO₂ to subcritical and supercritical states respectively; collecting spherical nanolignin in water through dissolution and nanoprecipitation of micro-lignin; and drying the obtained product in a vacuum oven at 80° C for 12 hours; characterized in that under high CO₂ pressure conditions, water attains subcritical state and acts as a solvent for lignin whereas, CO₂ exist in supercritical state acts as non-solvent for lignin, wherein the mixture of solvents and anti-solvents is formed in-situ in the reactor chamber.



No. of Pages : 25 No. of Claims : 5

(54) Title of the invention : A SYSTEM AND METHOD FOR INTELLIGENT TRADING

(51) International classification	:G06Q0030060000, G06Q0040040000, G06Q0030020000, G01S0019190000, G06Q0040000000	(71) Name of Applicant : 1)NOVA BIG DATA ANALYTICS PRIVATE LIMITED Address of Applicant :11TH FLOOR, 1102, AGARWAL CORPORATE HEIGHTS, NETAJI SUBHASH PLACE, PITAMPURA, North West Delhi, Delhi, 110034 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anuj Khare
(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 (100) and method for intelligent trading. The system (100) includes a system server computer(102) and a user server computer(108). The system server computer(102) is connected to internet. The system server computer(102) further includes a user module(114), a system database unit(104) and a system processing unit(106).The user server computer(108) is connected to the user module(114) of the system server computer(102) through internet. The user server computer(108) includes a user interface(116), a user database unit(HO) and a user processing unit(112). The system processing unit(106) executes computer readable instructions and utilizes the analysis done through sentiment analysis, elastic band theory, the price to earnings ratio and historical analysis to determine the decision of selling and buying stock.

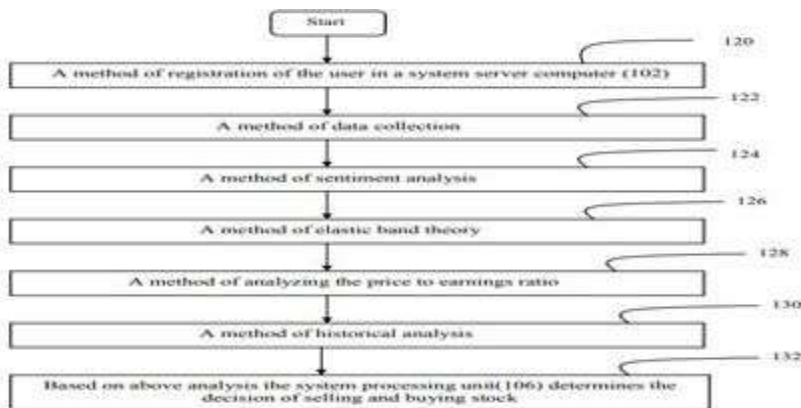


Fig. 2

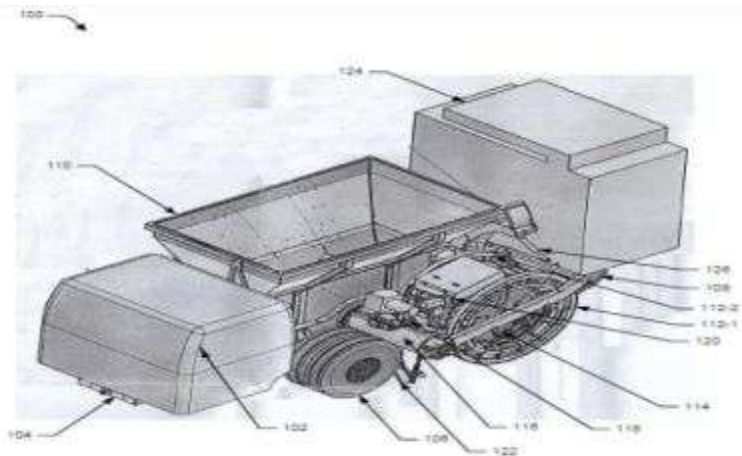
No. of Pages : 27 No. of Claims : 8

(54) Title of the invention : MOBILE BRICK MAKING MACHINE

(51) International classification	:G05B0019409700, B30B0011200000, B62D0021180000, B28B0005080000, B30B0011160000	(71) Name of Applicant : 1)SNPC Machines Private Limited Address of Applicant :VPO Ladrawan, Distt Jhajjar, Tehsil Bahadurgarh 124507, Haryana, India. Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SATISH KUMAR
(33) Name of priority country	:NA	2)VILAS CHHIKARA
(86) International Application No	:NA	3)JAGPRAVESH
Filing 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 mobile brick-making machine is disclosed, comprising a cabin for an operator of the machine to sit and operate the machine, the cabin having various controls and sensors for the operator to drive the machine and control brick making operation; a pair of steered front wheels and a pair of non-steered rear wheels mounted on a chassis through their respective axles; a raw material stock compartment to hold raw material for making bricks; and a roller ring and die assembly, which includes a pair of roller rings; and a die made up of a plurality of circumferentially arranged brick frames, the plurality of circumferentially arranged brick frames concentrically fixed between the pair of roller rings. The raw material stored in the raw material stock compartment is moved to the brick frames of die using a main worm arranged in a transverse direction at bottom of the raw material stock compartment.



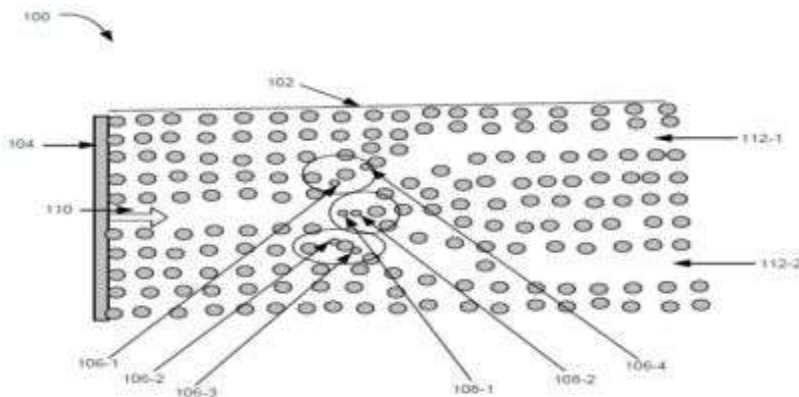
No. of Pages : 27 No. of Claims : 13

(54) Title of the invention : AN ULTRA-COMPACT POWER SPLITTER

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H03H0007480000, H04J0014040000, H01F0019040000, H04B0010250000, H03F0001560000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India</p> <p>(72)Name of Inventor : 1)JINDAL, Poonam 2)KAUR, Harsimran Jit</p>
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(57) Abstract :

The present disclosure provides an opto-electronic integrated circuit. The integrated circuit can include a power splitter having an input port and one or more output ports; an input source configured to generate a first set of optical signals to the power splitter via the input port; a first set of defect rods introduced on bends, located on both sides of the power splitter, to reduce backward reflections; and a second set of defect rods placed at a junction of the power splitter, the second set of defect rods can be configured to suppress bending losses, resonate the first set of optical signals across the one or more output ports and transfer maximum power to the one or more output ports.



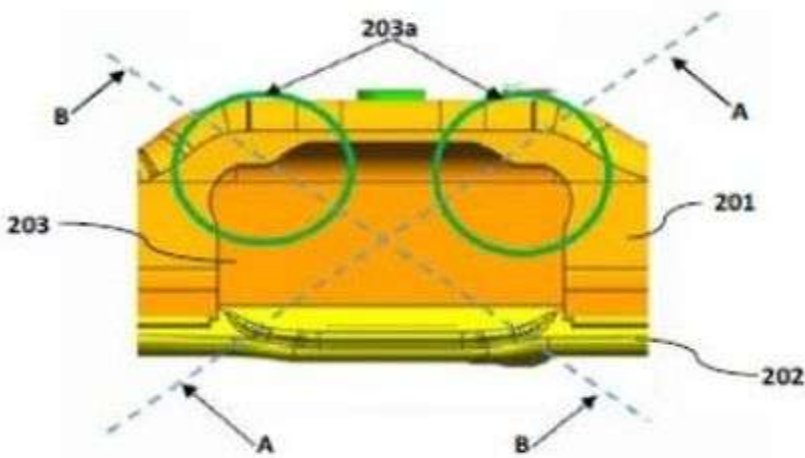
No. of Pages : 20 No. of Claims : 7

(54) Title of the invention : SUSPENSION FRAME STRUCTURE WITH TORQUE ROD CAVITY

(51) International classification	:B62D0021110000, B60K0005120000, E05F0001120000, F16F0001380000, A61B0017700000	(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)ANUPAM PRAKASH
(33) Name of priority country	:NA	2)PULKIT BAGRI
(86) International Application No	:NA	3)VIVEK 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 SUSPENSION FRAME STRUCTURE WITH TORQUE ROD CAVITY Described herein is a main body (200) of suspension frame structure comprising an upper plate (201), a lower plate (202) and a torque rod cavity (203) at width wise center of the main body (200). The torque rod cavity (203) defines a wave shaped profile (203a) at upper two corners to provide stiffness and to cater twisting loads. The torque rod cavity (203) defines two lower corners along a lap joint formed, in the plane of torque rod cavity (203), between peripheral edges of an upper plate (201) and a lower plate (202) of the main body (200). The torque rod cavity (203) defines a lower edge, which gives additional twisting bearing strength. [To be published with FIG. 4]



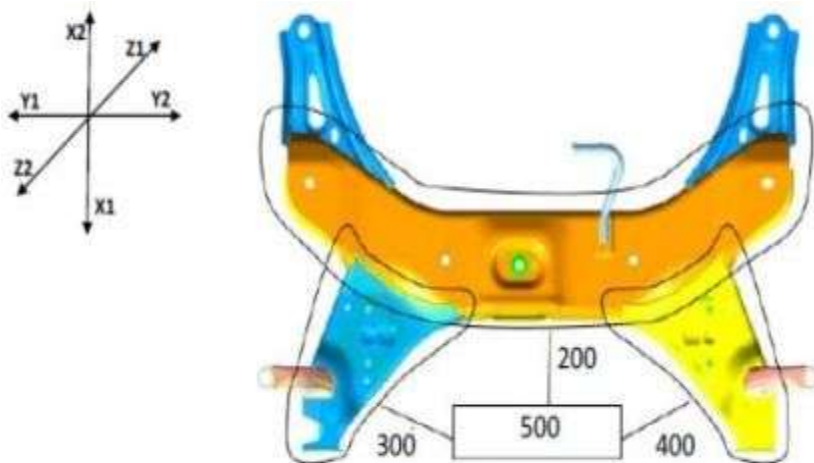
No. of Pages : 22 No. of Claims : 8

(54) Title of the invention : SUSPENSION FRAME STRUCTURE

(51) International classification	:B62D0021110000, B62K0005100000, B60W0010220000, A41D0003000000, B60G0011280000	(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)PULKIT BAGRI
(33) Name of priority country	:NA	2)AYUSH NEGI
(86) International Application No	:NA	3)ANUPAM PRAKASH
Filing Date	:NA	4)MAHESHKUMAR B HANCHINAL
(87) International Publication No	: NA	5)AMRITASHU BARDHAN
(61) Patent of Addition to Application	:NA	6)PARDEEP KATHURIA
Number	:NA	7)MASATOMO KAMEI
Filing Date	:NA	8)VIVEK TRIVEDI
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein is a suspension frame structure (500) comprising a main body (200), a right side-body member (300), and a left side-body member (400) where the right side-body member (300) and the left side-body member (400) are joined with the main body (200) by means of arc welding to form the suspension frame structure (500). The suspension frame structure is box type structure containing three boxes, such as main body (200), left side-body member (300), and the right side-body member (400). [To be published with FIG. 2]



No. of Pages : 29 No. of Claims : 12

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING REWARDS IN AN ONLINE RECRUITMENT PROCESS

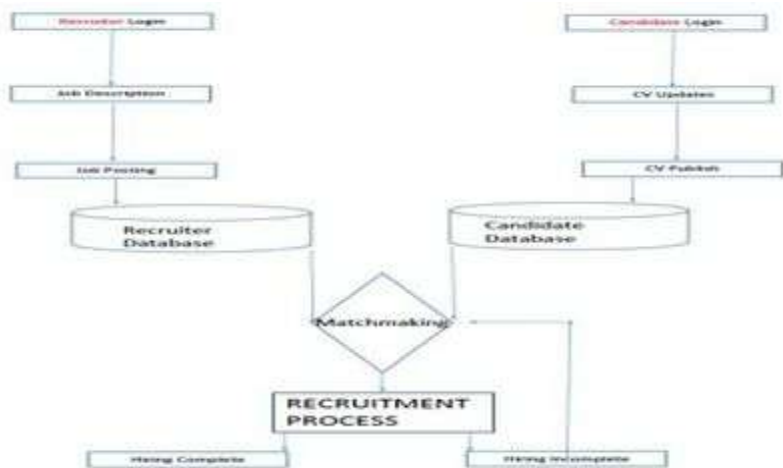
(51) International classification :G06Q0010100000,
G06Q0030020000,
G06Q0010060000,
G06Q0040000000,
H04W0076100000

(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) JOSE HUXLEY
Address of Applicant :Flat 311, Norton court 1, Motorcity, Dubai U.A.E.
(72)**Name of Inventor :**
1) JOSE HUXLEY

(57) Abstract :

The present invention is a method and system to distribute income generated out of a recruitment process of a job portal with four of its key stake holders. First the candidate, second the candidates proposer, third the candidates recruiter and fourth the Portal. The invention is initiated upon the completion of a candidate hiring. Candidate Rewards are generated based on the rules such as salary of the hired candidate, or revenue or profits generated by the portal. Proposer Rewards are generated based on the rules such as, number of recommendations in a given time frame, salary of the hired candidate, revenue, or profits generated by the portal. And lastly, Recruiter Rewards based on the rules such as, the number of recruitments posts, successful completion of hiring, profits, or even revenues. The balance goes to the recruitment portal The Complete hiring process ends with suitably rewarding and incentivizing all the stakeholders of a recruitment program.



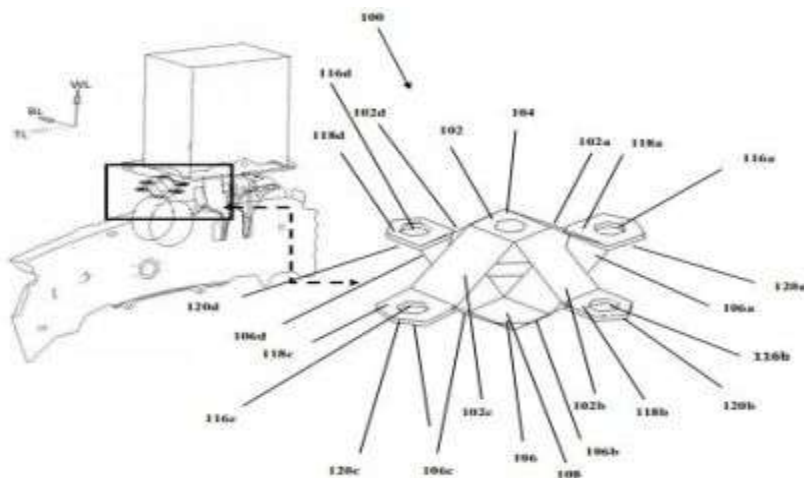
No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : TWIN-BRACKET REINFORCEMENT STRUCTURE FOR A VEHICLE

(51) International classification	:A61B0017840000, A63B0069000000, F28F0009000000, F21V0023020000, F41H0005040000	(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)SAURABH KUMAR
(33) Name of priority country	:NA	2)NILESH KUMAR DEHARIYA
(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 twin-bracket reinforcement structure (100) according to the present invention comprises a first bracket (102) with a plurality of legs (102a, 102b, 102c, 102d) extending outwards and a first end of the plurality of legs (102a, 102b, 102c, 102d) of the first bracket (102) is connected to each other through a first head (104). Further, a plurality of flanges (118a, 118b, 118c, 118d) extending outwardly is provided from a second end of each of the plurality of legs (102a, 102b, 102c, 102d) of the first bracket (102). Further, the structure (100) comprises a second bracket (106) with a plurality of legs (106a, 106b, 106c, 106d) extending outwards and a first end of the plurality of legs (106a, 106b, 106c, 106d) of the second bracket (106) is connected to each other through a second head (108). Furthermore, a plurality of flanges (120a, 120b, 120c, 120d) extending outwardly from a second end of each of the plurality of legs (106a, 106b, 106c, 106d) of the second bracket (106), wherein, the first bracket (102) is placed above the second bracket (106) in an inverted manner such that the flanges of the plurality of legs (102a, 102b, 102c, 102d) of the first bracket (102) are joined with the flanges of the plurality of legs (106a, 106b, 106c, 106d) of the second bracket (106).



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039467 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN IMPROVED VEHICLE COVER

(51) International classification	:B60J0011000000, B60J0011020000, E21B0049000000, B60R0005040000, B60J0011040000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125 NOIDA UTTAR PRADESH-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NITESH SINGH RAJPUT
(33) Name of priority country	:NA	2)DIWAKAR SRIVASTAVA
(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 system and method for vehicle cover inside (rolled) which can be affixed on the roof of the vehicle. This device helps in easy covering of the vehicle anywhere and without any hustle. There is no need to pull the entire cover from boot space. Single person can manually cover and uncover the vehicle.

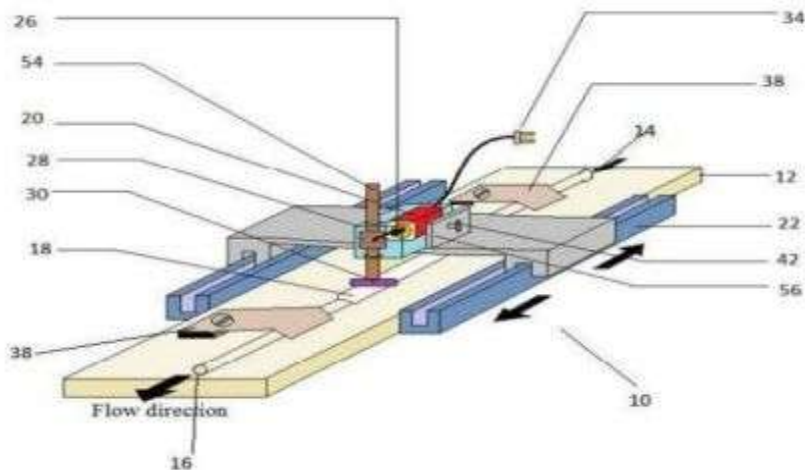
No. of Pages : 14 No. of Claims : 1

(54) Title of the invention : MICRO IMPEDANCE PUMP

<p>(51) International classification :A61M0005168000, A61B0001000000, F04B0043020000, A61M0005142000, A61M0039240000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD Address of Applicant :Devghat Jhalwa, Allahabad, Uttar Pradesh 211015, INDIA Uttar Pradesh India</p> <p>(72)Name of Inventor : 1)Dr. AMIT PRABHAKAR 2)AMAR DHWAJ</p>
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(57) Abstract :

The present invention particularly relates to a micro impedance pump for pumping the fluid in micro fluidic channel comprising a pump base with an inlet and an outlet tube , for the flow of fluid, the inlet & outlet tube covered by an elastic tubing fixed over the pump base, a miniature motor is fixed over the pump base with the help of assembly guide and holding screw, a tapping unit which actuates in order to drive the micro impedance pump, a speed control circuit and a power cord for supply of current and voltage to the miniature motor.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039532 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN ULTRA ABSORBENT BLOOD CLOTTING PATCH/STRIP FOR HEALING WOUND

(51) International classification	:A61L0015180000, A61F0013000000, A61L0015440000, G01N0033860000, D06M0011570000	(71) Name of Applicant : 1)GHANSHYAM DAS AGRAWAL Address of Applicant :Rasoolpur Jahanganj, Near Hathoda Chauraha, Shahjahanpur. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)GHANSHYAM DAS AGRAWAL
(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 :

This invention relates to an ultra absorbent blood clotting patch/strip for healing wound comprising knitted viscose filament yarn fabric impregnated with a chemical for enhancement of blood coagulation, promoting blood clotting and providing astringent action. The chemical includes Potash Alum (potassium aluminium sulphate dodecahydrate), zinc chloride, ferric sulphate. The knitted viscose filament yarn fabric is provided with a stitch line of radio opaque thread. The advantageous features of the present invention can be listed hereinbelow: - - Fast blood clotting property Free from fiber shedding (non linting) Strong enough to be pulled out of a wound cavity without breaking - Radio-opaque marker to make it visible on X-ray - Enhancement of blood coagulation - Provides astringent action - Provides clotting action beyond the confines of patch.



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

(54) Title of the invention : INTEGRATED EXHAUST MANIFOLD FOR MULTI-CYLINDER IC ENGINE TO PREVENT CROSS FLOW OF EXHAUST GASES

(51) International classification :F01N0013100000,
F02F0001240000,
F01N0013180000,
F01N0009000000,
F01N0013000000

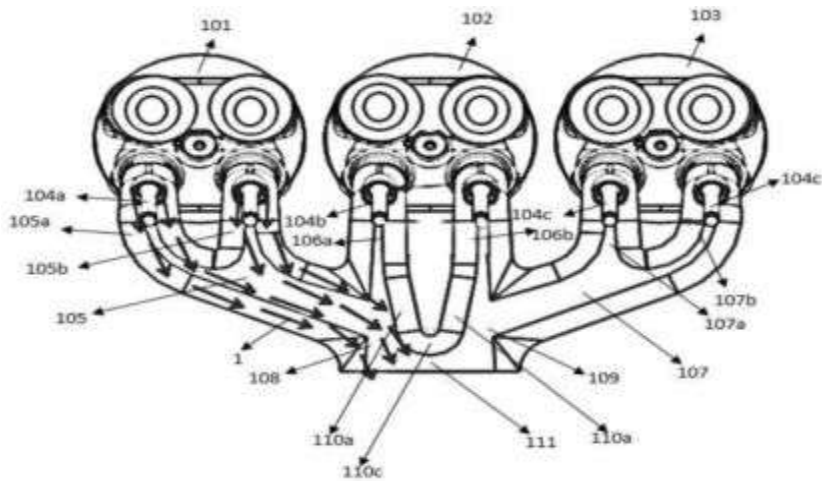
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MARUTI SUZUKI INDIA LIMITED
Address of Applicant :1 NELSON MANDELA ROAD,
VASANT KUNJ, NEW DELHI-110070, INDIA. Delhi India

(72)Name of Inventor :
1)AMANDEEP SINGH
2)JASPREET SINGH
3)SANJAY
4)ANKIT JALAN
5)NARINDER KUMAR
6)SHAILENDER SHARMA

(57) Abstract :

The present disclosure relates to an Integrated Exhaust Manifold (100) for preventing cross flow of exhaust gases in a plurality of cylinders (101, 102, 103). The Integrated Exhaust Manifold (100) is provided with an integrated deflector (110) that guides the flow of exhaust gases from the first merged exhaust line (108) and the second merged exhaust line (109), so as to restrict the cross flow of exhaust gases and to avoid entering of exhaust gases from one cylinder into other cylinder.



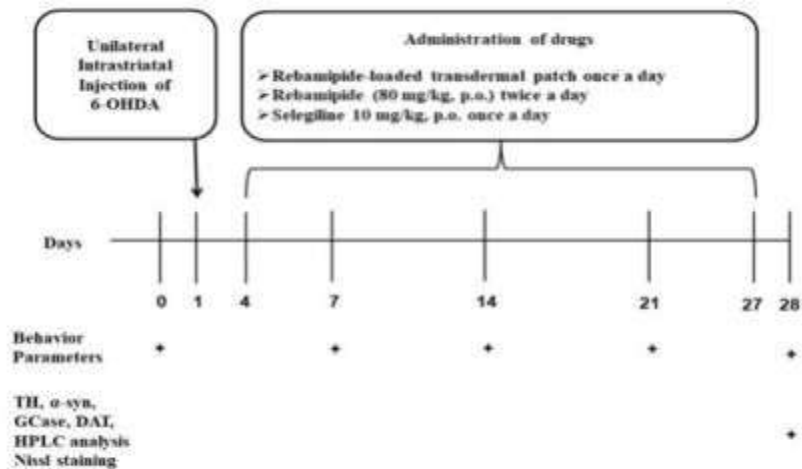
No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : REBAMIPIDE LOADED TRANSDERMAL PATCH FOR NEURODEGENERATIVE DISEASE

(51) International classification	:A61K0009700000, A61K0031470400, A61K0009000000, A61K0047320000, A61K0031496000	(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)SAIRAM KRISHNAMURTHY
(33) Name of priority country	:NA	2)AKANKSHA MISHRA
(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 rebamipide transdermal patch for the treatment of Parkinsons disease and method of preparation thereof. The present invention enabled the production of a stable transdermal patch by using the combination of active agent and excipients in optimum amount. The pharmaceutically acceptable excipients include but are not limited to a polymer, a permeation enhancer, a penetration enhancer, a plasticizer, a surfactant and a solubilizing agent.



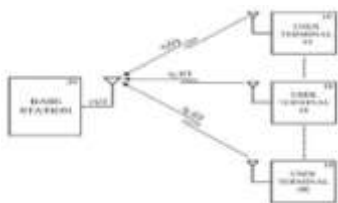
No. of Pages : 41 No. of Claims : 13

(54) Title of the invention : METHOD AND APPARATUS FOR UPLINK TIMING SYNCHRONIZATION IN WIRELESS COMMUNICATION SYSTEM

(51) International classification	:H04W0056000000, H04J0003060000, H04L0027260000, H04B0007185000, H04L0025020000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi - 110016 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MOHAMMED, Saif Khan
(33) Name of priority country	:NA	2)SINHA, Alok 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 discloses a method for estimating the round-trip propagation delay between a user terminal (UT) and the base station (BS) in a cellular wireless communication system. The random access (RA) waveform transmitted by a UT in the uplink is used by the BS to estimate the round-trip propagation delay between the transmitting UT and the BS. This estimate is then fed back to the UT by the BS, and is used by the UT to correct its uplink timing so that the uplink signals from all UTs are received synchronously at the BS, which helps in minimizing the width of the guard bands along the Delay domain. Note that in the absence of this timing synchronization, the guard band overhead is at least equal to the maximum possible round-trip propagation delay between the BS and any UT in the cell. In the present invention, the RA waveform is specified in the Delay-Doppler (DD) domain, and it is transformed to the time domain before transmission from the UTs. The received time domain RA waveform at the BS is converted back to the DD domain. From the RA waveform signals received at the BS in the DD domain, the BS can accurately estimate the round-trip propagation delay between the terminal and itself even in the presence of high Doppler spread due to mobility or other reasons. This is possible only because in the DD domain the amount of channel induced shift to a RA waveform signal along the delay domain is proportional to the delay of the propagation path and further that this shift is almost invariant of the Doppler shift of that propagation path. Once the BS accurately estimates the round-trip propagation delay from the UT, this estimate is fed back to the UT which then adjusts its uplink timing in such a way that the uplink signal from all UTs arrive at the BS within a time window equal to the maximum delay spread of the wireless channel which is generally much smaller than the maximum round-trip propagation delay between the BS and any UT in the cell.



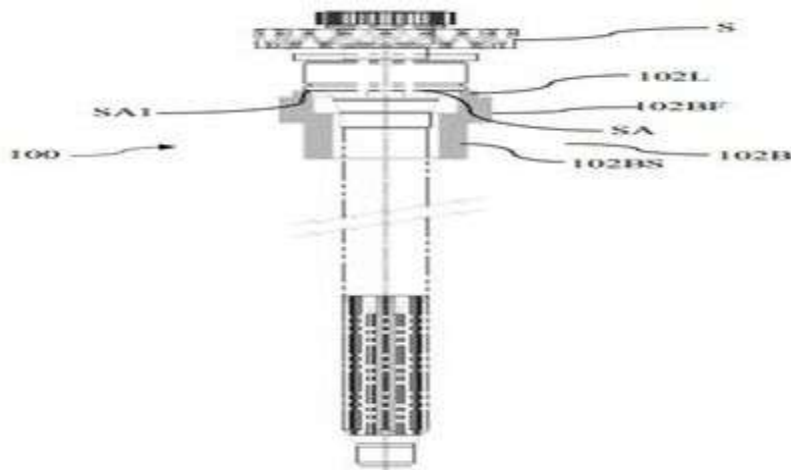
No. of Pages : 47 No. of Claims : 14

(54) Title of the invention : A DEVICE AND A METHOD FOR REDUCING DEFORMATION IN A SHAFT DURING HEAT TREATMENT

(51) International classification	:B60K0006480000, A61F0007120000, F16D0001080000, F04D0029580000, A61B0017064000	(71)Name of Applicant : 1)Mahindra & Mahindra Ltd. Address of Applicant :Mahindra & Mahindra Ltd. Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area, S.A.S. Nagar, Mohali Punjab India 160055 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)AJAY KUMAR SHUKLA
(33) Name of priority country	:NA	2)Atul Kumar Saxena
(86) International Application No	:NA	3)Lakhvir Singh
Filing Date	:NA	4)Pawan Kumar Choudhary
(87) 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 and a method (200) for reducing deformation in a shaft (S) during heat treatment. The device includes a shaft locator (100) adapted to load the shaft (S) onto a fixture member (P). The shaft locator (100) includes a body (102B) adapted to be engaged with the fixture member (P) and a plurality of legs (102L) adapted to engage corresponding portion of the shaft (S) to mount the shaft (S) thereon. A contact surface area between the plurality of legs (102L) and corresponding portion (SA1) of the shaft (S) is lesser than a surface area of corresponding portion (SA) of shaft (S) which is disposed immediately above plurality of legs (102L) therein to reduce deformation in shaft (S) during heat treatment. The device restricts straightening of shaft after heat treatment of shaft and reduces deformation in a shaft while measuring run-out at splined area of shaft and reduction in chances of material failure.



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

(54) Title of the invention : DRY POWDER INHALABLE PHARMACEUTICAL COMPOSITION COMPRISING PHYTOCHEMICALS

(51) International classification :A61K0009000000,
A61K0036906600,
A61K0036906200,
A61K0036600000,
A61K0036710000

(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)ARORA, Sandeep
2)SINGH, Sukhbir
3)SHARMA, Neelam
4)BANSAL, Anil
5)YADAV, Alpesh

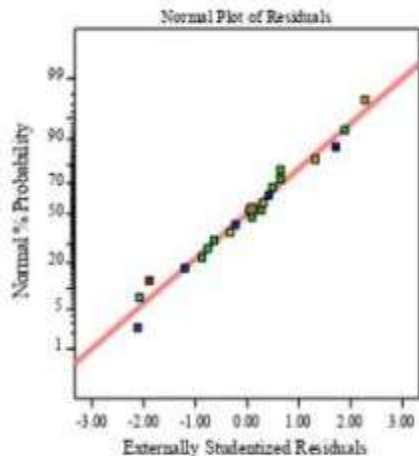
(57) Abstract :

The present invention generally relates to a pharmaceutical composition of phytochemicals. Specifically, the present invention relates to a dry powder inhalable pharmaceutical composition comprising extracts oi Alpinia galangal, Curcuma longa and Ficus racemosa. The dry powder inhalable pharmaceutical composition is useful in the treatment of respiratory problems like asthma, pleuritic and bronchitis.

Design-Expert® Software
Trial Version

D-aero (µm)

Color points by value of
D-aero (µm):



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039604
A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR CLEANING A BOARD

(51)
International :G06F0016583000,G06F0016438000,G06F0016580000,B63G0008420000,G06F0016510000
classification
(31) Priority
Document :NA
No
(32) Priority :NA
Date
(33) Name
of priority :NA
country
(86)
International
Application :NA
No :NA
Filing
Date
(87)
International : NA
Publication
No
(61) Patent
of Addition
to
Application :NA
Number :NA
Filing
Date
(62)
Divisional to
Application :NA
Number :NA
Filing
Date

(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)KADYAN, Virender
2)SHARMA, Rishabh
3)KUMAR, Gireesh
4)VERMA, Santosh

(57) Abstract :

The present disclosure provides a system and method for cleaning a board. The system includes: a sliding assembly coupled to the board, and having sliding member and cleaning unit coupled to sliding member; an input unit having imaging device configured to receive information associated with the board and generate first set of images associated with the information; and a control unit configured to clean, by using the cleaning unit, the board by activating the sliding assembly; detect, upon generation of the first of images, one or more objects in at least one of the first set of images; generate, by the control unit, metadata associated with at least one of the detected objects to extract a query image from the first set of images based on the metadata; and clean, by using the cleaning unit, based on extraction of the query image, the board.



No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039608 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

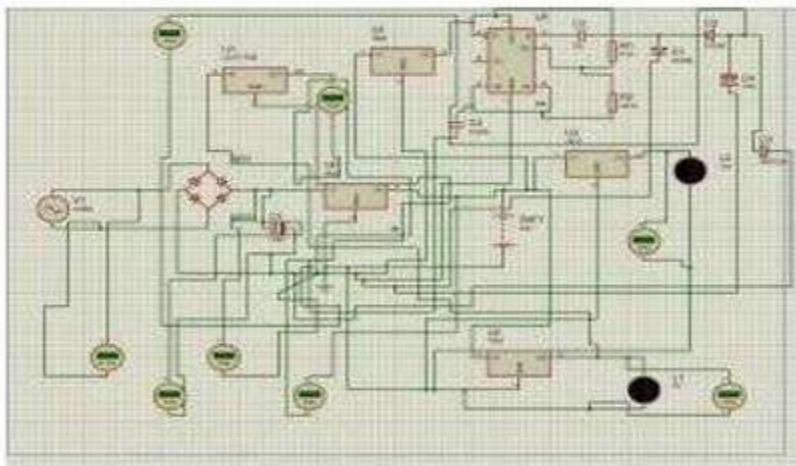
(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM OF POWER SUPPLY FOR COMPUTER DESKTOP CPU WITH BACKUP

(51) International classification	:H02J0013000000, G06F0001260000, G06F0001300000, H02J0009060000, H02H0003520000	(71) Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BRIJ BHUSHAN
(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 :

This invention relates to a system of power supply for computer desktop CPU with backup. Each and every pc is operated on the direct AC Mains and when the AC Mains fails the systems are not able to work due to the lack of power supply. To overcome this issue we use UPS and in this inventions I have tried to make a power supply with back up for the personal computers the battery connected in the circuit will provide the back up and the circuit will charge the battery when it working on the AC Mains.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039609 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

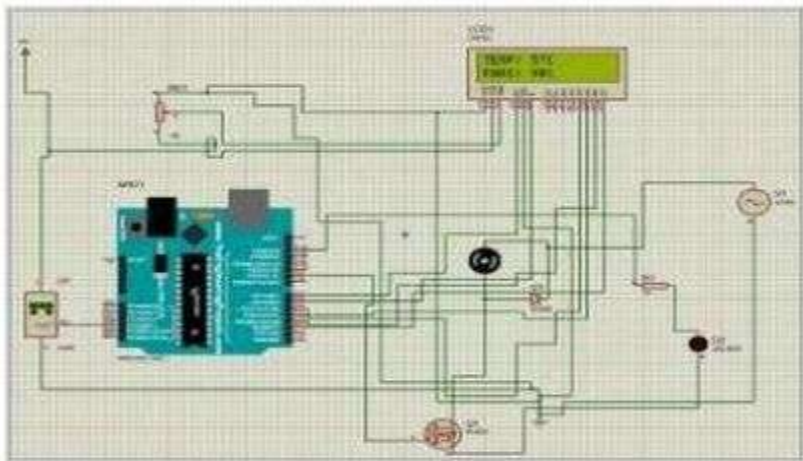
(43) Publication Date : 02/04/2021

(54) Title of the invention : SMOKE AND TEMPERATURE SENSOR SYSTEM FOR CONTROL EXHAUST FAN AND KITCHEN CHIMNEY USING ARDUINO

(51) International classification	:F24C0015200000, F24F0011000000, H02K0021240000, H02J0007000000, F21V0033000000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)BRIJBHUSHAN
(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 :

This invention relates to a smoke and temperature sensor system for control exhaust fan and kitchen chimney using Arduino. Every invention now a day is done to reduce the consumption of energy and this invention is also providing a small solution for this issue with the help of the sensor and microcontroller (Arduino) we can control the speed of the motor/fan with the valuable input of the sensor we can control the triggering on and off of the Motor and Fan.



No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : A SYSTEM OF CAR CABIN SUFFOCATION REMOVER AND METHODS THEREOF

(51) International classification :A61L0009120000,
E05F0015695000,
F16H0055360000,
E06B0007100000,
F02D0041240000

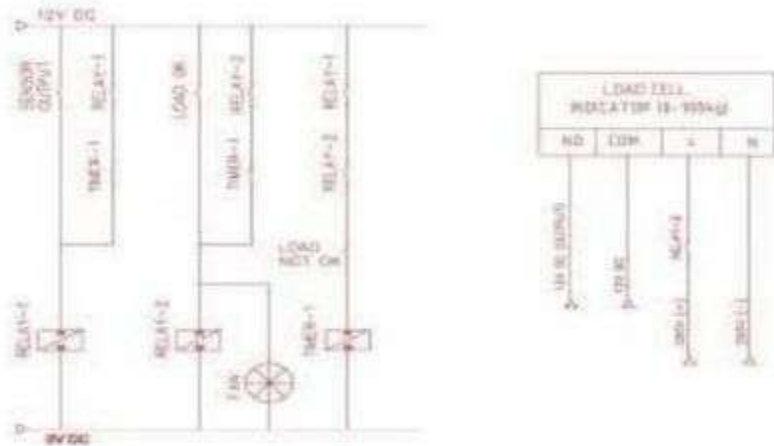
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES
Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229 (HP) Himachal Pradesh India

(72)Name of Inventor :
1)NIPUN BATIS
2)KOUSHIK DAS SARMA
3)BHASKAR GOEL

(57) Abstract :

This system is developed on Relay Logic and provides air from the air from the outside to someone who gets locked in the car & will work when there is a load of minimum 2 Kgs. This invention is done to save the dependent people from suffocation who gets struck in the locked car when the engine is off without opening the window or lowering down the window glasses by detecting the off of the engine and load on any of the seats and then giving power to the DC fan fitted in the front mirror AC duct of the car.



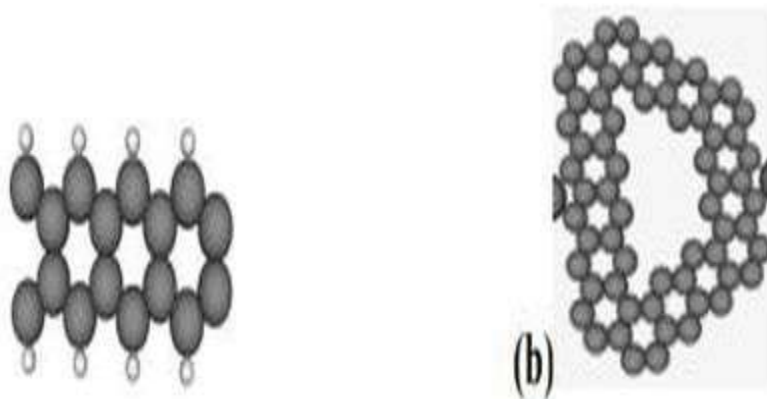
No. of Pages : 7 No. of Claims : 7

(54) Title of the invention : SPIN-DEPENDENT TRANSPORT PROPERTIES OF GRAPHITE NANOSTRUCTURES AND METHODS THEREOF

(51) International classification	:B82Y0010000000, H01L0029660000, H01L0051000000, B82Y0025000000, H01L0051500000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr RAJESH KUMAR
(33) Name of priority country	:NA	2)ALLAH DEKAMA JARA
(86) International Application No	:NA	3)RITESH VERMA
Filing Date	:NA	4)ANKUSH CHAUHAN
(87) 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 :

This invention relates to the spin-dependent transport properties of graphite nanostructures and methods thereof. We presented a first-principles study of spin-dependent transport properties of various exotic graphite nanostructures using non-equilibrium Greens function density functional theory (NEGF-DFT). We investigated the effect of cobalt doping on the robustness of spin-polarization in D-shaped zigzag graphene nanoribbons (D-zGNRs). The effect of dopant on the electronic structure of the devices was studied by using first principle ab-initio DFT techniques along with spin-polarized Local density approximation (SLDA) with the help of SIESTA based ATK VNL. We found the high stability of materials at the minimum energy of formation at the Fermi level, moreover, the net magnetic moment decreases as dopant introduced into the device. The spin polarization of the system is nearly 100%. Hence, the device shows a novel potential for future spintronic application to replace the current electronic devices.



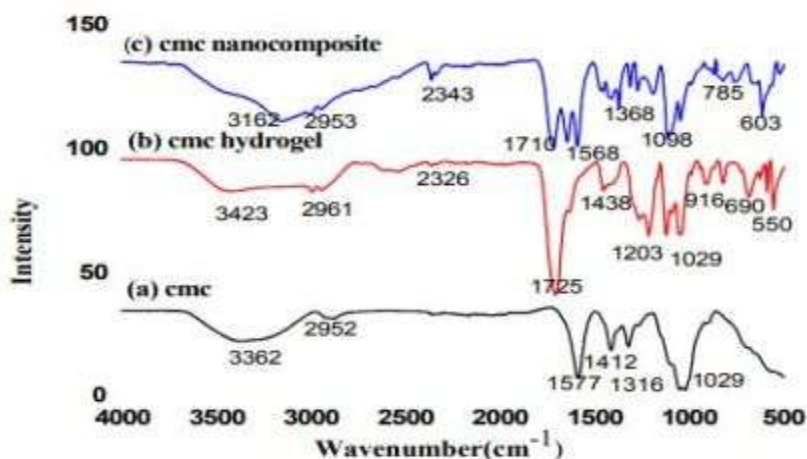
No. of Pages : 25 No. of Claims : 8

(54) Title of the invention : A DRUG DELIVERY SYSTEM OF CARBOXYMETHYL CELLULOSE-CL-POLY(LACTIC ACID-CO-ITACONIC ACID)/ZNO-AG NANOCOMPOSITE AND METHODS THEREOF

(51) International classification	:D21H0017260000, D21H0011160000, H01M0010052000, C02F0001280000, B01J0037030000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229, (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ADESH K. SAINI
(33) Name of priority country	:NA	2)DEEPAK PATHANIA
(86) International Application No	:NA	3)SWADEEP SOOD
Filing Date	:NA	4)RAKESH KUMAR
(87) International Publication No	: NA	5)SARITA KUMARI
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to a Drug delivery system of carboxymethyl cellulose-cl-poly(lactic acid-co-itaconic acid)/ZnO-Ag nanocomposite. This invention also relates to Synthesis of Ag-ZnO nanocomposite of carboxymethyl cellulose grafted with lactic acid and itaconic acid and its potential role in photocatalysis, drug delivery and as antioxidant. In this invention, we report the microwave assisted synthesis of carboxymethyl cellulose-cl-poly(lactic acid-co-itaconic acid)/ZnO-Ag nanocomposite [CMC-cl-p(LA-co-IA)/ZnO-Ag]. Lactic acid (LA) and itaconic acid (IA) monomers were grafted onto carboxymethyl cellulose (CMC) using potassium persulphate and N, N-methylene-bis-acrylamide (MBA) as initiator and crosslinker, respectively at optimised conditions. The formation of nanocomposite was confirmed by Fourier transform infrared spectroscopy (FTIR), field emission scanning electron microscopy (FESEM), transmission electron microscopy (TEM), X-ray diffraction (XRD) and energy dispersive X-ray (EDX). The drug release of amoxicillin using nanocomposite as a function of pH and time was studied. The maximum drug release of 94.64 % was observed at pH 2.2 after 6 hours. In vitro antioxidant study of nanocomposite using ABTS (2,2- azino-bis(3-ethylbenzthiazoline-6-sulfonic acid) assay showed mild antioxidant behavior. Photocatalysis of congo red dye using nanocomposite was also studied and maximum degradation of 93.2 % was observed after 4 hours of photocatalysis directly in solar light. During the study of nanocomposite with H₂O₂ treated yeast cells, nanocomposite showed potential for anticancer behaviour.



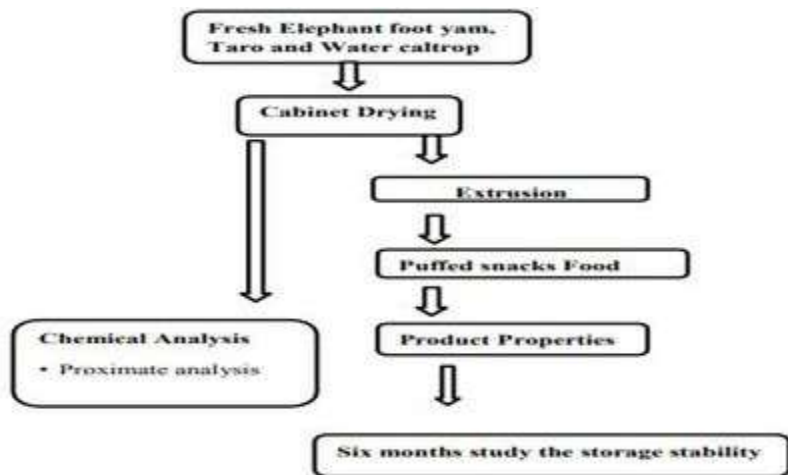
No. of Pages : 27 No. of Claims : 7

(54) Title of the invention : A METHOD TO DEVELOP NON-CEREAL STARCH BASED EXTRUDED SNACKS

(51) International classification	:A23K0040250000, A23K0040200000, A23P0030340000, A23L0007100000, A23L0007170000	(71) Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES; VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. RAVINDER KAUSHIK
(33) Name of priority country	:NA	2)ANUJ SAKLANI
(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 :

This invention relates to development and evaluation of functional extruded snacks from non-cereal starch sources. Demand for health oriented products such as low calories and high fiber product is demand. In the present study extruded products was prepared by equal proportionate mixture of elephant foot yam, taro and water caltrop flour. In this work it was studied the effects of process parameters and physical properties of extrudates snacks. Extrusion process was carried out using a co-rotating twin-screw extruder in a factorial central composite rotatable design with three factors: moisture (15-21%), extrusion temperature (130-170 °C) and screw speed (120-160 rpm). The effect of extrusion variables was investigated in terms of expansion ratio, bulk density, water absorption index, water solubility index, and hardness. The data analysis showed that variable parameters of the extrusion process affected physical properties of puffed snacks.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039614 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

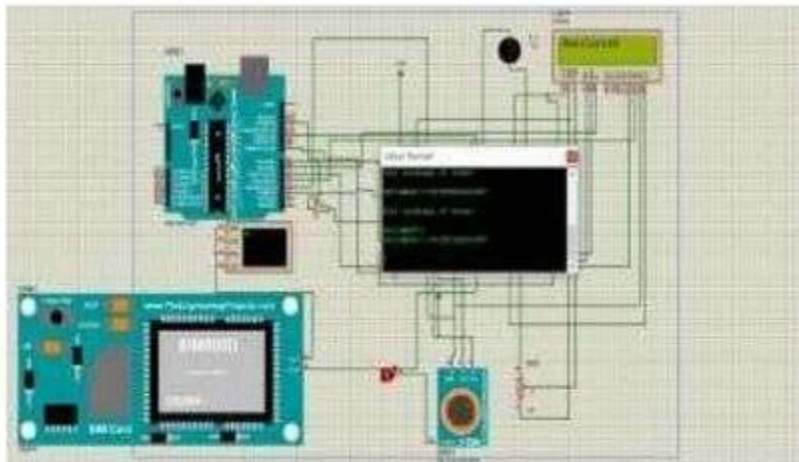
(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATIC AC MAINS CUT OFF SYSTEM ON LPG GAS LEAKAGE USING ARDUINO WITH SMS ALERT TO THE USERS

(51) International classification	:G08B0026000000, B26D0007060000, F17C0013020000, A47J0037070000, G08B0021160000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :VILLAGE- BHAJOL, P.O. SULTANPUR, SOLAN-173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)BRIJBHUSHAN
(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 :

The present invention relates to automatic ac mains cut off system on LPG gas leakage using Arduino with SMS alert to the users. In our day to day life we use LPG for cooking our food Use of LPG gas in our day to day life is very important and as we know that it is highly inflammable substance so in any case of LPG Leakage the electricity which is also one of the most important thing in our life can play a very huge role and can convert a leakage into a big disaster. So we proposed a system which is capable of automatically cutting off the supply of Electricity AC Mains and in addition to this information to user on his/her Mobile phone indicating that there is a gas leakage at their home.



No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911039615 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SINGLE PLATFORM MULTI-TEMPERATURE SOLAR POWERED ORBITAL SHAKER INCUBATOR FOR GROWING MICROORGANISMS AT DIFFERENT TEMPERATURE AND METHOD OF USE THEREOF

(51) International classification	:C12M0001000000, C12M0001340000, A61G0011000000, C12M0001360000, C12M0003000000	(71) Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES, BAJHOL, PO SULTANPUR, DISTT. SOLAN 173229 (HP), INDIA Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ADIT RANA
(33) Name of priority country	:NA	2)PROF. KAMAL DEV
(86) International Application No	:NA	3)Dr.RAJ KUMAR
Filing Date	:NA	4)Prof. (Dr.) SHAM SINGH CHANDEL
(87) International Publication No	: NA	5)NIDHI KAPOOR
(61) Patent of Addition to Application Number	:NA	6)PROF. ANURADHA SOURIRAJAN
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to a novel multi temperature-controlled design of shaker incubator is being developed to counter the problem of buying multiple shaker incubators for growing microbial cultures with different temperature requirement. This is one step solution to grow different micro-organisms with different temperature requirements. Moreover, this single platform orbital shaker provides solution for the growth of microorganism even during power failures, so as to prevent the failure of experiments in educational institutions and industrial setups. This project is related to the replacement of the conventional shaker incubator, in which one could set only one temperature at a time. The current model of shaker incubator provides an effective solution to grow different microorganisms as per the different temperature requirements in a single platform (row). This shaker incubator is also designed to control the operations from long distances



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014012920 A

(19) INDIA

(22) Date of filing of Application :25/03/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESSING SERVICE REQUESTS IN A CONVEYANCE SYSTEM

(51) International classification	:B66B0001460000, H05K0003120000, B66B0005000000, H04W0074000000, B65G0043000000	(71) Name of Applicant : 1)OTIS ELEVATOR COMPANY Address of Applicant :One Carrier Place, Farmington, Connecticut 06032, United States of America U.S.A.
(31) Priority Document No	:16/586,084	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)PAHLKE, Derk Oscar
(33) Name of priority country	:U.S.A.	2)HENTSCHEL, Lutz
(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 processing a service request related to a conveyance system includes receiving the service request related to the conveyance system; determining whether the service request identifies the conveyance system as running or not running; upon determining that the service request identifies the conveyance system as not running: determining whether a conveyance system status is accessible; when the conveyance system status is accessible, determining from the conveyance system status whether the conveyance system is operating properly; when the conveyance system status is not accessible, obtaining at least one input from the conveyance system and determining from the at least one input whether the conveyance system is operating properly.

No. of Pages : 24 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013141 A

(19) INDIA

(22) Date of filing of Application :26/03/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : CONTROLLING MOVEMENT OF AN ELEVATOR CAR OF AN ELEVATOR SYSTEM

(51) International classification	:B66B0005000000, B66B0001340000, B66B0005020000, B66B0009000000, B66B0011000000	(71) Name of Applicant : 1)OTIS ELEVATOR COMPANY Address of Applicant :One Carrier Place, Farmington, Connecticut 06032, United States of America U.S.A.
(31) Priority Document No	:19 199 860.8	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)PAETOW, Alexander
(33) Name of priority country	:EPO	2)PFEFFER, Axel Steffen
(86) International Application No	:NA	3)HERKEL, Peter
Filing Date	:NA	4)TOUTAOUI, Mustapha
(87) 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 :

Elevator system (2) comprising: a hoistway (4) extending between a plurality of landings (8); at least one elevator car (6) configured for moving along the hoistway (4) between the plurality of landings (8); an elevator drive (5) configured for moving the at least one elevator car (6) along the hoistway (4); and an elevator control (9) configured for controlling the elevator drive (5). The elevator control (9) is configured for selectively operating in a normal operation mode or in a maintenance mode. The elevator control (9) is further configured for carrying out the following sequence of steps: (a) switching the elevator control (9) into a maintenance set-up mode in response to receiving a maintenance mode set-up signal; (b) when switched into the maintenance set-up mode and in response to receiving an input signal, controlling the elevator drive (5) for moving the elevator car (6) in accordance with the normal operation mode to a position specified by the input signal; (c) when the elevator car (6) has reached the specified position, switching into the maintenance mode in response to detecting an opening of at least one door (10, 11) providing access to the hoistway (4); (d) in response to detecting that a predefined call button (17a, 17b) has been operated for at least a predetermined period of time, controlling the elevator drive (5) for moving the elevator car (6) in accordance with the maintenance mode.

No. of Pages : 27 No. of Claims : 15

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification	:A61F0013490000, A61F0013496000, A61F0013840000, A61F0013150000, A61F0013560000	(71) Name of Applicant : 1)UNICHARM Corporation Address of Applicant :182, Shimobun, Kinsei-cho, Shikokuchuo-City, Ehime 7990111, Japan Japan
(31) Priority Document No	:2019-179868	(72) Name of Inventor :
(32) Priority Date	:30/09/2019	1)SHIMIZU, Noriko
(33) Name of priority country	:Japan	2)INOUE, Takuya
(86) International Application No	:NA	3)MATSUDA, Yuya
Filing 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 :

[PROBLEM] It is to provide an absorbent article in which it is more likely for the user to recognize stretch/contraction of a 5 stretching/contracting member. [SOLUTION] An absorbent article (1) includes: a stretch/contract region (50) in which a stretching/contracting member (15) is provided; a waist opening; a pair of leg openings; and a design portion (D) in which a stretchable design (DF) is provided. The stretchable design 10 (DF) is capable of be visually recognized from a non-skin-side surface of the absorbent article. The stretchable design (DF) has a portion overlapped with the stretch/contract region (50). The stretchable design (DF) in a stretched state has a plurality of inclined portions (K), and the plurality of inclined portions (K) are inclined with 15 respect to a stretch-contract direction of the stretching/contracting member (15). The plurality of inclined portions (K) are arranged side-by-side along the stretch-contract direction, in a pair located with respect to a reference that is a certain straight line extending along the stretch-contract direction.

No. of Pages : 45 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014020679 A

(19) INDIA

(22) Date of filing of Application :15/05/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN HERBAL COMPOSITION WITH ANTIOXIDANT, ANTI-INFLAMMATORY, AND ANTITHROMBOTIC PROPERTIES AND PRODUCTION METHOD THEREOF

(51) International classification	:A61K0036906800, A61K0036070000, A61K0036896200, A61K0036280000, A61K0036725000	(71) Name of Applicant : 1)CHIANG MAI UNIVERSITY Address of Applicant :239 Huay Kaew Road, Muang District, Chiang Mai, THAILAND 50200 Thailand 2)JW HERBAL COMPANY LIMITED
(31) Priority Document No	:1903002494	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)Tanprawate, Surat
(33) Name of priority country	:Thailand	2)Tipduangta, Pramote
(86) International Application No	:NA	3)Chansakaow, Sunee
Filing Date	:NA	4)Teekachunhatean, Supanimit
(87) International Publication No	: NA	5)Kanyaprasit, Pracha
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An herbal composition with antioxidant, anti-inflammatory, and antithrombotic properties in the form of powder, granule or concentrated extract comprises of either Zingiber officinale or Allium sativum or combination thereof; either Ziziphus jujube or Phoenix dactylifera or combination thereof; and any one or more of Auricularia auricula-judae, Pleurotus giganteus, Lignosus rhinocerotis, Ganoderma lucidum, Tremella uciformis, Lentinula edodes or combination thereof. Wash said herbs with clean water and let them dry, reduce the size of herbs, perform water extraction with a 1:5-10 herbal composition-to-water ratio, heat them at the specified duration, filter the product, and then dry or use for concentrated extract.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014027745 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIGHT-CONCENTRATING DEVICE, LIGHT-CONCENTRATING DISPLAY SCREEN, AND ELECTRIC PRODUCT

(51) International classification	:H04L0012280000, G02F0001290000, G09G0003340000, H01L0031054000, G02B0005040000	(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 China
(31) Priority Document No	:201910925824.2	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)JIA, YUHU
(33) Name of priority country	:China	
(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 light-concentrating device (600), a light-concentrating display screen (300), and an electric product (400, 500) are provided. The light-concentrating device (600) includes a light-concentrating plate (1600). The light-concentrating plate (100) includes dimming units (10), each dimming unit (10) including a house (11), the house (110) being filled with first light-transmissive liquid (114) and second light-transmissive liquid (115) insoluble with each other. Light may be refracted when passing through the interface between the first light-transmissive liquid (114) and the second light-transmissive liquid (115). Adjustment electrodes (12) are provided on sides of the house (11), and a common electrode layer (13) is provided at an end of the house (11). The voltages may be applied between the common electrode layer (13) and the adjustment electrodes (12) on the sides of the house (11).

No. of Pages : 42 No. of Claims : 10

(54) Title of the invention : INTERNAL COMBUSTION ENGINE, STATE DETERMINATION SYSTEM FOR INTERNAL COMBUSTION ENGINE, DATA ANALYSIS DEVICE, AND CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

(51) International classification	:F02D0041140000, F02D0041220000, F02D0041020000, F01N0009000000, F02D0041260000	(71) Name of Applicant : 1)TOYOTA JIDOSHA KABUSHIKI KAISHA Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(31) Priority Document No	:2019-177442	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)Yohsuke HASHIMOTO
(33) Name of priority country	:Japan	2)Akihiro KATAYAMA
(86) International Application No	:NA	3)Yuta OSHIRO
Filing Date	:NA	4)Kazuki SUGIE
(87) International Publication No	: NA	5)Naoya OKA
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT INTERNAL COMBUSTION ENGINE, STATE DETERMINATION SYSTEM FOR INTERNAL COMBUSTION ENGINE, DATA ANALYSIS DEVICE, AND CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE An internal combustion engine (10) includes a state determination device. The state determination device includes a storage device (76, 126) and an execution device (72, 74, 122, 124). The execution device (72, 74, 122, 124) executes an acquisition process, and a determination process. The execution device (72, 74, 122, 124) executes a guard process of bringing an internal combustion engine state variable closer to an allowable range or a value within the allowable range when the internal combustion engine state variable acquired in the acquisition process is out of the predetermined allowable range. The execution device (72, 74, 122, 124) determines the state of the internal combustion engine (10) based on the internal combustion engine state variable after the guard process in the subsequent determination process when the guard process is executed. Selected drawing: FIG. 2

No. of Pages : 134 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014031332 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : OPTICAL IMAGING LENS

(51) International classification	:G06F0017210000, G06F0017240000, G06F0016930000, B41M0003140000, G06F0017220000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICAL CO., LTD Address of Applicant :No. 66-68 Shunyu Road Yuyao, Ningbo Zhejiang 315400, China China
(31) Priority Document No	:201910923460.4	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)HUANG, LIN
(33) Name of priority country	:China	2)LV, Saifeng
(86) International Application No	:NA	3)DAI, Fujian
Filing Date	:NA	4)ZHAO, Liefeng
(87) 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 an optical imaging lens. The optical imaging lens sequentially from an object side to an image side along an optical axis includes, a first lens with refractive power, a second lens with positive refractive power, a third lens with negative refractive power, a fourth lens with refractive power, a fifth lens with refractive power, a sixth lens with refractive power, a seventh lens with positive refractive power and an eighth lens with negative refractive power. A total effective focal length f of the optical imaging lens and the maximum Field of View (FOV) of the optical imaging lens meet $f - \text{TAN}(\text{FOV}/2) > 4.0\text{mm}$; and the total effective focal length f of the optical imaging lens, a center thickness $CT7$ of the seventh lens on the optical axis and a $CT8$ of the eighth lens on the optical axis meet $f/(CT7+CT8) \geq 5.0$.

No. of Pages : 49 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014031333 A

(19) INDIA

(22) Date of filing of Application :22/07/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : OPTICAL IMAGING LENS

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) Name of Applicant : 1)ZHEJIANG SUNNY OPTICAL CO., LTD Address of Applicant :No. 66-68 Shunyu Road Yuyao, Ningbo Zhejiang 315400, China, China
(31) Priority Document No	:201910924180.5	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)LV, Saifeng
(33) Name of priority country	:China	2)DAI, Fujian
(86) International Application No	:NA	3)ZHAO, Liefeng
Filing 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 an optical imaging lens, which sequentially includes, from an object side to an image side along an optical axis, a first lens with refractive power, a second lens with positive refractive power, a third lens with negative refractive power, a fourth lens with refractive power, a fifth lens with refractive power, a sixth lens with refractive power, a seventh lens with refractive power and an eighth lens with negative refractive power. A distance on the optical axis from an object-side surface of the first lens to an imaging surface of the optical imaging lens TTL, $ImgH$ is a half of diagonal length of an effective pixel region on the imaging surface of the optical imaging lens, $ImgH$ and an Entrance Pupil Diameter (EPD) of the optical imaging lens meet $TTL/(EPD-ImgH)$

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014032152 A

(19) INDIA

(22) Date of filing of Application :27/07/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : CONNECTOR PROTECTION STRUCTURE

(51) International classification	:H01R0012700000, B60L0003000000, G03B0003100000, G02B0007090000, B62D0025200000	(71) Name of Applicant : 1)Suzuki Motor Corporation Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-175849	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)FUKUNAGA, Kenshi
(33) Name of priority country	:Japan	2)KONDO, Yoshitaka
(86) International Application No	:NA	3)KUMAKI, Mikie
Filing 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 protector (20) of a protection structure of a connector (15) has a front-side fixed portion (21) fixed to a front side of the connector (15) in an outer side part of a power unit (10) mounted on an electric vehicle, a rear-side fixed portion (23) fixed to a rear side of the connector (15) in the outer side part of the power unit (10), and a connection portion (25) connecting the front-side fixed portion (21) and the rear-side fixed portion (23) and disposed on an upper side of the connector (15) so as to be overlapped at least on a part of the connector (15) on an upper view.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014034041 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : MILLIMETER WAVE ANTENNAS HAVING CONTINUOUSLY STACKED RADIATING ELEMENTS

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way, Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:16/584,067	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)PAULOTTO, Simone
(33) Name of priority country	:U.S.A.	2)EDWARDS, Jennifer M.
(86) International Application No	:NA	3)RAJAGOPALAN, Harish
Filing Date	:NA	4)AVSER, Bilgehan
(87) 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 electronic device may be provided with a phased antenna array. The array may convey signals greater than 10 GHz and may be formed on a substrate having transmission line layers and antenna layers. An antenna in the array may have a radiating element that includes first, second, and third overlapping patch elements on the antenna layers. The antenna may be fed using a differential transmission line coupled to a differential feed on the first patch element. The differential transmission line may include first and second signal traces. A first via may couple the first signal trace to the first, second, and third patch elements. A second via may couple the second signal trace to the first, second, and third patch elements. The patch elements may introduce capacitances to the radiating element that help to compensate for inductances associated with the distance between the radiating element and the signal traces.

No. of Pages : 55 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014034077 A

(19) INDIA

(22) Date of filing of Application :08/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND APPARATUS FOR DETECTING SUBJECT, ELECTRONIC DEVICE, AND COMPUTER READABLE STORAGE MEDIUM

(51) International classification :H04W0036220000,
G06F0017220000,
G06F0017210000,
C07D0403120000,
C07D0413040000

(31) Priority Document No :201910930662.1

(32) Priority Date :29/09/2019

(33) Name of priority country :China

(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)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address of Applicant :No. 18 Haibin Road, Wusha, ChangTMan, Dongguan, Guangdong-523860, China China

(72)**Name of Inventor :**
1)JIA, Yuhu

(57) Abstract :

The present disclosure relates to a method and an apparatus for detecting a subject, an electronic device, and a computer readable storage medium. The method includes the following. A current image and a previous image are obtained (202). A transformation matrix between the current image 5 and the previous image is obtained (204) in response to detecting that the current image indicates the shaking state. The previous image is corrected (206) based on the transformation matrix. The subject detection model is updated (208) based on the corrected previous image. The subject detection is performed on the current image based on the updated subject detection model, to obtain a target subject.

No. of Pages : 74 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014034970 A

(19) INDIA

(22) Date of filing of Application :14/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : HUMAN-MACHINE INTERFACE APPARATUS FOR VEHICLE

(51) International classification	:B60W0030160000, B60W0010040000, B60K0037060000, B60W0030140000, B60W0030085000	(71) Name of Applicant : 1)Suzuki Motor Corporation Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-175865	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)UCHIDA, Hitoshi
(33) Name of priority country	:Japan	
(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 :

To provide a human-machine interface (HMI) apparatus that can convey a vehicle control intention of a system to a driver without causing an additional burden without relying on language or visual means. [Solution] A human-machine interface (HMI) apparatus for a vehicle (1) including a vehicle control unit (10) capable of performing speed control and steering control on the basis of information obtained by an environmental condition estimating part (21-23) includes a seat (3) provided to be tiltable in a vehicle longitudinal direction, an actuator (30) configured to tilt the seat, and a seat tilting control unit (13) configured to make the actuator (30) perform control: to tilt the seat (3) forward when the vehicle control unit (10) performs deceleration control or when probability of performing deceleration control is recognized on the basis of the information obtained by the environmental condition estimating part (21-23); and to return the seat (3) to an original position when the deceleration control is performed or when the probability disappeared.

No. of Pages : 34 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014035758 A

(19) INDIA

(22) Date of filing of Application :19/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : FUEL-CELL UNIT CELL

(51) International classification	:H01M0008027300, H01M0008100400, H01M0008028600, H01M0008101800, H01M0008024700	(71) Name of Applicant : 1)TOYOTA JIDOSHA KABUSHIKI KAISHA Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(31) Priority Document No	:2019-179533	(72) Name of Inventor :
(32) Priority Date	:30/09/2019	1)Nobuaki NONOYAMA
(33) Name of priority country	:Japan	2)Hikaru HASEGAWA
(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 fuel-cell unit cell (100) having a first gas diffusion layer (22) that is laid on a first surface of a membrane-electrode assembly (21) such that an outer peripheral edge portion (22a) thereof protrudes from the first surface of the membrane-electrode assembly (21). At a first part of the fuel-cell unit cell (100): the fuel-cell unit cell (100) has a bonding layer (60); between the membrane-electrode assembly (21) and a portion (22b) of the first gas diffusion layer (22) on an inner side from the outer peripheral edge portion (22a) thereof, the bonding layer (60) bonds the membrane-electrode assembly (21) and the portion (22b) together; and between a support frame (50) and the outer peripheral edge portion (22a) of the first gas diffusion layer (22), between the support frame (50) and a first separator (30), and/or between the support frame (50) and a second separator (40), the bonding layer (60) bonds the support frame (50) and the outer peripheral edge portion (22a) or the separator (30, 40) together. Selected drawing: FIG. 2

No. of Pages : 49 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014035772 A

(19) INDIA

(22) Date of filing of Application :19/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : VEHICLE SIDE DOOR STRUCTURE

(51) International classification	:B60J0005040000, B62D0025080000, E06B0007300000, F21V0031000000, B22D0017220000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-175738	(72) Name of Inventor : 1)Yasuo OYAIDE
(32) Priority Date	:26/09/2019	
(33) Name of priority country	:Japan	
(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 vehicle side door structure has a front side door (20) and a rear side door (10). The front portion of the front side door (20) and the rear portion of the rear side door (10) are arranged opposite each other, and the front portion of the rear side door (10) has a flat surface portion (12) provided on the outer side of the rear side door (10) and extending in the width direction and in the up-down direction, a vertical wall portion (13) extending rearwards from the inner side end in the width direction of the flat surface portion (12) and in the up-down direction, and an inner side surface portion (14) extending to the inner side in the width direction from the rear end of the vertical wall portion (13) and in the up-down direction. Figure 5

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014036767 A

(19) INDIA

(22) Date of filing of Application :26/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : TECHNOLOGIES FOR DETERMINING THE SPATIAL ORIENTATION OF INPUT IMAGERY FOR USE IN AN ORTHOPAEDIC SURGICAL PROCEDURE

(51) International classification	:G06T0007000000, A61B0090000000, A61B0005110000, G06T0019000000, G06T0017000000	(71) Name of Applicant : 1)DEPUY SYNTHES PRODUCTS, INC. Address of Applicant :325 Paramount Drive, Raynham, Massachusetts 02767, United States of America U.S.A.
(31) Priority Document No	:16/586887	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)POLLOCK, SHAWNOAH S.
(33) Name of priority country	:U.S.A.	2)COURTIS, R. PATRICK
(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 :

Technologies for determining the spatial orientation of input imagery to produce a three-dimensional model includes a device having circuitry to obtain two-dimensional images of an anatomical object (e.g., a bone of a human joint), to determine candidate values indicative of translation and rotation of the anatomical object in the two-dimensional images, and to produce, as a function of the obtained two-dimensional images and the candidate values, a candidate three-dimensional model of the anatomical object. The circuitry is also to determine a score indicative of an accuracy of the candidate three-dimensional model, to determine whether the score satisfies a threshold, and to produce, in response to a determination that the score satisfies the threshold, data indicating that the candidate three-dimensional model is an accurate representation of the anatomical object.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014036768 A

(19) INDIA

(22) Date of filing of Application :26/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : TECHNOLOGIES FOR DETERMINING THE ACCURACY OF THREE-DIMENSIONAL MODELS FOR USE IN AN ORTHOPAEDIC SURGICAL PROCEDURE

(51) International classification	:A61B0090000000, G06T0007000000, G16H0050500000, G06T0017000000, G06T0007120000	(71) Name of Applicant : 1)DEPUY SYNTHES PRODUCTS, INC. Address of Applicant :325 Paramount Drive, Raynham, Massachusetts 02767, United States of America U.S.A.
(31) Priority Document No	:16/586884	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)POLLOCK, SHAWN OAH S.
(33) Name of priority country	:U.S.A.	2)COURTIS, R. PATRICK
(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 :

Technologies for determining the accuracy of three-dimensional models include a device having circuitry to obtain two-dimensional images of an anatomical object (e.g., a bone of a human joint), to obtain a candidate three-dimensional model of the anatomical object, and to produce two-dimensional silhouettes of the candidate three-dimensional model. The circuitry is also to apply an edge detection algorithm to the two-dimensional images to produce corresponding edge images and to compare the two-dimensional silhouettes to the edge images to produce a score indicative of an accuracy of the candidate three-dimensional model.

No. of Pages : 43 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014037411 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PIXEL LEAKAGE AND INTERNAL RESISTANCE COMPENSATION SYSTEMS AND METHODS

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way, Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:62/906,615	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)WANG, Chaohao
(33) Name of priority country	:U.S.A.	2)ZHANG, Sheng
(86) International Application No	:NA	3)TANG, Yingying
Filing Date	:NA	4)HOU, Yunhui
(87) 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 electronic device may include an electronic display having multiple pixels to display an image based on processed image data. Each of the pixels may include multiple sub-pixels. The electronic device may also include image processing circuitry to receive first image data for a sub-pixel of the and second image data for a group of sub-pixels surrounding the sub-pixel. The first image data may include a luminance value for the sub-pixel and the second image data may include luminance values for each sub-pixel of the group. The image processing circuitry may also determine a compensation value, to compensate the luminance value for lateral current leakage between the sub-pixel and the group of sub-pixels, based on the luminance value of the sub-pixel and the luminance values for each sub-pixel of the group of sub-pixels.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014037412 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PIXEL LEAKAGE AND INTERNAL RESISTANCE COMPENSATION SYSTEMS AND METHODS

(51) International classification :G01N0033533000,
H05B0031000000,
B01J0020286000,
C02F0003280000,
B63C0007260000

(31) Priority Document No :62/906,615
(32) Priority Date :26/09/2019
(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

(71)Name of Applicant :

1)APPLE INC.

Address of Applicant :One Apple Park Way, Cupertino, California 95014, United States of America U.S.A.

(72)Name of Inventor :

1)FORES HERRANZ, Adria

2)WANG, Chaohao

3)LI, Jun

4)AFLATOONI, Koorosh

5)EMELIE, Pierre-Yves

6)ZHANG, Sheng

7)TANG, Yingying

8)HOU, Yunhui

(57) Abstract :

An electronic device may include an electronic display having multiple pixels to display an image based on processed image data. Each of the pixels may include multiple sub-pixels. The electronic device may also include image processing circuitry to receive input image data, in a first color space, having luminance values for each of the sub-pixels. The circuitry may also map the input image data from the first color space to a second color space and apply a multi-dimensional lookup table, based on the input image data in the second color space, to generate compensated image data. The lookup table may receive the luminance values for each of the sub-pixels and output corrected luminance values compensated for an expected amount of current leakage between the sub-pixels. The circuitry may also inversely map the compensated image data from the second color space to the first color space to generate the processed image data.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014037543 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : RISK-BASED REGULATORY PROCESS MONITORING AND CONTROL

(51) International classification	:G05B0019418000, H04W0076100000, B29C0064153000, H04W0004240000, G01N0033680000	(71) Name of Applicant : 1)HONEYWELL INTERNATIONAL INC. Address of Applicant :Intellectual Property Services Group 300 S. Tryon Street, Suite 600 Charlotte, North Carolina 28202, United States of America U.S.A.
(31) Priority Document No	:16/588104	(72) Name of Inventor :
(32) Priority Date	:30/09/2019	1)Sivanarayana Onteddu
(33) Name of priority country	:U.S.A.	2)Torsten Winkler
(86) International Application No	:NA	3)Priya Ramanujam
Filing Date	:NA	4)Rajendra Bandekar
(87) International Publication No	: NA	5)Alicia C. Kempf
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Automated real-time risk-based regulatory process monitoring and controls are integrated to automation control systems. This allows for a flexible production process that allows continuous process verification. Data integrity is improved by evaluating the effectiveness of existing controls and by continually testing process accuracy and validity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017028357 A

(19) INDIA

(22) Date of filing of Application :03/07/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING QUALITY CONTROL IN 360° IMMERSIVE VIDEO DURING PAUSE

(51) International classification	:H04N 19/162, H04N 13/117, H04N 13/383, H04N 19/132, H04N 19/164	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:16/148001	(72) Name of Inventor :
(32) Priority Date	:01/10/2018	1)PHILLIPS, Chris
(33) Name of priority country	:U.S.A.	2)FORSMAN, Robert Hammond
(86) International Application No	:PCT/SE2019/050940	3)COHEN, Sarel
Filing Date	:30/09/2019	
(87) International Publication No	:WO 2020/071984	
(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 providing quality control in 360° immersive video during pausing of a video streaming session, wherein a paused video frame may comprise a plurality of mixed quality video tiles depending on user gaze vector information. Under pause control of a video optimization node, the video quality of all tiles of the tiled video frame is equalized to a highest video quality corresponding to the quality of the tiles presented in a viewport. In one embodiment, a custom replacement video frame is generated having tiles with the same equalized video quality throughout the full 360° immersive video frame, e.g., an X-frame, is presented to the client device player for decoding and displaying instead of the mixed quality video frame while the streaming session is paused. In another embodiment, a still image based on the custom replacement video frame is provided to the client device to display instead of the mixed quality paused video frame.

No. of Pages : 98 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017029346 A

(19) INDIA

(22) Date of filing of Application :09/07/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PLANT FOR PACKAGING CAPSULES

(51) International classification	:B65B 59/04, B65B 7/16, B65B 29/02, B65G 25/02, B23Q 7/04	(71)Name of Applicant : 1)OMAS TECNOSISTEMI S.P.A. Address of Applicant :39 Via Edison 20023 Cerro Maggiore (MI) Italy
(31) Priority Document No	:102018000009195	(72)Name of Inventor :
(32) Priority Date	:05/10/2018	1)GIUDICI, Savino
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2019/058156	
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/070592	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A plant for packaging capsules comprising a main frame (20) on which is positioned a system for moving capsules (30) to make one or more capsules (12) advance along a first predetermined axial direction (A- A) from an inlet (22) to an outlet (24). The plant comprises a plurality of operating stations (200, 201, 203) for packaging a substance into a plurality of capsules (12), wherein the system for moving capsules (30) comprises a movement device that comprises a pair of sliding profiles (36) that extend along said first predetermined axial direction (A- A) and are connected to the main frame (20), a first movable frame (87, 88, 89) movable in transverse direction with respect to the first predetermined axial direction (A- A), a driving member mounted slidable on an upper movable beam (88) of the first movable frame (87, 88, 89) along said predetermined axial direction (A- A) and positioned between the pair of sliding profiles (36). Said driving member comprises a plurality of drive pins (212) particularly suited to drive a capsule transport support (100) containing said one or more capsules (12).

No. of Pages : 15 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017029990 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : WASHER AND FASTENING STRUCTURE

(51) International classification	:H01M0008027300, H01L0033520000, H05K0003360000, F16F0009348000, H05K0003400000	(71) Name of Applicant : 1)TOSHIBA MITSUBISHI ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Address of Applicant :3-1-1, Kyobashi, Chuo-ku, Tokyo 1040031, Japan. Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ZHENG, Jun
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2019/038086	
Filing Date	:27/09/2019	
(87) 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 washer of the embodiment includes a conductive main body, a first seal portion, and a second seal portion. The main body has an annular plate-shaped body and a protruding portion. The protruding portion protrudes in the thickness direction from the outer peripheral portion of the plate-shaped body. The first seal portion covers 5 the inner peripheral surface at the inner peripheral portion and both surfaces in the thickness direction of the plate-shaped body. The second seal portion covers at least the distal end portion of the protruding portion.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017033715 A

(19) INDIA

(22) Date of filing of Application :06/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : NONAQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY COMPRISING SAME

(51) International classification	:H01M 10/0567, H01M 10/0569, H01M 10/0568, H01M 10/052	(71) Name of Applicant : 1)LG CHEM, LTD. Address of Applicant :128, Yeoui-daero Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:10-2018-0116475	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)OH, Jeong Woo
(33) Name of priority country	:Republic of Korea	2)LEE, Chul Haeng
(86) International Application No	:PCT/KR2019/012608	3)KIM, Hyung Tae
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/067779	
(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 nonaqueous electrolyte and a lithium secondary battery comprising same and, particularly, to a nonaqueous electrolyte and a lithium secondary battery comprising same, the nonaqueous electrolyte comprising: 1.2 M to 3.3 M of a lithium salt; a first organic solvent containing ethylene carbonate; a second organic solvent excluding ethylene carbonate; and an oligomer represented by chemical formula 1 as a first additive, wherein the first organic solvent is contained in the amount of 0.1wt% to 12wt% on the basis of the total weight of the nonaqueous electrolyte.

No. of Pages : 67 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017034623 A

(19) INDIA

(22) Date of filing of Application :12/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND DEVICE FOR DETERMINING TOWER CLEARANCE FOR WIND TURBINE

(51) International classification :F03D 17/00
(31) Priority Document No :201811454363.7
(32) Priority Date :30/11/2018
(33) Name of priority country :China
(86) International Application No :PCT/CN2019/109391
Filing Date :30/09/2019
(87) International Publication No :WO 2020/108088
(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)BEIJING GOLDWIND SCIENCE & CREATION
WINDPOWER EQUIPMENT CO., LTD.**
Address of Applicant :No. 19, Kangding Road Beijing
Economic & Technological Development Zone, Daxing District
Beijing 100176 China
(72)Name of Inventor :
**1)WANG, Baifang
2)YANG, Boyu
3)CHENG, Qingyang**

(57) Abstract :

A method and device for determining a tower clearance for a wind turbine. The method comprises: acquiring an image of a wind turbine in operation (S10), the image comprising the tips of blades (2) and a tower (1) of the wind turbine; determining the positions of the tips of the blades (2) of the wind turbine in the image acquired (S20); identifying the edges of the tower (1) in the image acquired (S30); and calculating, on the basis of the positions of the tips of the blades (2) and the edges of the tower (1) that have been determined, the distance from the tips (2) of the blades (2) to the edges of the tower (1) to acquire a tower clearance (S40). The employment of the method and device for determining the tower clearance for the wind turbine allows the real-time determination of the tower clearance for the wind turbine, thus effectively preventing the blades (2) from hitting the tower.

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017055272 A

(19) INDIA

(22) Date of filing of Application :18/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : DEVICE AND METHOD FOR PREVENTING OVERCHARGE OF RECHARGEABLE BATTERY

(51) International classification	:H02J0007000000, H01M0002100000, H01M0010420000, H01M0002020000, H01M0006500000	(71) Name of Applicant : 1)LG CHEM, LTD. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-Gu, Seoul 07336 Republic of Korea
(31) Priority Document No	:10-2018-0114989	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)NAM, Jung-Hyun
(33) Name of priority country	:Republic of Korea	2)KIM, Jeong-Wook
(86) International Application No	:PCT/KR2019/012606	3)YOON, Wong-Ki
Filing Date	:27/09/2019	4)LEE, Suk-Hoon
(87) International Publication No	:WO 2020/067777	
(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 device and a method for preventing the overcharge of a rechargeable battery, whereby overcharge is prevented for a starting lighting ignition (SLI) battery having at least one rechargeable battery. The device for preventing overcharge, according to one embodiment of the present invention, regulates a voltage applied to a cell assembly, and thus has an advantage of being applicable to both a system which has a voltage regulator (a regulated system) and a system which does not have a voltage regulator (an unregulated system).

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017055710 A

(19) INDIA

(22) Date of filing of Application :22/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY, LITHIUM SECONDARY BATTERY COMPRISING SAME, AND MANUFACTURING METHOD THEREFOR

(51) International classification :H01M0010052500,
H01M0004040000,
H01M0004620000,
H01M0004134000,
H01M0004020000

(31) Priority Document No :10-2018-0132011

(32) Priority Date :31/10/2018

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2019/012542
Filing Date :26/09/2019

(87) International Publication No :WO 2020/091234

(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)LG CHEM, LTD.

Address of Applicant :128, Yeoui-daero, Yeongdeungpo-Gu, Seoul 07336 Republic of Korea

(72)Name of Inventor :

1)HONG, Yeon Suk

2)KIM, Ju Ri

(57) Abstract :

A negative electrode for a lithium secondary battery according to the present invention comprises: a current collector; a negative electrode mixture layer disposed on the current collector; a lithium diffusion rate-controlling layer formed on the negative electrode mixture layer by atomic layer deposition; and a lithium layer disposed on the lithium diffusion rate-controlling layer. The present invention provides a method for prelithiating the negative electrode for a lithium secondary battery and a method for manufacturing a lithium secondary battery comprising the negative electrode. The negative electrode according to the present invention includes a lithium diffusion rate-controlling layer between a lithium thin film and a negative electrode mixture layer, and thereby can control the lithium diffusion rate during a prelithiation process and inhibit lithium loss or side reactions of lithium, thus enhancing cycle characteristics. In addition, according to the manufacturing method of the present invention, a lithium secondary battery is manufactured by forming a lithium diffusion rate-controlling layer having a very small thickness by atomic layer deposition, thereby minimizing a resistance increase in the lithium diffusion rate-controlling layer due to the material characteristics thereof.

No. of Pages : 32 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004270 A

(19) INDIA

(22) Date of filing of Application :01/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : BEVERAGE MACHINE WITH AN ACTUATION DISTRIBUTION

(51) International classification	:G06F0003023000, H04L0029080000, H02J0001080000, F04B0017000000, B65H0031240000	(71) Name of Applicant : 1)SOCIÉTÉ DES PRODUITS NESTLÉ S.A. Address of Applicant :Avenue Nestlé 55, 1800 VEVEY Switzerland
(31) Priority Document No	:18197101.1	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)BENES, Harald
(33) Name of priority country	:EPO	2)HACK, Gottfried
(86) International Application No	:PCT/EP2019/076139	3)OLBERT, Felix
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/064984	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A machine (1) for preparing and dispensing a beverage has an actuation arrangement (5) that includes an actuator (57) and an actuation transmission (50,510,520,530) actuated by the actuator (57). The actuation transmission (50,510,520,530) has an actuation distributor (50) actuated by the actuator (57) and a first actuation output device (510) having a first input port (511) and a second actuation output device (520) having a second input port (521). The actuation distributor (50) has a first output port (50') for operating the first actuation output device (510) via the first input port (511) and a second output port (50'') for operating the second actuation output device (520) via the second input port (521). The first actuation output device (510) and the second actuation output device (520) are displaced in a non-identical manner via the first and second output ports (50',50'').

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004430 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : REACTIVE FORCE GENERATION DEVICE OF CLUTCH-BY-WIRE SYSTEM, AND CLUTCH LEVER DEVICE

(51) International classification	:H02J0007000000, D06F0037400000, G05G0001400000, G10H0001340000, B60K0006445000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-151509	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)SHIMIZU Masahiro
(33) Name of priority country	:Japan	2)WAKAMATSU Kuniaki
(86) International Application No	:PCT/JP2019/020682	3)SHIOMI Yoshinobu
Filing Date	:24/05/2019	4)TOKITO Akira
(87) International Publication No	:WO 2020/031464	5)MORITA Go
(61) Patent of Addition to Application Number	:NA	6)ONO Junya
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A reactive force generation device (130) which constitutes part of a clutch-by-wire system and causes a clutch lever (51) to generate a reactive force is provided with a piston (133) which has a piston structure provided with an air-release hole (139), contacts the clutch lever (51), and has the air-release hole (139) formed therein.

No. of Pages : 47 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004432 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMPOSITION CONTAINING A MUCOLYTIC AGENT FOR THE TREATMENT OF MUCUS HYPERSECRETION AND A DEVICE FOR THE DOSING THEREOF

(51) International classification	:A61K0009000000, A61K0009080000, A61K0038180000, A61M0015000000, A61P0027020000	(71) Name of Applicant : 1)SOFAR S.P.A. Address of Applicant :Via Firenze 40 20060 Trezzano Rosa [MI] Italy
(31) Priority Document No	:102018000007928	(72) Name of Inventor :
(32) Priority Date	:07/08/2018	1)BIFFI, Andrea
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2019/056710	
Filing Date	:07/08/2019	
(87) International Publication No	:WO 2020/031099	
(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 regards a composition in powder form for oral inhalation, preferably for oral aspiration, comprising a mucolytic agent, preferably N-acetylcysteine. Furthermore, the present invention regards said composition for use in a method for the treatment of a mucus hypersecretion and of diseases, symptoms or disorders associated with it in a needy subject. Lastly, the present invention regards a device for administration, through inhalation route by means of oral aspiration, to said needy subject.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004437 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SHEET MEMBER EXHIBITING UNEVENNESS, ABSORBENT ARTICLE EQUIPPED WITH SAME AND PRODUCTION METHOD THEREFOR

(51) International classification	:A61F0013514000, A61F0013496000, B32B0027120000, A61F0013511000, A61F0013150000	(71) Name of Applicant : 1)DAIO PAPER CORPORATION Address of Applicant :2-60, Mishimakamiyacho, Shikokuchuo-shi, Ehime 7990492 Japan
(31) Priority Document No	:2018-182937	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)OKADA,Yuki
(33) Name of priority country	:Japan	2)FURUKAWA,Masashi
(86) International Application No	:PCT/JP2019/034764	
Filing Date	:04/09/2019	
(87) International Publication No	:WO 2020/066511	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] To provide an absorbent article which improves the outward appearance of an absorbent article using a simple method.

[Solution] A sheet member according to the present invention having a liquid-impermeable resin film 11 and a nonwoven fabric 12 adhered to one surface thereof, the sheet member being characterized in that: joined sections where the liquid-impermeable resin film 11 and the nonwoven fabric 12 are joined to one another via a microfibrinous cellulose aggregate 15 and unjoined sections provided between the joined sections in a continuous or intermittent manner are arranged so as to repeatedly alternate with one another; and the nonwoven fabric bulges in the unjoined sections and does not bulge in the joined sections, resulting in the formation of unevenness in the nonwoven fabric 12.

No. of Pages : 66 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004481 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PROCESS FOR PRODUCING LIGHT OLEFINS (ETHYLENE + PROPYLENE) AND BTX USING A MIXED PARAFFINIC C 4 FEED

(51) International classification :C07C0006040000,
C10G0069040000,
C10G0011180000,
C10G0069140000,
C07C0011060000

(31) Priority Document No :62/733766
(32) Priority Date :20/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2019/057920
Filing Date :19/09/2019
(87) International Publication No :WO 2020/058904
(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)SABIC GLOBAL TECHNOLOGIES B.V.

Address of Applicant :Plasticslaan 1 4612 PX Bergn Op Zoom
Netherlands

(72)Name of Inventor :

1)ALI, Talal

2)ALYASSER, Nabil

3)ALZENAI, Ahmed S.

(57) Abstract :

Systems and methods for producing light olefins and BTX are disclosed. A feed stream comprising mixed C4 paraffins is first separated into a first stream comprising primarily isobutane, and a second stream comprising primarily n-butane. The first stream is processed in a catalytic cracking unit and the second stream is processed in a steam cracking unit. The resulting streams from the catalytic cracking unit and the steam cracking unit are separated to form product streams including an ethylene stream, a propylene stream, and a BTX stream.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004482 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SELECTIVE OXIDATION CATALYST AND A METHOD FOR OXIDIZING C2 HYDROCARBONS IN THE PRESENCE OF THE SELECTIVE OXIDATION CATALYST

(51) International classification	:B01J0037020000, B01D0053940000, B01J0035000000, B01J0023000000, B01J0037080000	(71)Name of Applicant : 1)SABIC GLOBAL TECHNOLOGIES B.V. Address of Applicant :Plasticslaan 1 4612 PX Bergn Op Zoom Netherlands
(31) Priority Document No	:62/732505	(72)Name of Inventor :
(32) Priority Date	:17/09/2018	1)GOPAL, Srikant
(33) Name of priority country	:U.S.A.	2)AL-SMARI, Turki
(86) International Application No	:PCT/IB2019/057813	
Filing Date	:17/09/2019	
(87) International Publication No	:WO 2020/058843	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods of producing a catalyst for oxidation of C2 hydrocarbons and methods of using the catalyst are disclosed. Molybdenum, vanadium, and niobium metal or metal containing compounds are used to form a slurry in water. After agitating the slurry for at least 15 minutes, palladium or a palladium containing compound is added to the slurry. After further agitation, a precipitate is collected, dried and calcined to obtain an active catalyst, with palladium primarily distributed on a surface of the catalyst. The active catalyst is capable of catalyzing the conversion of C2 hydrocarbons into acetic acid.

No. of Pages : 11 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004487 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ELECTRONIC DEVICE FOR IMPROVING SENSITIVITY OF SENSOR

(51) International classification	:G09F0009300000, G09G0003000000, G06F0003041000, G06F0003044000, H01Q0001220000	(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
(31) Priority Document No	:10-2018-0113901	(72) Name of Inventor :
(32) Priority Date	:21/09/2018	1)HER, Yongkoo
(33) Name of priority country	:Republic of Korea	2)SHIN, Sungyoung
(86) International Application No	:PCT/KR2019/012128	3)JUNG, Songhee
Filing Date	:19/09/2019	4)SHIN, Hyunchang
(87) International Publication No	:WO 2020/060217	5)YANG, Byungduk
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device, according to an embodiment of the present disclosure, comprises: a cover glass; a rear cover opposing the cover glass; a display panel exposed through the cover glass; a plurality of pixels disposed on the display panel; a plurality of wires electrically connected to the plurality of pixels; a light source disposed between the display panel and the rear cover; a lens disposed between the light source and the display panel, and refracting a light output from the light source; and a structure for passing the light output from the light source such that the light output from the light source has a specified pattern. The structure may be disposed between the lens and the cover glass. Other various embodiments as understood from the specification are possible.

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004491 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : N-ALKOXY AMINE BASED STABILIZER COMBINATIONS

(51) International classification :C08K0005320000,
C08K0005000000,
C08J0005180000,
A01G0009140000,
C08L0023040000
(31) Priority Document No :18188053.5
(32) Priority Date :08/08/2018
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2019/071270
Filing Date :07/08/2019
(87) International Publication No :WO 2020/030719
(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)SABO S.P.A.

Address of Applicant :Via Caravaggi 1 24040 Levate (BG)
Italy

(72)Name of Inventor :

1)COSTANTINI, Enrico

2)FENILI, Fabio

(57) Abstract :

The present invention relates to a composition at least comprising: A) a first N-alkoxy amine in a first amount; B) 3 wt.-% or more of a second N-alkoxy amine structurally different from the first N-alkoxy amine; and a balance to 100 of further constituents; wherein the amount of the first N-alkoxy amine is higher than the amount of the second N-alkoxy amine; wherein the molecular weight of the first N-alkoxy amine is less than the molecular weight of the second N-alkoxy amine; wherein the composition has a viscosity in the range from 15'000 to 70'000 mPas at 20 °C. The present invention relates further to a process of manufacturing an article, such as a foil, comprising said composition, an article comprising said composition and/or obtainable by said process, a mulch foil, a greenhouse and greenhouse foil comprising said article, an article comprising a coating comprising said composition, a process for producing plants wherein said article is employed and a use of said composition as a UV stabilizer and/or flame retardant.

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004498 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND APPARATUS FOR CONTROLLING SIDELINK QOS

(51) International classification	:H04W0028020000, H04W0088040000, H04W0072040000, H04L0012240000, H04W0076150000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :SE-164 83 Stockholm Sweden
(31) Priority Document No	:PCT/CN2018/100024	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)ZHANG, Congchi
(33) Name of priority country	:China	2)BELLESCHI, Marco
(86) International Application No	:PCT/EP2019/071457	3)ZHANG, Zhang
Filing Date	:09/08/2019	4)LI, Yunxi
(87) International Publication No	:WO 2020/030793	
(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 generally relates to wireless communication technology. More particularly, it relates to a method and apparatus for controlling sidelink (SL) Quality of Service (QoS). According to one or more embodiments, a method for controlling sidelink (SL) Quality of Service (QoS) comprising the following steps carried out at a User Equipment (UE): a) generating QoS requirement from characteristics for one or more packets to be transmitted via a sidelink; b) determining bearer configuration corresponding to the QoS requirement; and c) performing SL transmission on the basis of the bearer configuration.

No. of Pages : 36 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004505 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : IONOMER COMPOSITIONS

(51) International classification :C08K0005090000,
C08L0023080000,
C08J0005180000,
B32B0027320000,
C08G0018480000

(31) Priority Document No :62/712525
(32) Priority Date :31/07/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/041801
Filing Date :15/07/2019
(87) International Publication No :WO 2020/028023
(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)PERFORMANCE MATERIALS NA, INC.
Address of Applicant :2211 H.H. Dow Way Midland,
Michigan 48674 U.S.A.
(72)**Name of Inventor :**
1)JIANG, Xian

(57) Abstract :

Described in embodiments herein are ionomers comprising a neutralized blend of an ethylene acid copolymer, an aliphatic and a mono-functional organic acid. The blend includes from 40 wt% to 95 wt% of the ethylene acid copolymer, from 5 to 50 wt% of the aliphatic, mono-functional organic acid, based on the total weight of the blend. The ethylene acid copolymer is the polymerized reaction product of ethylene, from 1 to 25 wt% of monocarboxylic acid and from 1 to 40 wt% of alkyl acrylate, based on the total weight of the monomers present in the ethylene acid copolymer. The aliphatic, mono-functional organic acid has fewer than 36 carbon atoms. In various embodiments, at least 70 mole % of total acid units are neutralized with both a trivalent cation and either a mono- or di-valent cation.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004512 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHODS OF MAKING MOFS, SYSTEMS FOR SYNTHESIZING MOFS, AND METHODS OF COATING TEXTILES WITH MOFS

(51) International classification :D06M0013352000,
C07F0003060000,
D06M0013203000,
C07F0001080000,
C07F0007000000

(31) Priority Document No :62/700576
(32) Priority Date :19/07/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/042586
Filing Date :19/07/2019
(87) International Publication No :WO 2020/018897
(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)UNIVERSITY OF VIRGINIA PATENT FOUNDATION
Address of Applicant :722 Preston Avenue Suite 107
Charlottesville, Virginia 22903 U.S.A.
(72)**Name of Inventor :**
1)GIRI, Gaurav
2)HUELSENBECK, Luke

(57) Abstract :

A method of synthesis of metal organic frameworks (MOFs) includes preparing a metal solution by dissolving at least one metal salt in an aqueous solution and buffering the metal solution with a base to achieve a first pH, the metal solution optionally comprising an organic co-solvent, preparing a linker solution by adding at least one organic acid linker and at least one base to an aqueous solution, and mixing the metal solution and the linker solution to produce the MOFs. The at least one organic acid linker has an ability to be protonated or deprotonated in response to a second pH, and the mixture of the metal solution and the linker solution has a third pH value, where the third pH value is greater than a highest pKa of the organic acid linker. The MOFs may be applied to a textile.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004513 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FIRST NODE, SECOND NODE, THIRD NODE, AND METHODS PERFORMED THEREBY FOR MANAGING DATA IN A DATABASE IN A COMMUNICATIONS NETWORK

(51) International classification :G06F0016270000,
H04L0012240000,
H04L0029080000,
H04L0012260000,
H04L0029060000

(31) Priority Document No :18382620.5

(32) Priority Date :20/08/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2018/077753
Filing Date :11/10/2018

(87) International Publication No :WO 2020/038590

(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 :SE-164 83 Stockholm Sweden

(72)**Name of Inventor :**
1)BARTOLOM% RODRIGO, Maria Cruz
2)FERRARO ESPARZA, Victor

(57) Abstract :

A method, performed by a first node (111), for managing data in a database (115) in a communications network (100) is described. The first node (111) operates in the communications network (100). The first node (111) receives(302) a request from a second node (112) operating in the communications network (100). The request is to modify an authorization to manage the data. The request is received as a service operation of a set of service operations provided by a service of the database (115). The first node (111) provides(303) a response to the second node (112) based on the received request, and further based on the authorization as defined by a third node (113) operating in the communications network (100). The first node (111) is a service producer of the database (115), the second node (112) is a service consumer, and the third node (113) is an initial provisioner of the authorization.

No. of Pages : 31 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004514 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : USE OF A CLAY FOR PRODUCING A POZZOLANIC MATERIAL

(51) International classification	:C04B0007120000, C04B0033320000, C04B0103000000, C04B0014100000, G02F0001133300	(71) Name of Applicant : 1)VICAT Address of Applicant :Tour Manhattan 6 place de l'Iris 92095 PARIS LA DEFENSE France
(31) Priority Document No	:1857273	(72) Name of Inventor :
(32) Priority Date	:03/08/2018	1)MARTINAGE, Olivier
(33) Name of priority country	:France	2)HUE, François
(86) International Application No	:PCT/EP2019/070860	
Filing Date	:02/08/2019	
(87) International Publication No	:WO 2020/025783	
(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 the use of a clay comprising: - less than 25% kaolinite; and - at least 20% muscovite and/or illite; in which - the weight ratio of muscovite and/or illite/kaolinite is greater than 1; in the preparation of a pozzolanic material.

No. of Pages : 14 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004534 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CODE GENERATION DEVICE

(51) International classification :G06F0003041000,
G06K0019067000,
G06K0019040000,
G06F0003044000,
G06F0003048800

(31) Priority Document No :2018-126428
(32) Priority Date :02/07/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/026392
Filing Date :02/07/2019
(87) International Publication No :WO 2020/009131
(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)I.P SOLUTIONS, LTD.
Address of Applicant :1-44-2 Kandajimbocho, Chiyoda-ku,
Tokyo 1010051 Japan
(72)**Name of Inventor :**
1)YOSHIDA, Kenji

(57) Abstract :

The present invention addresses the problem of using a large quantity of code generation devices configured so that the code generation devices can be identified. A device that is brought into contact or substantially into contact with a touch panel connected to a first information processing device, and having a plurality of electrodes that are detected by changes in physical quantities sensed by the touch panel disposed on the bottom surface of a case, wherein the device is configured so that the case, which is formed from a conductive material connected to the plurality of electrodes, is provided with the first information processing device, which recognizes electrode codes formed by electrodes detected by the touch panel among the plurality of electrodes, and a communication processing unit which enters a connected state on the basis of at least some of the electrode codes.

No. of Pages : 177 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004536 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHODS AND SYSTEMS FOR DEFINED AUTONOMOUS SERVICES

(51) International classification :G05D0001020000,
G06Q0050300000,
G08G0001000000,
G05D0001000000,
G06Q0010060000

(31) Priority Document No :62/696827

(32) Priority Date :11/07/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/041498
Filing Date :11/07/2019

(87) International Publication No :WO 2020/014549

(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)JACOB MIZRAHI

Address of Applicant :421 8th Avenue, #8379 New York, NY
10116 U.S.A.

(72)Name of Inventor :

1)JACOB MIZRAHI

(57) Abstract :

Whereas various embodiments relate of methods and systems used to provide for autonomous (self-functioning) on-demand services that transports people, products, and/or services from and to specific location(s), and at specific time(s) that are pre-defined within a specific geographically boundary. The Defined Autonomous Services Platform (DASP), creates, manages and executes a pre-planned (or set of) program(s) whereby an autonomous robot or fleet of autonomous robots that can consist of one or many Passenger Vehicle, Delivery Van, Commercial Truck, Robot Unit, UAV, Drone, or other machine unit navigates land-based and/or aerial-based and/or maritime-based pre-defined route(s) within a geographical boundary, and perform a defined task or set of defined tasks completely in an automated way that requires no end-user intervention and adheres to religious use-cases for a person being Shomer and adhering to guidelines in observing Sabbath (also know as Shabbos in Yiddish, Shabbat/Shabbat in Hebrew) or observing Holidays under Orthodox Jewish law.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004539 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RETAINER FOR CLAMP ASSEMBLY

(51) International classification	:F16M0011040000, F16B0002060000, A61B0017220000, F02K0001800000, H05K0007140000
(31) Priority Document No	:62/715672
(32) Priority Date	:07/08/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/045434
Filing Date	:07/08/2019
(87) International Publication No	:WO 2020/033497
(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)IDEAL CLAMP PRODUCTS, INC.
Address of Applicant :8100 Tridon Drive Smyrna, Tennessee
37167 U.S.A.
(72)**Name of Inventor :**
1)KOEHLER, Edwin T.
2)SMITH, Joshua B.

(57) Abstract :

Clamp assemblies and associated methods are disclosed. According to one aspect, a clamp assembly may comprise a shell, a tensioning mechanism, and a retainer. The shell includes a pair of segments sized to be positioned over a joint connection, with the pair of segments being moveable between an open position and a contracted position. The tensioning mechanism is operable to tighten the pair of segments and includes a threaded shaft extending through a segment opening defined in a first segment of the pair of segments. The retainer is coupled with the first segment and includes a first cantilevered flange configured to engage the threaded shaft to retain the threaded shaft in position relative to the first segment.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004540 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PESTICIDES AND METHODS OF USE THEREOF

(51) International classification	:A01N0025040000, A01M0001140000, A01N0037020000, C23C0018160000, G01N0001400000	(71) Name of Applicant : 1)ATTUNE AGRICULTURE LLC Address of Applicant :751 Park of Commerce Drive, Suite 106 Boca Raton, Florida 33487 United States of America U.S.A.
(31) Priority Document No	:62/714461	(72) Name of Inventor :
(32) Priority Date	:03/08/2018	1)ANDON, Gregory, C.
(33) Name of priority country	:U.S.A.	2)QUATTLEBAUM, Edwin
(86) International Application No	:PCT/US2019/044855	3)AKINS, Maureen, L.
Filing Date	:02/08/2019	
(87) International Publication No	:WO 2020/028779	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention described herein is that of novel pesticides for aerial field application with low toxicity and environmental impact. The invention leverages the physical characteristics of hydrocolloids - particularly gums and preferably natural gums - to reduce to practice the sprayable pesticide formulation described herein. The rheological properties of the pesticides allow exit from industrial spray nozzles under pressure and subsequent coalescence of fine droplets into droplets of sufficient size and adhesiveness act as sticky traps for small insects that encounter the droplets on the target foliage. The pesticides are unique in the sense that they do not include environmentally harmful chemicals and are not harmful to ecosystems and life. Rather, the pesticides of the present invention trap target pests such as small soft-bodied insects and arachnids in place such that they become immobilized eventually die.

No. of Pages : 53 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004541 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DIRECTIONAL SCALING SYSTEMS AND METHODS

(51) International classification	:G06T0003400000, G06T0005000000, H04N0019523000, H04N0001405000, G09G0005000000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014 U.S.A.
(31) Priority Document No	:16/053360	(72) Name of Inventor :
(32) Priority Date	:02/08/2018	1)CHOU, Jim C.
(33) Name of priority country	:U.S.A.	2)GONG, Yun
(86) International Application No	:PCT/US2019/043322	
Filing Date	:24/07/2019	
(87) International Publication No	:WO 2020/028123	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device may include scaling circuitry to scale input pixel data to a greater resolution. The directional scaling circuitry may include first interpolation circuitry to receive best mode data, including one or more angles corresponding to content of the image and interpolate first pixel values at first pixel positions diagonally offset from input pixel positions of the input pixel data based on the best mode data and input pixel values corresponding to the input pixel positions. The directional scaling circuitry may also include second interpolation circuitry to receive the best mode data and the input pixel values and interpolate second pixel values at second pixel positions horizontally or vertically offset from the input pixel positions based at least in part on the best mode data and the input pixel values.

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004544 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ORDERING MEMORY REQUESTS BASED ON ACCESS EFFICIENCY

(51) International classification	:G06F0013160000, G06F0003060000, G11C0029440000, G11C0007100000, G06F0012089700	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, CA 95014 U.S.A.
(31) Priority Document No	:16/112624	(72) Name of Inventor :
(32) Priority Date	:24/08/2018	1)KEIL, Shane, J.
(33) Name of priority country	:U.S.A.	2)MATHEWS, Gregory, S.
(86) International Application No	:PCT/US2019/047807	3)NUKALA, Lakshmi Narasimha Murthy
Filing Date	:23/08/2019	4)MAGUDILU VIJAYARAJ, Thejasvi
(87) International Publication No	:WO 2020/041649	5)HSIUNG, Kai Lun
(61) Patent of Addition to Application Number	:NA	6)LIU, Yanzhe
Filing Date	:NA	7)BISWAS, Sukalpa
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An embodiment of an apparatus includes a memory circuit and a memory controller circuit. The memory controller circuit may include a write request queue. The memory controller circuit may be configured to receive a memory request to access the memory circuit and determine if the memory request includes a read request or a write request. A received read request may be scheduled for execution, while a received write request may be stored in the write request queue. The memory controller circuit may reorder scheduled memory requests based on achieving a specified memory access efficiency and based on a number of write requests stored in the write request queue.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004546 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MULTIPLEX DETECTION OF NUCLEIC ACIDS

(51) International classification	:C12Q0001681800, C12Q0001684800, C12Q0001685300, C12Q0001681300, C12Q0001685800	(71) Name of Applicant : 1)SPEEDX PTY LTD Address of Applicant :Suite G16, National Innovation Centre Australian Technology Park 4 Cornwallis Street Eveleigh, New South Wales 2015 Australia
(31) Priority Document No	:2018902915	(72) Name of Inventor :
(32) Priority Date	:09/08/2018	1)HASICK, Nicole Jane
(33) Name of priority country	:Australia	2)KIM, Ryung Rae
(86) International Application No	:PCT/IB2019/056811	3)LAWRENCE, Andrea Lee
Filing Date	:09/08/2019	4)TODD, Alison Velyian
(87) International Publication No	:WO 2020/031156	
(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 oligonucleotides and methods for their use in the detection and/or differentiation of target nucleic acids. The oligonucleotides and methods find particular application in amplifying, detecting, and/or discriminating multiple targets simultaneously.

No. of Pages : 145 No. of Claims : 81

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004552 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY TARGETING FLT3, PD-1, AND/OR PD-L1

(51) International classification	:C07K0016280000, C07K0014725000, A61K0039000000, C07K0014705000, A61K0039395000	(71) Name of Applicant : 1)CYTOIMMUNE THERAPEUTICS, INC. Address of Applicant :Corporation Service Company 251 Little Falls Drive Wilmington, DE 19808 U.S.A.
(31) Priority Document No	:62/693977	(72) Name of Inventor :
(32) Priority Date	:04/07/2018	1)YU, Jianhua
(33) Name of priority country	:U.S.A.	2)CALIGIURI, Michael
(86) International Application No	:PCT/US2019/040654	
Filing Date	:03/07/2019	
(87) International Publication No	:WO 2020/010284	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

CAR cells targeting FLT3 antigens in combination with a secreted anti -PD-1 and anti-PD-L1 antibodies or anti-PD-1-anti-PD-L1 bispecific antibodies are described as a new method of cancer treatment. It is proposed that these combination therapies are safe and effective in patients and can be used to treat human tumors and cancer.

No. of Pages : 144 No. of Claims : 70

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004563 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR AUDITING WASTEWATER TREATMENT PLANT PARAMETERS

(51) International classification	:G06F0021560000, F24F0110000000, G01M0099000000, G01R0031500000, F24F0011300000	(71) Name of Applicant : 1)SEMBCORP INDUSTRIES LTD Address of Applicant :30 Hill Street #05-04 Singapore 179360 Singapore
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)YUEN, Woh Peng Aaron
(33) Name of priority country	:NA	2)NI, Wangdong
(86) International Application No	:PCT/SG2019/050351	3)SIM, Kwee Hock
Filing Date	:19/07/2019	4)GAYAKWAD, Nilesh Patil
(87) International Publication No	:WO 2021/015662	5)HUI, Cheng Mun Jasmine
(61) Patent of Addition to Application Number	:NA	6)WU, Mengting
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system for auditing one or more wastewater treatment plant parameters including an input interface configured to receive an input dataset associated with a plurality of sensors; a processor configured to determine whether each of the plurality of sensors is within normal operating condition; wherein the input dataset includes a measurement value of a first sensor of the plurality of sensors, and a status of a second sensor of the plurality of sensors; and wherein the processor comprises a sensor fault detection module; a wastewater effluent parameter check module; a wastewater effluent quality check module; and an operation reconciliation module.

No. of Pages : 19 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004564 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FIRING SYSTEM FOR LINEAR SURGICAL STAPLER

(51) International classification	:A61B0017000000, A61B0017072000, A61B0090000000, A61B0017280000, A61B0017068000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo 00969 U.S.A.
(31) Priority Document No	:16/102164	(72) Name of Inventor :
(32) Priority Date	:13/08/2018	1)DECK, Andrew C.
(33) Name of priority country	:U.S.A.	2)JONES, Jason
(86) International Application No	:PCT/IB2019/056697	3)BAKOS, Gregory J.
Filing Date	:06/08/2019	4)SCHINGS, Brian D.
(87) International Publication No	:WO 2020/035762	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A surgical stapler includes a first elongate member, a second elongate member, and a clamp member operable to releasably clamp the first elongate member against the second elongate member. A distal portion of the first elongate member supports an anvil surface having a plurality of staple forming pockets. A distal portion of the second elongate member is configured to receive a staple cartridge. A firing assembly of the surgical stapler is translatable from a first longitudinal position to a second longitudinal position to fire the staple cartridge when the first elongate member is clamped against the second elongate member. A retaining assembly of the surgical stapler includes a first retaining member configured to releasably couple a proximal end of the first elongate member with a proximal end of the second elongate member, and a second retaining member configured to releasably retain the firing assembly in the first longitudinal position.

No. of Pages : 50 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004565 A

(19) INDIA

(22) Date of filing of Application :02/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CLAMPING ASSEMBLY FOR LINEAR SURGICAL STAPLER

(51) International classification	:A61B0017072000, A61B0017000000, A61B0090000000, A61B0017290000, A61B0017068000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, USA, 00969 U.S.A.
(31) Priority Document No	:16/102170	(72) Name of Inventor :
(32) Priority Date	:13/08/2018	1)DECK, Andrew C.
(33) Name of priority country	:U.S.A.	2)SCHINGS, Brian D.
(86) International Application No	:PCT/IB2019/056698	3)JONES, Jason
Filing Date	:06/08/2019	4)BAKOS, Gregory J.
(87) International Publication No	:WO 2020/035763	5)NORVELL, David K.
(61) Patent of Addition to Application Number	:NA	6)SCHALL, Christopher J.
Filing Date	:NA	7)UTH, Joshua
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A surgical stapler includes a first elongate member having a distal portion that supports an anvil surface, and a second elongate member having a distal portion configured to receive a staple cartridge. The stapler further includes a pin rotatably coupled with the first elongate member, and a clamp member movably coupled with the second elongate member. The clamp member is operable to releasably capture the pin to thereby clamp the first elongate member against the second elongate member. The pin is configured to rotate relative to the first elongate member in response to being captured by the clamp member.

No. of Pages : 56 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004566 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : STRUCTURAL MEMBER FOR AUTOMOBILES AND VEHICLE BODY

(51) International classification :B62D0025040000,
H01R0013420000,
H01R0004180000,
B62D0021000000,
B60N0002580000

(31) Priority Document No :2018-131892
(32) Priority Date :11/07/2018
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2019/027613
Filing Date :11/07/2019
(87) International Publication No :WO 2020/013303
(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)NIPPON STEEL CORPORATION

Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku,
Tokyo 1008071 Japan

(72)Name of Inventor :

1)ITO, Yasuhiro

(57) Abstract :

This structural member for automobiles has a first wall part, a second wall part which faces the first wall part, and a third wall part which connects the first wall part and the second wall part to each other. At least one of the first wall part and the second wall part has: a main wall part which is provided with two through holes; and at least two auxiliary wall parts which are formed so as to stand on the main wall part. Each auxiliary wall part is formed so as to stand on the rim of a through hole in the thickness direction of the main wall part. The distance between the two auxiliary wall parts in the longitudinal direction of the main wall part is 1.4 times or less the width of the main wall part between the two auxiliary wall parts.

No. of Pages : 59 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004572 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RADIATION CURABLE INKJET INKS

(51) International classification	:C09D0011322000, B41M0005000000, C09D0011101000, C09K0019540000, C08F0002480000	(71) Name of Applicant : 1)AGFA NV Address of Applicant :Septestraat 27 2640 Mortsel Belgium
(31) Priority Document No	:18188386.9	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)COURTET, Vincent
(33) Name of priority country	:EPO	2)LENAERTS, Jens
(86) International Application No	:PCT/EP2019/071162	3)LI, Yiru
Filing Date	:07/08/2019	4)RETAILLEAU, Matthieu
(87) International Publication No	:WO 2020/030664	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A radiation curable white inkjet ink including at least 18.5 wt% of white pigment and 0 to 35 wt% of organic solvent, both weight percentages based on the total weight of the radiation curable white inkjet ink and a polymerizable composition containing 0 to 15.0 wt% of one or more polyfunctional polymerizable compounds, and at least 85.0 wt% of one or more monofunctional polymerizable compounds; and a specific polymerizable composition.

No. of Pages : 53 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004583 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM FOR PRODUCING ELECTRICAL ENERGY

(51) International classification	:H02K0053000000, H02J0009080000, H02J0015000000, B01F0015000000, B66B0011040000	(71)Name of Applicant : 1)MAROC CONTENEURS INTERNATIONALES Address of Applicant :BD Moluay Youssef, 2 ^{me} tage, appartement n 5 Casablanca MORACCO 2)MARRAKCHI, Yassir 3)GUIDUCCI, Valter
(31) Priority Document No	:42858	(72)Name of Inventor : 1)MARRAKCHI, Yassir 2)GUIDUCCI, Valter
(32) Priority Date	:03/07/2018	
(33) Name of priority country	:MORACCO	
(86) International Application No	:PCT/MA2018/000016	
Filing Date	:26/10/2018	
(87) International Publication No	:WO 2020/009557	
(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 installation for producing energy, the method of operation of which operates in closed-circuit, comprising a wheel (2) which converts the energy supplied by the air compressor (1) into mechanical energy transmitted to a speed-multiplying transmission system (3), such as a set of gear wheels, belt and pulley, in order to increase the rotational speed from 100 rpm to 1500 rpm so as to spin an alternator (4) which, in its turn, converts the mechanical energy into electrical energy to power the pumps (5) to spin the turbines (9) which converts the energy supplied by the falling water into mechanical energy transmitted to a belt and pulley or gearset or else multiplier transmission system (10) in order to increase the rotational speed from 50 rpm to 1500 rpm so as to spin connected alternators (11) with a total power of 600 kVA to 2500 kVA.

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

(54) Title of the invention : OTSU-GRAM USING DELAYED MEMORY MATRIX

(51) International classification	:H04L0001180000, C09K0008680000, B41J0002045000, G06N0003080000, G11C0007220000	(71) Name of Applicant : 1)NIITSUMA Hirotaka Address of Applicant :RE504, Okadai-Minami-Shukusha, 1-2, Tshushima-naka, Kita-ku, Okayama-shi, Okayama 7000082 Japan
(31) Priority Document No	:2018-126430	(72) Name of Inventor : 1)NIITSUMA Hirotaka
(32) Priority Date	:03/07/2018	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2019/025992	
Filing Date	:29/06/2019	
(87) International Publication No	:WO 2020/009045	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

We propose an otsu-gram that automatically selects appropriate features, solving the 5 problem that n must be adjusted by craftsmen in n-grams, which are often used as features of time series data in natural language processing. Applying correspondence analysis to this feature set, we can calculate word variance representation. This word variance representation is much more accurate than the conventional methods word2vec and fastText. However, the computation of these features and the word variance 10 representation requires a very large amount of memory, making the computation difficult. The problem of having to adjust the n of n-grams in an artisanal way was solved by adjusting the n using Otsu's binarization. The part of the feature calculation that requires a large amount of memory was made into a lazy evaluation, allowing the calculation to be done with less memory. We also propose a method of storing a portion of the data on disk for faster 15 computation with less memory. This method of improving memory efficiency is a technique that can be applied to a wide range of other sparse matrix operations.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004585 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMPOUNDS FOR USE IN THE TREATMENT OF FASCIOLIASIS

(51) International classification	:A61K0031422000, A61K0031427000, C07C0271280000, C07D0295135000, C07C0233780000	(71) Name of Applicant : 1)MERCK PATENT GMBH Address of Applicant :Frankfurter Str. 250 64293 Darmstadt Germany
(31) Priority Document No	:1811695.4	(72) Name of Inventor :
(32) Priority Date	:17/07/2018	1)GARDNER, John Mark Francis
(33) Name of priority country	:U.K.	2)BELL, Andrew Simon
(86) International Application No	:PCT/EP2019/069134	
Filing Date	:16/07/2019	
(87) International Publication No	:WO 2020/016235	
(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 compounds of formula (1a), (1b), (1c), (1d) or (1e) and pharmaceutically acceptable salts or solvates thereof for use in the treatment or prevention of fascioliasis. Some of these compounds are novel per se and also have activity as inhibitors of Schistosoma growth. The invention also relates to pharmaceutical compositions comprising such novel compounds, salts or solvates and to the use of such novel compounds as medicaments, in particular in the treatment or prevention of schistosomiasis, also known as bilharzia.

No. of Pages : 79 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004586 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

(51) International classification	:H04W0076150000, H04W0008220000, H04W0088060000, H04W0036000000, H04W0076270000	(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
(31) Priority Document No	:201810923161.6	(72) Name of Inventor :
(32) Priority Date	:14/08/2018	1)YANG, Ning
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/100507	
Filing Date	:14/08/2019	
(87) International Publication No	:WO 2020/034978	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a communication method, a terminal device and a network device. The method comprises that: the terminal device obtains indicating information, the indicating information is transmitted to the terminal device from a core network device, or the indicating information is pre-configured on the terminal device; the indicating information is used for indicating the terminal device to be communicated with a network side through an access network device corresponding to a first radio access technology RAT, wherein the core network device is connected with the access network device corresponding to at least two RATs; the terminal device supports the at least two RATs; and the at least two RATs include the first RAT; and the terminal device uses the access network device corresponding to the first RAT to be communicated with the network side. According to the communication method, the terminal device and the network device provided by the embodiment of the present application, when the terminal device is accessed to the same core network device by the access network devices corresponding to a plurality of RATs, the communication between the terminal device and the network side can be implemented, and the communication flexibility of the terminal device and the network side can be improved.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004602 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMPOSITIONS FOR THE TREATMENT OF HYPERTENSION

(51) International classification	:A61K0031442200, A61K0031549000, A61K0031417800, A61K0031403500, A61K0031418400	(71) Name of Applicant : 1)THE GEORGE INSTITUTE FOR GLOBAL HEALTH Address of Applicant :Level 5, 1 King Street Newtown, Sydney, 2042 Australia
(31) Priority Document No	:62/703802	(72) Name of Inventor :
(32) Priority Date	:26/07/2018	1)MACMAHON, Stephen
(33) Name of priority country	:U.S.A.	2)RODGERS, Anthony
(86) International Application No	:PCT/IB2019/000923	
Filing Date	:26/07/2019	
(87) International Publication No	:WO 2020/021341	
(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 pharmaceutical compositions that are useful for the treatment of hypertension comprising an angiotensin II receptor blocker, a diuretic, and a calcium channel blocker.

No. of Pages : 108 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004618 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND DEVICE APPLICABLE TO USER EQUIPMENT UNIT AND BASE STATION FOR WIRELESS COMMUNICATION

(51) International classification	:H04L0005000000, H04W0072040000, H04L0027260000, H04W0036000000, H04W0088020000	(71) Name of Applicant : 1)SHANGHAI LANGBO COMMUNICATION TECHNOLOGY COMPANY LIMITED Address of Applicant :Room A2117, Building B No. 555, East Chuan Road, Minhang District Shanghai 200240 China
(31) Priority Document No	:201810770266.2	(72) Name of Inventor :
(32) Priority Date	:13/07/2018	1)WU, Keying
(33) Name of priority country	:China	2)ZHANG, Xiaobo
(86) International Application No	:PCT/CN2019/094667	3)YANG, Lin
Filing Date	:04/07/2019	
(87) International Publication No	:WO 2020/011092	
(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 discloses a method and a device applicable to a user equipment unit and base station for wireless communication. The method comprises: a user equipment unit sending a first wireless signal indicating a first reference signal from among M reference signals; and performing detection for first signaling in each of W time-frequency resource blocks separately, wherein at least one of the M reference signals is sent by a first serving cell, the first serving cell is not added by the user equipment unit, the user equipment unit assumes that a transmission antenna port of the first signaling and a transmission antenna port of the first reference signal are quasi co-located, W is a positive integer, and M is a positive integer greater than 1. The method prevents delays or service interruption caused by inter-cell handover.

No. of Pages : 77 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004619 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : BUBBLE SHELL-AND-TUBE APPARATUS

(51) International classification	:B01J0008060000, F28D0007160000, B01J0008000000, F28F0009020000, B01D0001060000	(71) Name of Applicant : 1)PUBLIC JOINT STOCK COMPANY SIBUR HOLDING Address of Applicant :Eastern Industrial Area, block 1, No. 6, building 30 Tobolsk, Tyumen Region, 626150 Russia
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KONKOV, Oleg Alexandrovich
(33) Name of priority country	:NA	2)LIPSKIKH, Maxim Vladimirovich
(86) International Application No	:PCT/RU2018/000590	
Filing Date	:06/09/2018	
(87) International Publication No	:WO 2020/050738	
(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 equipment for gas-liquid processes. Bubble shell-and-tube apparatus comprises at least one vertical shell-and-tube unit formed as a housing with reagent feed devices and reaction product withdrawal devices, heat transfer agent feed and withdrawal devices, and a first tube group and a second tube group that are secured in an upper tube sheet and a lower tube sheet. Tubes of the first tube group extend beyond the lower tube sheet, and tubes of the second tube group are arranged such that their ends substantially flush with lower tube sheet, the tubes of the first tube group being distributed substantially uniformly over the tube sheet. When implementing a method for carrying out chemical reactions in a bubble shell-and-tube apparatus according to the invention, the tubes of the first tube group act as circulation tubes, while the tubes of the second tube group act as bubble tubes (Fig. 6).

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004625 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ISOCYANATE-GROUP-CONTAINING POLYMER HAVING A LOW CONTENT OF MONOMERIC DIISOCYANATES

(51) International classification	:C08G0018480000, C08G0018100000, C08G0018750000, C08G0018760000, C08G0018660000	(71) Name of Applicant : 1)SIKA TECHNOLOGY AG Address of Applicant :Zugerstrasse 50 6340 Baar Switzerland
(31) Priority Document No	:18187905.7	(72) Name of Inventor :
(32) Priority Date	:08/08/2018	1)Berzad Durmic
(33) Name of priority country	:EPO	2)Michael Schlumpf
(86) International Application No	:PCT/EP2019/071051	3) Sven Reimann
Filing Date	:05/08/2019	
(87) International Publication No	:WO 2020/030608	
(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 isocyanate group-containing polyether urethane polymer having an NCO content in the range from 1.3 to 1.9 wt% and a content of monomeric diisocyanates of not more than 0.5 wt%, derived from the reaction of at least one monomeric aromatic diisocyanate and a polyether triol having an average OH functionality in the range from 2.2 to 2.6, an OH number in the range from 25 to 32 mg KOH/g in an NCO/OH ratio of at least 3:1 and subsequent removal of a majority of the monomeric diisocyanates by means of a suitable separation process, and moisture-curing polyurethane compositions having a content of monomeric diisocyanates of less than 0.1 wt% containing said polymer. The polymer according to the invention allows very storage-stable moisture-curing polyurethane compositions, which are safe to handle even without special protective measures, are easy to process, have a long open time, cure rapidly to provide an elastic material of high extensibility and elasticity with high strength, high tear propagation resistance, good low-temperature flexibility, good adhesion properties and high resistance, in particular with respect to heat and UV radiation. Such polyurethane compositions are in particular suitable as elastic adhesives, sealants, and coatings.

No. of Pages : 44 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004631 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR FACILITATING INSTRUMENT DELIVERY THROUGH A PERIPHERAL INTRAVENOUS CATHETER

(51) International classification	:A61M0025060000, A61M0025000000, A61M0039060000, A61B0005150000, A61M0005140000	(71) Name of Applicant : 1)BECTON, DICKINSON AND COMPANY Address of Applicant :1 Becton Drive Franklin Lakes, New Jersey 07417 U.S.A.
(31) Priority Document No	:62/699520	(72) Name of Inventor :
(32) Priority Date	:17/07/2018	1)HU, Olivia
(33) Name of priority country	:U.S.A.	2)MA, Yiping
(86) International Application No	:PCT/US2019/041938	3)BLANCHARD, Curtis H
Filing Date	:16/07/2019	4)BURKHOLZ, Jonathan Karl
(87) International Publication No	:WO 2020/018497	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system for facilitating instrument delivery through a peripheral intravenous catheter may include a catheter adapter having a proximal end, a distal end, and a lumen extending there through. The catheter adapter may include a side port. The system may include an extension tube extending from the side port. The system may include a blood control valve disposed in the lumen of the catheter adapter. The system may include a peripheral intravenous catheter extending distally from the catheter adapter.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004637 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DECORATED LEATHER MANUFACTURING

(51) International classification :C09D0011101000,
C09D0011322000,
B41M0005000000,
B41M0007000000,
C09D0011380000

(31) Priority Document No :18188385.1

(32) Priority Date :10/08/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/071167
Filing Date :07/08/2019

(87) International Publication No :WO 2020/030668

(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)AGFA NV

Address of Applicant :Septestraat 27 2640 Mortsel Belgium

(72)Name of Inventor :

1)COURTET, Vincent

2)LENAERTS, Jens

3)LI, Yiru

(57) Abstract :

A manufacturing method for decorating natural leather including the steps of: jetting a decorative image with one or more radiation curable inkjet inks on a leather surface; and curing the radiation curable inkjet inks jetted on the leather surface; wherein the one or more radiation curable inkjet inks include a colorant and a polymerizable composition containing 0 to 15.0 wt% of one or more polyfunctional polymerizable compounds and at least 85.0 wt% of one or more monofunctional polymerizable compounds with the weight percentages based on the total weight of the polymerizable composition; wherein the one or more radiation curable inkjet inks include 0 to 35.0 wt% of organic solvent; and at least 85.0 wt% of one or more monofunctional polymerizable compounds; and wherein the glass transition temperature of the one or more radiation curable inkjet inks (I) is less than 25°C; and wherein one of the one or more radiation curable inkjet inks includes a white pigment in an amount of at least 17.5 wt% based on the total weight of the radiation curable inkjet ink.

No. of Pages : 58 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004643 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NON-DAIRY DRINK WITH RICE AND PEA PROTEINS

(51) International classification	:A23C0011100000, A23L0033000000, A61K0038000000, H01Q0001380000, A23L0002660000	(71) Name of Applicant : 1)SOCIETE DES PRODUITS NESTLE S.A. Address of Applicant :Avenue Nestl 55 1800 VEVEY Switzerland
(31) Priority Document No	:18194945.4	(72) Name of Inventor :
(32) Priority Date	:17/09/2018	1)CRAMER, Judith
(33) Name of priority country	:EPO	2)EGLI, Delphine
(86) International Application No	:PCT/EP2019/074833	3)JAGGI-KUYPERS, Danica, Anja
Filing Date	:17/09/2019	4)RAPP, Monika
(87) International Publication No	:WO 2020/058251	5)SALVATORE, Delphine, Bernadette
(61) Patent of Addition to Application Number	:NA	6)SANDERS, Constantijn, Ferdinand, Willem
Filing Date	:NA	7)VANCHERI, Herv
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a non-dairy drink comprising rice and pea proteins, such as to provide an appropriate nutritional profile and suitable taste.

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004649 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CLUTCH-BY-WIRE SYSTEM

(51) International classification	:G01C0019571200, B62D0005000000, G05G0001300000, G06F0003010000, F03B0017060000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan
(31) Priority Document No	:2018-151508	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)SHIMIZU Masahiro
(33) Name of priority country	:Japan	2)WAKAMATSU Kuniaki
(86) International Application No	:PCT/JP2019/020652	3)SHIOMI Yoshinobu
Filing Date	:24/05/2019	
(87) International Publication No	:WO 2020/031463	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This clutch-by-wire system is equipped with a lever body (60) to be operated by a passenger, a knocker (70) which engages the lever body (60) and rotates around an axis of rotation (O), a reactive force generation device (130) which engages the knocker (70) and causes the lever body (60) to generate an operation reactive force, and a rotation sensor for detecting the rotation angle of the knocker (70).

No. of Pages : 36 No. of Claims : 6

(54) Title of the invention : CLOTHING TREATING APPARATUS

(51) International classification	:D06F0058200000, B65D0085100000, F25D0023000000, H01M0002020000, B60K0023080000	(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	:62/711629	(72) Name of Inventor :
(32) Priority Date	:30/07/2018	1)CHOI, Junyoung
(33) Name of priority country	:U.S.A.	2)NAM, Wansik
(86) International Application No	:PCT/KR2019/009476	3)PARK, Sunghoo
Filing Date	:30/07/2019	4)PARK, Hyeyong
(87) International Publication No	:WO 2020/027542	
(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 clothing treating apparatus comprising: an outer case which includes a first opening formed at the front side thereof; an inner case which is provided inside the outer case and has a space formed therein to receive clothes; an inner case bottom surface which forms the bottom of the inner case; a first penetrating part which extends through the inner case bottom surface; and a first machinery room forming surface which forms a machinery room disposed under the inner case and separated from the inner case, and provides a holding surface that protrudes to enable a steam nozzle to be installed thereon.

No. of Pages : 21 No. of Claims : 13

(54) Title of the invention : CLOTHING TREATMENT APPARATUS

(51) International classification	:D06F0039120000, D06F0039080000, F25D0021040000, D06F0037260000, D06F0029000000	(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	:62/711629	(72) Name of Inventor :
(32) Priority Date	:30/07/2018	1)CHOI, Junyoung
(33) Name of priority country	:U.S.A.	2)NAM, Wansik
(86) International Application No	:PCT/KR2019/009498	3)PARK, Sunghoo
Filing Date	:30/07/2019	4)PARK, Hyeyong
(87) International Publication No	:WO 2020/027554	
(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 clothing treatment apparatus comprising: a cabinet having a first side panel and a second side panel which face each other, an upper panel and a lower panel which connect the first side panel and the second side panel and respectively form the upper surface and the bottom surface, and a rear panel which forms the rear surface; a first base having a front panel which is fixed to the first side panel, the second side panel, the upper panel, and the lower panel and forms the front surface of the cabinet, and an input hole which is provided to penetrate the front panel; a first chamber which is fixed to the front panel, is positioned in the cabinet, communicates with the input hole, and provides a space for accommodating clothes; a second base having a front frame which is positioned between the front panel and the rear panel, an upper frame which extends from the front frame towards the rear panel and is away from the bottom surface of the first chamber, a first side frame which is provided away from the first side panel, and a second side frame which is away from the second side panel; a second chamber which is formed by means of the front frame, the upper frame, the first side frame, the second side frame, the lower panel, and the second rear panel; a supply unit which is provided in the second chamber and supplies at least one of air and moisture into the first chamber; a door which opens and closes the input hole; a first hinge which connects the door to, in the space provided by the front panel, the space located above the input hole; a second hinge which connects the door to, in the space provided by the front panel, the space located under the input hole; a first hinge bracket which is fixed to the front panel, is located in the cabinet, and fixes the first hinge to the front panel; and a heat insulation unit formed by means of foaming plastic which is injected into a foam space formed between the cabinet, the first base, the first chamber, and the second base.

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004659 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CATHETER SYSTEM FOR IMPROVED FIRST STICK SUCCESS

(51) International classification	:A61M0025060000, A61M0025000000, A61M0005158000, A61M0039100000, A61L0029140000	(71) Name of Applicant : 1)BECTON, DICKINSON AND COMPANY Address of Applicant :1 Becton Drive Franklin Lakes, New Jersey 07417 U.S.A.
(31) Priority Document No	:16/032640	(72) Name of Inventor :
(32) Priority Date	:11/07/2018	1)NATESAN, Mohankumar
(33) Name of priority country	:U.S.A.	2)GUANG JOHN, Ong Xue
(86) International Application No	:PCT/US2019/037025	
Filing Date	:13/06/2019	
(87) International Publication No	:WO 2020/013947	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A pediatric catheter system may include a catheter adapter having a distal end, a proximal end, and a lumen extending therebetween. The system may include a catheter tube extending distally from the catheter adapter. The catheter tubing may be constructed of thermoplastic polyurethane for improved vein insertion success. The system may include a needle hub removably coupled to a proximal end of the catheter adapter and an introducer needle extending through the catheter tube. A proximal end of the introducer needle may be secured within the needle hub. The introducer needle may include a notch, which may also facilitate successful vein insertion. In response to insertion of the catheter tube into a vein of a patient, blood may flow into the introducer needle and out of the notch into a space disposed between an outer surface of the introducer needle and an inner surface of the catheter tube.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004667 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RANDOM ACCESS METHOD AND APPARATUS

(51) International classification	:H04W0074080000, H04L0027260000, H04W0072040000, H04L0005000000, H04W0076270000	(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
(31) Priority Document No	:201810846923.7	(72) Name of Inventor :
(32) Priority Date	:27/07/2018	1)XU, Weijie
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2019/097877	
Filing Date	:26/07/2019	
(87) International Publication No	:WO 2020/020335	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A random access method and apparatus, the method comprising: a terminal device sending a first message to a network device, the first message comprising a random access preamble and uplink information; the random access preamble occupies at least one first symbol in the time domain, and the uplink information occupies at least one second symbol in the time domain, wherein the one first symbol comprises a first cyclic prefix (CP) and at least one first information segment, and the one second symbol comprises a second CP and at least one second information segment. The random access method and apparatus of an embodiment of the present application may reduce signaling overhead during random access.

No. of Pages : 40 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004672 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ELECTRONIC APPARATUS AND CONTROL METHOD THEREOF

(51) International classification	:G06N0020000000, G06N0003080000, G06N0003040000, G06N0005040000, G06K0009660000	(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
(31) Priority Document No	:10-2018-0096867	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)KIM, Soofeel
(33) Name of priority country	:Republic of Korea	2)CHOI, Wonjong
(86) International Application No	:PCT/KR2019/010547	3)HAM, Jina
Filing Date	:20/08/2019	
(87) International Publication No	:WO 2020/040517	
(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 controlling an electronic apparatus is provided. The method includes obtaining a name referring to a user of another electronic apparatus in a chat with the user of the other electronic apparatus using an artificial intelligence (AI) model trained by an AI algorithm while conducting the chat with the user of the other electronic apparatus using the electronic apparatus; and storing the obtained name in association with contact information of the user of the other electronic apparatus. At least some of the control method of the disclosure may use an AI model trained according to at least one of machine learning, neural network, or deep learning algorithm.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004673 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR UPLINK TRANSMISSION TIMING

(51) International classification	:H04B0007185000, H04W0072040000, H04W0056000000, H04B0007260000, H04W0072120000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :164 83 Stockholm Sweden
(31) Priority Document No	:62/717536	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)MURUGANATHAN, Siva
(33) Name of priority country	:U.S.A.	2)GAO, Shiwei
(86) International Application No	:PCT/IB2019/056810	3)LIN, Xingqin
Filing Date	:09/08/2019	4)M,,,,TT,,NEN, Helka-Liina
(87) International Publication No	:WO 2020/031155	5)ZOU, Zhenhua
(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 uplink transmission timing are provided. In some embodiments, a method of operation of a wireless device in a cellular communications network includes receiving a transmission, from a network node, in a downlink slot; determining a reference uplink slot index in an uplink frame timing of the wireless device where the reference uplink slot index corresponds to the downlink slot in which the transmission was received; and transmitting an uplink transmission in response to the received transmission in an uplink slot a number of slots, K, after the determined reference uplink slot index. This may enable transmission in satellite radio access networks by establishing the transmission timing relationships that are suitable for long propagation delays and the large differential delay in a spotbeam in satellite communications systems that may range from sub- milliseconds to tens of milliseconds.

No. of Pages : 54 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004674 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TRANSMITTING AND RECEIVING SIGNALS

(51) International classification	:H04L0005000000, H04B0007060000, H04L0027260000, H04B0001388800, H04L0027280000	(71) Name of Applicant : 1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) Address of Applicant :SE-164 83 Stockholm Sweden
(31) Priority Document No	:PCT/EP2018/071678	(72) Name of Inventor :
(32) Priority Date	:09/08/2018	1)SUNDMAN, Dennis
(33) Name of priority country	:Sweden	2)LOPEZ, Miguel
(86) International Application No	:PCT/EP2018/071678	
Filing Date	:09/08/2018	
(87) International Publication No	:WO 2020/030276	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one example aspect, a method of transmitting signals is provided, the method comprising transmitting signals using one or more first subcarriers only from a first antenna, wherein the signals transmitted from the first antenna comprise first signals based on data, and transmitting signals using one or more second subcarriers different from the one or more first subcarriers only from a second antenna, wherein the signals transmitted from the second antenna comprise second signals based on the data.

No. of Pages : 17 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004675 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PHYSICAL SHARED CHANNEL SPLITTING AT SLOT BOUNDARIES

(51) International classification :H04W0072040000,
H04W0004700000,
H04L0005160000,
H04W0024100000,
G06F0015160000

(31) Priority Document No :62/717544

(32) Priority Date :10/08/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/EP2019/071447
Filing Date :09/08/2019

(87) International Publication No :WO 2020/030790

(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 :SE-164 83 Stockholm Sweden

(72)**Name of Inventor :**
1)BALDEMAIR, Robert
2)ANDERSSON, Mattias
3)KITTICHOKECHAI, Kittipong

(57) Abstract :

A method, system and apparatus are disclosed. A network node configured to communicate with a wireless device (WD) is provided. The network node comprising processing circuitry configured to cause the network node to: indicate a splitting of an initial physical shared channel allocation that crosses a slot boundary into at least a first physical shared channel allocation in a first slot and a second physical shared channel allocation in a second slot; and communicate with the wireless device, WD, according to the at least the first physical shared channel allocation and the second physical shared channel allocation.

No. of Pages : 37 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004676 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FUSION CONSTRUCTS AND METHODS OF USING THEREOF

(51) International classification	:C07K0016280000, A61K0039000000, A61K0047680000, A61K0038170000, A61P0035000000	(71) Name of Applicant : 1)PRECIGEN, INC. Address of Applicant :1750 Kraft Drive, Suite 1400 Blacksburg, VA 24060 U.S.A.
(31) Priority Document No	:62/695623	(72) Name of Inventor :
(32) Priority Date	:09/07/2018	1)SABZEVARI, Helen
(33) Name of priority country	:U.S.A.	2)METENOU, Simon
(86) International Application No	:PCT/US2019/041085	3)CHEN, ChangHung
Filing Date	:09/07/2019	4)SHAH, Rutul R.
(87) International Publication No	:WO 2020/014285	
(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 composition comprising a fusion protein or a fragment or a variant thereof comprising an anti-PD1 antibody or a fragment/variant thereof and a TGF- trap. Provided herein is a composition comprising a fusion protein or a fragment thereof or a variant thereof comprising an anti-PD1 antibody or a fragment/variant thereof and a ADA2 polypeptide. Also provided herein are methods of using the composition in treating cancer.

No. of Pages : 185 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004677 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : USE OF A CLAY IN THE PREPARATION OF A GEOPOLYMER PRECURSOR

(51) International classification	:C04B0028000000, C04B0014100000, G02F0001133300, C04B0033320000, C04B0103000000	(71) Name of Applicant : 1)VICAT Address of Applicant :Tour Manhattan 6 place de l'Iris 92095 PARIS LA DEFENSE France
(31) Priority Document No	:1857274	(72) Name of Inventor :
(32) Priority Date	:03/08/2018	1)MONTAZEAUD, Benoit
(33) Name of priority country	:France	2)BARNES-DAVIN, Laury
(86) International Application No	:PCT/EP2019/070861	
Filing Date	:02/08/2019	
(87) International Publication No	:WO 2020/025784	
(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 the use of a clay comprising: - less than 30% kaolinite; - at least 20% muscovite and/or illite; and - from 1% to 20% smectite; in which - the weight ratio of muscovite and/or illite/kaolinite is greater than 1; in the preparation of a geopolymer precursor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004699 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TEMPERATURE SENSOR SYSTEM

(51) International classification	:B23K0009320000, F24H0001180000, G01K0013000000, F23J0015020000, B25B0023000000
(31) Priority Document No	:16/112953
(32) Priority Date	:27/08/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/047387
Filing Date	:21/08/2019
(87) International Publication No	:WO 2020/046656
(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 :One River Road Schenectady, New York 12345 U.S.A.
(72)**Name of Inventor :**
1)FERRY, Allan
2)GILSTON, Philip Frederick
3)QIAN, Haiyang

(57) Abstract :

A temperature measurement system for very high temperature vessels is disclosed. The system includes a vessel to contain a heated gas therein. The vessel includes a wall having an inner side proximal to the heated gas, and an opposing outer side distal from the heated gas. The wall includes a threaded recess, with a stud having a first threaded portion threadedly engaged in the recess, and a second threaded portion extending outwardly therefrom. A nut is threadedly engaged on the second threaded portion of the stud. A retention plate is between the nut and the outer side of the wall with a first side coupled to the nut, and a second side coupled to outer side of the wall. A temperature sensor is disposed between the second surface of the retention plate and the outer side of the wall and coupled to the outer side of the wall.

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004704 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESSES FOR REDUCED OXYGENATED RECYCLE IN AN MTO CONVERSION

(51) International classification :C07C0001200000,
H01M0008041190,
C10G0067020000,
C07D0307680000,
C01B0003360000

(31) Priority Document No :16/100564
(32) Priority Date :10/08/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/046153
Filing Date :12/08/2019
(87) International Publication No :WO 2020/033948
(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)UOP LLC

Address of Applicant :25 East Algonquin Road P.O. Box 5017
Des Plaines, IL 60017-5017 U.S.A.

(72)Name of Inventor :

1)SENETAR, John, J.

(57) Abstract :

Processes and an apparatus for reducing heavy oxygenate recycle for an MTO reaction zone. After separating product and water from the MTO reaction effluent, an oxygenate rich stream is passed to a conversion zone in which methanol in the oxygenate rich stream is converted into DME. A DME rich stream is separated from heavy oxygenates and is recycled back to the MTO reaction zone. The conversion zone may include a reactive distillation column, or the conversion zone may include a reactor vessel and a separate separation vessel.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004705 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESSES FOR CONTROLLING THE PARTIAL REGENERATION OF SPENT CATALYST

(51) International classification	:C10G0011180000, B01J0038180000, C07C0001200000, B01J0038140000, C10G0035140000	(71) Name of Applicant : 1)UOP LLC Address of Applicant :25 East Algonquin Road P.O. Box 5017 Des Plaines, IL 60017-5017 U.S.A.
(31) Priority Document No	:16/100566	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)SENETAR, John, J.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/046149	
Filing Date	:12/08/2019	
(87) International Publication No	:WO 2020/033945	
(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 controlling the regeneration of spent catalyst from an oxygenate-to-olefin reaction zone in order to provide a partially regenerated catalyst. The partially regenerated catalyst has between 1 to 4, or 1 to 3, or, 2 to 3 wt% coke. The regeneration is controlled by adjusting a ratio of air to recycled flue gas in the combustion gas passed to the regeneration zone. CO in the flue gas is removed in a CO oxidation zone which receives oxygen to oxidize CO to CO₂.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004706 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SUBMERSIBLE AGITATOR DEVICE FOR CIRCULATING DRINKING WATER

(51) International classification	:B01F0007000000, F04D0029520000, H02K0015120000, F04D0013100000, H02K0009060000	(71) Name of Applicant : 1)INVENT UMWELT- UND VERFAHRENSTECHNIK AG Address of Applicant :Am Pestalozziring 21 91058 Erlangen Germany
(31) Priority Document No	:10 2018 119 039.5	(72) Name of Inventor :
(32) Priority Date	:06/08/2018	1)H-FKEN, Marcus
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2019/071029	
Filing Date	:05/08/2019	
(87) International Publication No	:WO 2020/030596	
(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 submersible agitator device for circulating drinking water, comprising a submersible motor having a cylindrical housing (1), from one end of which a shaft (3) extends, a hyperboloid agitator body (5) attached to the shaft (3), a frame (2) having a plurality of supports (4), which extend along the housing (1) and are connected to the housing (1), wherein the supports (4) have bend portions (6) which bend radially to the outside and which extend over a circumferential edge (U) of the hyperboloid agitator body (5) in order to support the frame (2) on a base, and an air flow guiding element (8), designed to be ring-like in plan view, which is attached to the bend portions (U) of the supports (4).

No. of Pages : 7 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004719 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : VEHICLE NAVIGATION ASSISTANCE METHOD AND SYSTEM

(51) International classification	:G01C0021360000, G01C0021320000, G01C0021260000, G08G0001017000, G06K0009000000	(71) Name of Applicant : 1)BANMA ZHIXING NETWORK (HONGKONG) CO., LIMITED Address of Applicant :Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong China
(31) Priority Document No	:201811109401.5	(72) Name of Inventor :
(32) Priority Date	:21/09/2018	1)CAI, Ling
(33) Name of priority country	:China	2)WU, Donglei
(86) International Application No	:PCT/CN2019/105279	
Filing Date	:11/09/2019	
(87) International Publication No	:WO 2020/057407	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A vehicle (110) navigation assistance method and system (100). The vehicle (110) navigation assistance method comprises the steps of: acquiring road data within a predetermined range, the road data within the predetermined range comprising static and/or dynamic information about objects within the predetermined range; identifying, on the basis of the road data, one or more vehicles (110) and vehicle (110) motion information among the objects; and transmitting the vehicle (110) motion information and the road data to the one or more vehicles (110), so that the vehicles (110) perform vehicle navigation. Further disclosed are a corresponding road side sensing device (200) and a vehicle navigation system (100).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004720 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NOVEL SOLID PRESENTATION FORM OF AT LEAST ONE PHENOL DERIVATIVE AND PROCESS FOR OBTAINING SAME

(51) International classification	:C07D0413120000, A23G0003340000, A61K0047340000, C08L0075080000, C07D0405120000	(71) Name of Applicant : 1)RHODIA OPERATIONS Address of Applicant :52 rue de la Haie Coq 93300 Aubervilliers France
(31) Priority Document No	:1857419	(72) Name of Inventor :
(32) Priority Date	:09/08/2018	1)SAPEY-TRIOMPHE, Rodolphe
(33) Name of priority country	:France	2)HUMBLOT, Cdric
(86) International Application No	:PCT/EP2019/070872	
Filing Date	:02/08/2019	
(87) International Publication No	:WO 2020/030541	
(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 solid presentation form of a phenol derivative, characterized by a rounded portion and a flat portion. The compositions thus obtained have advantageous properties suitable for the storage, handling and flow of the compounds. The present invention also relates to a process for preparing these solids, and to the use thereof, in particular in the polymer and agri-food industries.

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004721 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : USE OF ETHOXYAMIDE POLYMER AS COMBUSTION-SLOWING AGENT, LOW-ODOR COMBUSTION-SLOWING POLYOLEFIN COMPOSITION AND PREPARATION METHOD THEREOF

(51) International classification	:C08L0023100000, C08L0023000000, C08L0023060000, C08K0005157500, A61F0013514000	(71) Name of Applicant : 1)KINGFA SCI. & TECH. CO., LTD. Address of Applicant :No.33 Kefeng Road, Science City Guangzhou Hi-tech Industrial. Development Zone Guangzhou, Guangdong 510663 China
(31) Priority Document No	:201810890056.7	(72) Name of Inventor :
(32) Priority Date	:07/08/2018	1)YU, Fei
(33) Name of priority country	:China	2)HUANG, Xianbo
(86) International Application No	:PCT/CN2019/099358	3)LUO, Zhongfu
Filing Date	:06/08/2019	4)YE, Nanbiao
(87) International Publication No	:WO 2020/029940	5)DING, Zhengya
(61) Patent of Addition to Application Number	:NA	6)YANG, Bo
Filing Date	:NA	7)WU, Guofeng
(62) Divisional to Application Number	:NA	8)CHEN, Jiajie
Filing Date	:NA	

(57) Abstract :

Provided is a low-odor combustion-slowing polyolefin composition, comprising the following components in percentage by weight: 56 to 99.7% of polyolefin; 0.3 to 2% of ethoxyamide polymer; 0 to 2% of combustion-slowing synergist; 0 to 40% of filler. Provided is also a use of ethoxyamide polymer as combustion-slowing agent in a polyolefin composition.

No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004724 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : USER EQUIPMENT AND METHOD WITH IMPROVED CRITICAL COMMUNICATION NOTIFICATION IN WIRELESS COMMUNICATIONS

(51) International classification	:H04L0005000000, H04W0072040000, H04W0072020000, H04W0072080000, H04W0056000000	(71) Name of Applicant : 1)FRAUNHOFER-GESELLSCHAFT ZUR F-ORDERUNG DER ANGEWANDTEN FORSCHUNG E.V. Address of Applicant :Hansastraße 27c 80686 München Germany
(31) Priority Document No	:18188596.3	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)HASSAN, Khaled Shawky
(33) Name of priority country	:EPO	2)ROTH-MANDUTZ, Elke
(86) International Application No	:PCT/EP2019/071380	3)SACKENREUTER, Benjamin
Filing Date	:08/08/2019	
(87) International Publication No	:WO 2020/030767	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A user equipment for wireless communications is provided. The user equipment comprises a transmitter (152) and a receiver (154). A first resource pool comprises a first plurality of resources for transmission. A second resource pool comprises a second plurality of resources for transmission. The second resource pool configuration is different from the first resource pool configuration or is equal to the first resource pool configuration. The transmitter (152) is configured to transmit a first critical communication notification being a first message in the first resource pool, wherein the first critical communication notification indicates that a second message is to be transmitted in the second resource pool. Moreover, the transmitter (152) is configured to transmit the second message in the second resource pool after transmitting the first critical communication notification or at a same time when transmitting the first critical communication notification. A third resource pool comprises a third plurality of resources for transmission. A fourth resource pool comprises a fourth plurality of resources for transmission. The fourth resource pool configuration is different from the third resource pool configuration or is equal to the third resource pool configuration. The receiver (154) is configured to receive a second critical communication notification being a third message, the second critical communication notification being transmitted in the third resource pool, wherein the second critical communication notification indicates that a fourth message is to be transmitted in the fourth resource pool. The transmitter (152) is configured to not transmit anything in the fourth resource pool in response to the receipt of the second critical communication notification by the receiver (154).

No. of Pages : 34 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004725 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ENGINEERED IMMUNOSTIMULATORY BACTERIAL STRAINS AND USES THEREOF

(51) International classification	:A61K0039000000, A61K0035740000, C12N0001360000, A61P0035000000, A61K0039390000	(71) Name of Applicant : 1)ACTYM THERAPEUTICS, INC. Address of Applicant :626 Bancroft Way, Suite A Berkeley, CA 94710 U.S.A.
(31) Priority Document No	:PCT/US2018/041713	(72) Name of Inventor :
(32) Priority Date	:11/07/2018	1)THANOS, Christopher, D.
(33) Name of priority country	:U.S.A.	2)GLICKMAN, Laura, Hix
(86) International Application No	:PCT/US2019/041489	3)SKOBLE, Justin
Filing Date	:11/07/2019	4)IANNELLO, Alexandre, Charles, Michel
(87) International Publication No	:WO 2020/014543	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are delivery immunostimulatory bacteria that have enhanced colonization of tumors, the tumor microenvironment and/or tumor-resident immune cells, and enhanced anti-tumor activity. The immunostimulatory bacteria are modified by deletion of genes encoding the flagella or modification of the genes so that functional flagella are not produced, and/or are modified by deletion of pagP or modification of pagP to produce inactive PagP product. As a result, the immunostimulatory bacteria are flagellin- and/or pagP-. The immunostimulatory bacteria optionally have additional genomic modifications so that the bacteria are adenosine or purine auxotrophs. The bacteria optionally are one or more of asd-, purI- and msbB-. The immunostimulatory bacteria, such as Salmonella species, are modified to encode immunostimulatory proteins that confer anti-tumor activity in the tumor microenvironment, and/or are modified so that the bacteria preferentially infect immune cells in the tumor microenvironment or tumor-resident immune cells and/or induce less cell death in immune cells than in other cells. Also provided are methods of inhibiting the growth or reducing the volume of a solid tumor by administering the immunostimulatory bacteria.

No. of Pages : 230 No. of Claims : 161

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004728 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTENNA SYSTEM AND BASE STATION

(51) International classification	:H01Q0001240000, H01Q0021000000, H01Q0001520000, H01Q0001360000, H01Q0001500000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building Bantian, Longgang Shenzhen, Guangdong 518129 China
(31) Priority Document No	:201810920634.7	(72) Name of Inventor :
(32) Priority Date	:14/08/2018	1)XIAO, Weihong
(33) Name of priority country	:China	2)LIAO, Zhiqiang
(86) International Application No	:PCT/CN2019/099993	3)LI, Jianping
Filing Date	:09/08/2019	4)CUI, He
(87) International Publication No	:WO 2020/034905	
(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 antenna system and a base station. The antenna system comprises a radiation array, a transceiver TRX unit and a filter group, wherein the radiation array comprises a transmitting antenna unit group and a receiving antenna unit group that are independently arranged, the transmitting antenna unit group is used for transmitting signals, and the receiving antenna unit group is used for receiving signals; the transceiver TRX unit comprises a transmitting module and a receiving module; the filter group comprises a first-type filter and a second-type filter, the first-type filter is connected between the transmitting antenna unit group and the transmitting module, and the second-type filter is connected between the receiving antenna unit group and the receiving module. The antenna system of the present application can reduce the interference of a PIM signal generated by a transmitted signal on a received signal.

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004766 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ABRADABLE THERAPEUTIC COATINGS AND DEVICES INCLUDING SUCH COATINGS

(51) International classification	:A61L0031160000, A61L0031100000, A61K0045060000, A61L0029160000, A61B0017064000	(71) Name of Applicant : 1)ETHICON, INC. Address of Applicant :P.O. Box 151, U.S. Route 22 Somerville, New Jersey 08876 U.S.A.
(31) Priority Document No	:16/102159	(72) Name of Inventor :
(32) Priority Date	:13/08/2018	1)OU, Duan Li
(33) Name of priority country	:U.S.A.	2)TANNHAUSER, Robert J.
(86) International Application No	:PCT/IB2019/056619	3)KRIKSUNOV, Leo B.
Filing Date	:02/08/2019	
(87) International Publication No	:WO 2020/035759	
(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 reducing surgical site infection (SSI), using a coated medical device having a tissue penetrating surface and an abrasible coating on the medical device comprising at least one antimicrobial agent in the coating.

No. of Pages : 24 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004767 A

(19) INDIA

(22) Date of filing of Application :03/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : REINFORCED DEFORMABLE ANVIL TIP FOR SURGICAL STAPLER ANVIL

(51) International classification	:A61B0017290000, A61B0017000000, A61B0017072000, A61B0017115000, A61B0090000000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, USA, 00969 U.S.A.
(31) Priority Document No	:16/105183	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)HARRIS, Jason L.
(33) Name of priority country	:U.S.A.	2)ARONHALT, Taylor W.
(86) International Application No	:PCT/IB2019/056873	3)BAKOS, Gregory J.
Filing Date	:13/08/2019	4)BAXTER, III, Chester O.
(87) International Publication No	:WO 2020/039305	5)SHELTON, IV, Frederick E.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An anvil for a surgical stapler. In various arrangements, the anvil comprises an anvil body that is fabricated from a first material and a tip member that is fabricated from a second material that differs from the first material. The tip member may comprise a flexible attachment portion that is configured to be received within an opening in a distal end of the anvil body. A second attachment member is configured to non-removably engage the first flexible attachment portion to bias the first flexible attachment portion into retaining engagement with corresponding portions of the distal end of the anvil body.

No. of Pages : 78 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004778 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION

(51) International classification	:G06N0020000000, G06K0009620000, G06F0011070000, H04W0004021000, G06Q0030000000	(71) Name of Applicant : 1)MICROSOFT TECHNOLOGY LICENSING, LLC Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/105189	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)LIVNY, Yotam
(33) Name of priority country	:U.S.A.	2)LEVIN, Roy
(86) International Application No	:PCT/US2019/039658	3)PLISKIN, Ram Haim
Filing Date	:28/06/2019	4)KLIGER, Ben
(87) International Publication No	:WO 2020/040876	5)SCHERMAN, Mathias Abraham Marc
(61) Patent of Addition to Application Number	:NA	6)ISRAEL, Moshe
Filing Date	:NA	7)BARGURY, Michael Zeev
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems, methods, and apparatuses are provided for clustering incidents in a computing environment. An incident notification relating to an event (e.g., a potential cyberthreat or any other alert) in the computing environment is received and a set of features may be generated based on the incident notification. The set of features may be provided as an input to a machine-learning engine to identify a similar incident notification in the computing environment. The similar incident notification may include a resolved incident notification or an unresolved incident notification. An action to resolve the incident notification may be received, and the received action may thereby be executed. In some implementations, in addition to resolving the received incident notification, the action may be executed to resolve a similar unresolved incident notification identified by the machine-learning engine.

No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004783 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TRACE RECONSTRUCTION FROM READS WITH INDETERMINANT ERRORS

(51) International classification	:G16B0030000000, G11B0020180000, C12Q0001687400, C12Q0001685300, C12Q0001686900	(71) Name of Applicant : 1)MICROSOFT TECHNOLOGY LICENSING, LLC Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(31) Priority Document No	:16/105349	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)YEKHANIN, Sergey Mikhailovich
(33) Name of priority country	:U.S.A.	2)RACZ, Miklos Zoltan
(86) International Application No	:PCT/US2019/038628	
Filing Date	:24/06/2019	
(87) International Publication No	:WO 2020/040861	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Polynucleotide sequencing generates multiple reads of a polynucleotide molecule. Many or all of the reads contain errors. Trace reconstruction takes multiple reads generated by a polynucleotide sequencer and uses those multiple reads to reconstruct accurately the nucleotide sequence of the polynucleotide molecule. Some reads may contain errors that cannot be corrected. Thus, there may be reads that can be used throughout their entire length and other reads that have indeterminant errors which cannot be corrected. Rather than discarding the entire read when an indeterminant error is found, the portion of the read with the error is skipped and the sequence of the read following the error is used to reconstruct the trace. The amount of the read skipped is determined by the location of subsequence after the error that matches a consensus sequence of the other reads. Analysis resumes at a location determined by the location of the match.

No. of Pages : 52 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004785 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FACETED GEMSTONE FOR FOCAL POINT ILLUMINATION AND METHOD OF MAKING FACETED GEMSTONE

(51) International classification :A44C0017000000,
A44C0017020000,
G02B0003000000,
B01J0021040000,
B24B0009160000

(31) Priority Document No :62/694307

(32) Priority Date :05/07/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/038674
Filing Date :24/06/2019

(87) International Publication No :WO 2020/009823

(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)BUICK, Brian D.

Address of Applicant :22 Inverleith Terrace Moraga,
California 94556 U.S.A.

(72)Name of Inventor :

1)BUICK, Brian D.

(57) Abstract :

Embodiments of the disclosure provide a gemstone, jewelry piece, and method for faceting a gemstone. The gemstone, includes: a top portion having a spheroidal surface, the spheroidal surface acting as a refractive surface for light incident on the top portion of the gemstone and focal point lens originator; and a bottom portion shaped as a cone, the cone acting as a light axis to form a focal point on a reflective surface at a base of the gemstone.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004786 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR CONTROLLING A HEART PUMP TO MINIMIZE MYOCARDIAL OXYGEN CONSUMPTION

(51) International classification	:A61M0001120000, A61M0001100000, A61N0001365000, A61B0005029000, A61B0005021500	(71) Name of Applicant : 1)ABIOMED, INC. Address of Applicant :22 Cherry Hill Drive Danvers, MA 01923 U.S.A.
(31) Priority Document No	:16/050542	(72) Name of Inventor :
(32) Priority Date	:31/07/2018	1)SUNAGAWA, Kenji
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/044032	
Filing Date	:30/07/2019	
(87) International Publication No	:WO 2020/028295	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Various systems, devices, and methods are disclosed herein for healing acute myocardial infarction (AMI) patients using a heart, pump controlled in a manner that maximizes mechanical unloading of the left ventricle in the presence of cardiovascular instability and minimizes myocardial oxygen consumption (MVO₂) and consequentially infarct size to prevent the development of subsequent heart failure. In a closed feedback system, the system can include a sensor configured to generate an output used to measure or calculate a left ventricular systolic pressure (LVSP) within the left ventricle of a heart and a controller coupled to a heart, pump. The controller can be configured to measure or calculate the LVSP based on the output of the sensor and to control an operation of the heart pump to maximize mechanical unloading of the left ventricle based on the measured or calculated LVSP.

No. of Pages : 16 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004787 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : USE OF RILUZOLE PRODRUGS TO TREAT ALZHEIMER'S DISEASE

(51) International classification	:A61K0031428000, C07K0005097000, C07K0005062000, A61K0031550000, A61K0047540000	(71) Name of Applicant : 1)BIOHAVEN THERAPEUTICS LTD. Address of Applicant :215 Church Street New Haven, Connecticut 06510 U.S.A.
(31) Priority Document No	:62/701814	(72) Name of Inventor :
(32) Priority Date	:22/07/2018	1)CORIC, Vladimir
(33) Name of priority country	:U.S.A.	2)BERMAN, Robert
(86) International Application No	:PCT/US2019/042718	3)QURESHI, Irfan
Filing Date	:20/07/2019	
(87) International Publication No	:WO 2020/023324	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are methods of treating Alzheimer's Disease by administering to a patient in need thereof a riluzole prodrug such as tririluzole. Pharmaceutical compositions and kits including the riluzole prodrugs are also disclosed.

No. of Pages : 36 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004807 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FUSED PYRAZINE DERIVATIVES AS A2A / A2B INHIBITORS

(51) International classification	:A61P0009000000, A61P0035000000, A61P0029000000, C07D0491056000, C07F0007080000	(71) Name of Applicant : 1)INCYTE CORPORATION Address of Applicant :1801 Augustine Cut-Off Wilmington, Delaware 19803 U.S.A.
(31) Priority Document No	:62/694138	(72) Name of Inventor :
(32) Priority Date	:05/07/2018	1)HOANG, Gia
(33) Name of priority country	:U.S.A.	2)WANG, Xiaozhao
(86) International Application No	:PCT/US2019/040496	3)CARLSEN, Peter Niels
Filing Date	:03/07/2019	4)GAN, Pei
(87) International Publication No	:WO 2020/010197	5)LI, Yong
(61) Patent of Addition to Application Number	:NA	6)QI, Chao
Filing Date	:NA	7)WU, Liangxing
(62) Divisional to Application Number	:NA	8)YAO, Wenqing
Filing Date	:NA	9)YU, Zhiyong
		10)ZHU, Wenyu

(57) Abstract :

This application relates to compounds of Formula (I) or pharmaceutically acceptable salts thereof, which modulate the activity of adenosine receptors, such as subtypes A2A and A2B receptors, and are useful in the treatment of diseases related to the activity of adenosine receptors including, for example, cancer, inflammatory diseases, cardiovascular diseases, and neurodegenerative diseases.

No. of Pages : 282 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004811 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : 2,6-DIAMINO PYRIDINE COMPOUNDS

(51) International classification	:C07D0413140000, C07D0263560000, C07D0213650000, C07D0263580000, A61K0031472500	(71) Name of Applicant : 1)ELI LILLY AND COMPANY Address of Applicant :Lilly Corporate Center Indianapolis, Indiana 46285 U.S.A.
(31) Priority Document No	:62/726520	(72) Name of Inventor :
(32) Priority Date	:04/09/2018	1)DURHAM, Timothy Barrett
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/048788	
Filing Date	:29/08/2019	
(87) International Publication No	:WO 2020/051058	
(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 compound of Formula I or a pharmaceutically acceptable salt thereof, and the use of compounds of Formula I for treating metabolic conditions, such as type 2 diabetes mellitus, heart failure, diabetic kidney disease, and non-alcoholic steatohepatitis.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004816 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMOBILE MANUFACTURING MEMBER

(51) International classification	:B62D0025200000, B62D0025040000, H01G0011100000, B62D0029000000, C02F0001440000	(71) Name of Applicant : 1)NIPPON STEEL CORPORATION Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2018-167709	(72) Name of Inventor :
(32) Priority Date	:07/09/2018	1)URUSHIBATA, Ryo
(33) Name of priority country	:Japan	2)ITO, Yasuhiro
(86) International Application No	:PCT/JP2019/035374	
Filing Date	:09/09/2019	
(87) International Publication No	:WO 2020/050422	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A hollow automobile manufacturing member has a top wall part, a bottom wall part facing the top wall part, and a first vertical wall part and a second vertical wall part which are a pair of vertical wall parts connecting the top wall part and the bottom wall part. The automobile manufacturing member has: a first reinforcing part having one end section joined to the top wall part and the other end section joined to the bottom wall part; and a second reinforcing part having one end section joined to either the first vertical wall part or the second vertical wall part, and the other end section joined to the first reinforcing part, wherein a plurality of the second reinforcing parts are provided along the height direction of the vertical wall parts.

No. of Pages : 33 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004824 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MODULAR FLOATING STRUCTURE AND METHOD OF CONSTRUCTION

(51) International classification	:B63B0035440000, B63B0035340000, A63H0033080000, F03D0013250000, A61H0015000000	(71) Name of Applicant : 1)LEGACY FOUNDRY AG Address of Applicant :Genferstrasse 21 8002 Z ¹ / ₄ rich Switzerland
(31) Priority Document No	:62/703521	(72) Name of Inventor :
(32) Priority Date	:26/07/2018	1)VOUILLAMOZ, Lucien
(33) Name of priority country	:U.S.A.	2)RINCON HANNA, Francisco Daniel
(86) International Application No	:PCT/IB2019/056405	3)JACCARD, Alain
Filing Date	:26/07/2019	4)BOSCHI, Pascal
(87) International Publication No	:WO 2020/021507	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A floating territory is made of at least two floatable building components having the shape of a prism with a regular polygon base, such as a triangle, a square, a pentagon, a hexagon, etc. combined with sliding dovetails and dovetail grooves for sliding attachment to neighboring construction elements. The attachments allow the floatable building components to slide vertically relative to each other, thereby permitting the floating territory to follow the upward and downward movement of the waves. A method of converting floating ocean waste into structures, in particular, floating territories is also provided.

No. of Pages : 22 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004825 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

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

(51) International classification :F25B0049020000,
F01N0009000000,
A61B0018120000,
H01M0010630000,
G01R0031000000

(31) Priority Document No :62/730049
(32) Priority Date :12/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/050741
Filing Date :12/09/2019
(87) International Publication No :WO 2020/056084
(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)NOVELIS INC.

Address of Applicant :3560 Lenox Road, Suite 2000 Atlanta,
Georgia 30326 U.S.A.

(72)Name of Inventor :

1)SON, Jung Young

2)RAUCH, Edwin L.

(57) Abstract :

A cooling system for the decoating system includes a sensor, a control device, and a controller communicatively coupled with the sensor and the control device. The sensor is configured to measure a characteristic of the cooling system in the decoating system, the control device controls the characteristic of the cooling system, and the controller is configured to adjust the control device to adjust the characteristic of the cooling system based on at least one of a measured temperature within the decoating system or the measured characteristic. A method of controlling a temperature of the decoating system includes measuring a temperature within a piece of equipment of the decoating system and measuring a characteristic the cooling system in the piece of equipment of the decoating system. The method includes controlling the cooling system to adjust the characteristic based on at least one of the measured temperature or the measured characteristic.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004826 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND APPARATUS FOR IDENTIFYING SUBSTANCES USING ION MOBILITY BASED ION SEPARATION TECHNIQUES

(51) International classification :G01N0027620000,
H01J0049060000,
H01J0049000000,
H01L0045000000,
H01J0049220000

(31) Priority Document No :1812481.8

(32) Priority Date :31/07/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/GB2019/052102
Filing Date :26/07/2019

(87) International Publication No :WO 2020/025933

(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)SMITHS DETECTION-WATFORD LIMITED
Address of Applicant :Century House Maylands Avenue
Hemel Hempstead HP2 7DE U.K.

(72)**Name of Inventor :**
1)ATKINSON, Jonathan Richard
2)CLARK, Alastair

(57) Abstract :

An ion mobility spectrometry method comprising (i) applying a voltage difference between a first electrode of an ion gate and a second electrode of the ion gate to prevent ions from leaving a reaction region of an ion mobility spectrometer; (ii) opening the ion gate to allow the ions to travel from the reaction region into a modification region between the first electrode and the second electrode; (iii) applying a radio frequency, RF, voltage between the first electrode and the second electrode to fragment the ions in the modification region to provide daughter ions;(iv) allowing the daughter ions to travel from the modification region into a drift region of the ion mobility spectrometer towards a collector; (v) closing the ion gate; and (vi) determining the time of flight of the daughter ions from the ion gate to the collector.

No. of Pages : 19 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004830 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SUBSTITUTED QUINAZOLINONE DERIVATIVES AND THEIR USE AS POSITIVE ALLOSTERIC MODULATORS OF MGLUR4

(51) International classification	:A61K0031537700, A61K0031407000, A61K0031517000, C07D0487040000, C07D0495040000	(71) Name of Applicant : 1)DOMAIN THERAPEUTICS Address of Applicant :850 Boulevard Sbastien Brant Bioparc 67400 Illkirch-Graffenstaden France
(31) Priority Document No	:18315019.2	(72) Name of Inventor :
(32) Priority Date	:26/07/2018	1)AMALRIC, Camille
(33) Name of priority country	:EPO	2)BARRE, Anaïs
(86) International Application No	:PCT/EP2019/070178	3)SCHANN, Stephan
Filing Date	:26/07/2019	4)MAYER, Stanislas
(87) International Publication No	:WO 2020/021064	5)DORANGE, Ismet
(61) Patent of Addition to Application Number	:NA	6)MANTEAU, Baptiste
Filing Date	:NA	7)BLAYO, Anne-Laure
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to novel quinazolinone derivatives of formula (I) as well as pharmaceutical compositions containing these compounds. The compounds of formula (I) as provided herein can act as positive allosteric modulators of metabotropic glutamate receptor subtype 4 (mGluR4), and can thus be used as therapeutic agents, particularly in the treatment or prevention of conditions associated with altered glutamatergic signalling and/or functions or conditions which can be affected by alteration of glutamate level or signalling.

No. of Pages : 245 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004852 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ARTICLE ANTI-FORGERY PROTECTION

(51) International classification	:G03H0001000000, B42D0025405000, G06K0009000000, B42D0025470000, G07F0007080000	(71) Name of Applicant : 1)SICPA HOLDING SA Address of Applicant :Avenue de Florissant 41 1008 Prilly Switzerland
(31) Priority Document No	:18182697.5	(72) Name of Inventor :
(32) Priority Date	:10/07/2018	1)DECOUX, Eric
(33) Name of priority country	:EPO	2)GILLET, Philippe
(86) International Application No	:PCT/EP2019/064359	3)THEVOZ, Philippe
Filing Date	:03/06/2019	4)WALLACE, Elisabeth
(87) International Publication No	:WO 2020/011447	
(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 securing of an article against forgery and falsifying of its associated data, and particularly of data relating to its belonging to a specific batch of articles, while allowing offline or online checking of the authenticity of a secured article and conformity of its associated data with respect to that of a genuine article.

No. of Pages : 51 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004858 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND APPARATUS FOR HIGH-RESOLUTION CSI REPORTING IN WIRELESS COMMUNICATION SYSTEMS

(51) International classification :H04B0007060000,
H04B0007045600,
H04L0005000000,
H04W0080080000,
H04L0001060000

(31) Priority Document No :62/700041

(32) Priority Date :18/07/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/KR2019/008914
Filing Date :18/07/2019

(87) International Publication No :WO 2020/017912

(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)RAHMAN, Md Saifur

2)ONGGOSANUSI, Eko

(57) Abstract :

Method and apparatus for high-resolution channel state information (CSI) reporting in advanced wireless communication systems. A method of operating a user equipment (UE) includes selecting, from a full basis set comprising N bases for a plurality of v layers, an intermediate basis set comprising N' bases that are common among the plurality of v layers and selecting, from the selected intermediate basis set, a basis subset comprising MI bases for each layer l of the plurality of v layers. The method further includes transmitting, to a BS, indices of the N'bases included in the selected intermediate basis set and indices of the MI bases included in the selected basis subsets. N, N' and MI are positive integers; N'

No. of Pages : 64 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004859 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ROR-1 SPECIFIC CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF

(51) International classification	:C07K0016280000, A61K0039000000, C07K0014725000, C07K0014705000, C12N0005078300	(71) Name of Applicant : 1)PRECIGEN, INC. Address of Applicant :1750 Kraft Dr. Suite 1400 Blacksburg, Virginia 24060 U.S.A.
(31) Priority Document No	:62/696075	(72) Name of Inventor :
(32) Priority Date	:10/07/2018	1)SHAH, Rutul R.
(33) Name of priority country	:U.S.A.	2)CHEN, ChangHung
(86) International Application No	:PCT/US2019/041213	3)BOLINGER, Cheryl G.
Filing Date	:10/07/2019	4)KURELLA, Vinodhbabu
(87) International Publication No	:WO 2020/014366	5)WESA, Amy
(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 chimeric antigen receptors (CARs) for cancer therapy, and more particularly, CARs containing a scFv from an anti-ROR-1 monoclonal antibody. Provided are immune effector cells containing such CARs, and methods of treating proliferative disorders.

No. of Pages : 169 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004870 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTI-THEFT CARRYING BAGS, SECURITY PANEL ASSEMBLIES AND CARRYING STRAPS

(51) International classification	:A45C0013180000, A45C0003000000, A45C0003060000, A45C0013020000, A45C0013300000	(71) Name of Applicant : 1)TRAVEL CADDY, INC. Address of Applicant :11333 Addison Ave. Unit 200 Franklin Park, IL 60131 U.S.A.
(31) Priority Document No	:62/695994	(72) Name of Inventor :
(32) Priority Date	:10/07/2018	1)GODSHAW, Donald, E.
(33) Name of priority country	:U.S.A.	2)KRAMER, Jason, Michael
(86) International Application No	:PCT/US2019/041265	3)HICKMAN, Bryce, Ryan
Filing Date	:10/07/2019	4)HAI, Du
(87) International Publication No	:WO 2020/014402	5)REEVES, Malea
(61) Patent of Addition to Application Number	:NA	6)SCOTT, Jaclyn
Filing Date	:NA	7)WANG, Yan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In various embodiments, a carrying bag is disclosed which includes a one or more security panel assemblies comprising a first flexible material layer and a polymeric fiber matrix, such as a polymer fiber-based cut-resistant fabric, matrix or mesh. Various carrying straps are disclosed which include a first flexible fabric or webbing; and a second flexible fabric or webbing comprising a polymeric fiber matrix. Additional polymeric fibers, filaments, cables, threads or yams may be included in the security panel assemblies and straps, such as cut -resistant monofilament and multifilament fibers comprised of a polyethylene such as ultra high molecular weight polyethylene (UHMWPE), high-modulus polyethylene (HMPE), or High Performance Polyethylene (HPPE), for example.

No. of Pages : 54 No. of Claims : 25

(54) Title of the invention : SYSTEMS AND METHODS FOR AFFECTING CARDIAC CONTRACTILITY AND/OR RELAXATION

(51) International classification	:A61B0017221000, A61F0002966000, A61N0001360000, A61F0002950000, A61N0001050000	(71) Name of Applicant : 1)CARDIONOMIC, INC. Address of Applicant :601 Campus Drive Suite 12 New Brighton, Minnesota 55112 U.S.A.
(31) Priority Document No	:62/718147	(72) Name of Inventor :
(32) Priority Date	:13/08/2018	1)MOLNAR, Gabriela, Cristina
(33) Name of priority country	:U.S.A.	2)GOEDEKE, Steven, D.
(86) International Application No	:PCT/US2019/046202	3)KENNEFICK, Michelle, Leslie
Filing Date	:12/08/2019	4)OLSON, David, Christopher
(87) International Publication No	:WO 2020/036886	5)WALDHAUSER, Steven, L.
(61) Patent of Addition to Application Number	:NA	6)KERKOW, Todd, Alan
Filing Date	:NA	7)ESKURI, Alan, David
(62) Divisional to Application Number	:NA	8)THORSTENSON, Chad, Allen
Filing Date	:NA	9)HER, John, Son

(57) Abstract :

A system for application of neurostimulation includes an outer sheath, an elongate inner member in the outer sheath and movable relative to the outer sheath. The inner lumen has a distal end. An expandable member is coupled to the distal end of the inner member and is in the outer sheath. The expandable member is self-expanding upon from a compressed state in the outer sheath to an expanded state out of the outer sheath. The expandable member includes a distal portion including a plurality of wires woven together and a proximal portion including the plurality of wires extending parallel to a longitudinal axis. The system includes a plurality of electrode assemblies outward of the expandable member and circumferentially spaced around the expandable member. Each electrode assembly is coupled to two of the wires extending parallel to the longitudinal axis. Each electrode assembly includes a plurality of longitudinally-spaced electrodes.

No. of Pages : 388 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004873 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SCALAR QUANTIZER DECISION SCHEME FOR DEPENDENT SCALAR QUANTIZATION

(51) International classification	:H04N0019130000, H04N0019180000, H04N0019910000, H04N0019600000, H04N0019129000	(71) Name of Applicant : 1)INTERDIGITAL VC HOLDINGS, INC. Address of Applicant :200 Bellevue Parkway Suite 300 Wilmington, Delaware 19809 U.S.A.
(31) Priority Document No	:18290103.3	(72) Name of Inventor :
(32) Priority Date	:21/09/2018	1)CHEN, Ya
(33) Name of priority country	:EPO	2)LELEANNEC, Fabrice
(86) International Application No	:PCT/US2019/051089	3)POIRIER, Tangi
Filing Date	:13/09/2019	4)DE LAGRANGE, Philippe
(87) International Publication No	:WO 2020/060867	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

When dependent scalar quantization is used, the choice of the quantizer depends on the decoding of the preceding transform coefficient, and the entropy decoding of a transform coefficient depends on quantizer choice. To maintain high throughput in hardware implementations for transform coefficient entropy coding, several decision schemes of the scalar quantizer are proposed. In one implementation, the state transition and the context model selection are based on only regular coded bins. For example, the state transition can be based on the sum of the SIG, gt1 and gt2 flags, the exclusive-or function of the SIG, gt1 and gt2 flags, or based on only the gt1 or gt2 flag. When a block of transform coefficients is coded, the regular mode bins can be coded first in one or more scan passes, and the remaining bypass coded bins are grouped together in another one or more scan passes.

No. of Pages : 38 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004877 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : POLYCARBODIIMIDE COMPOSITION, METHOD FOR PRODUCING POLYCARBODIIMIDE COMPOSITION, WATER-DISPERSED COMPOSITION, SOLUTION COMPOSITION, RESIN COMPOSITION, RESIN CURED PRODUCT, AND CARBODIIMIDE CROSSLINKING AGENT FOR FIBER TREATMENT

(51) International classification	:C08G0018790000, C08G0018280000, C08G0018480000, C08G0018090000, C08G0018320000	(71) Name of Applicant : 1)MITSUI CHEMICALS, INC. Address of Applicant :5-2, Higashi-Shimbashi 1-chome, Minato-ku, Tokyo 1057122 Japan
(31) Priority Document No	:2018-150929	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)YAMASHITA, Tatsuya
(33) Name of priority country	:Japan	2)KOYAMA, Yohei
(86) International Application No	:PCT/JP2019/030706	3)MORITA, Hirokazu
Filing Date	:05/08/2019	4)FUKUDA, Kazuyuki
(87) International Publication No	:WO 2020/031951	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A polycarbodiimide composition which is obtained by carbodiimidizing a reaction product of a linear aliphatic diisocyanate and an alcohol, and which is configured such that: the alcohol contains a polyol and a monool; the molar ratio of the hydroxyl groups derived from the polyol to the hydroxyl groups derived from the monool in the alcohol, namely (hydroxyl groups derived from polyol)/(hydroxyl groups derived from monool) is less than 2.0; and the carbodiimide equivalent of this polycarbodiimide composition is 300 g/mol or more but less than 550 g/mol.

No. of Pages : 58 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004883 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMMUNICATION METHOD AND DEVICE

(51) International classification	:H04W0072120000, H04W0072040000, H04L0001160000, H04L0005000000, H04L0001180000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building, Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:201810868998.5	(72) Name of Inventor :
(32) Priority Date	:02/08/2018	1)MA, Ruixiang
(33) Name of priority country	:China	2)LI, Shengyu
(86) International Application No	:PCT/CN2019/099108	3)GUAN, Lei
Filing Date	:02/08/2019	
(87) International Publication No	:WO 2020/025063	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A communication method and device. The principle of said method is as follows: at present, for semi-persistent scheduling downlink data, only 1-bit response information may be fed back in a time unit. However, as a transmission period P of semi-persistent scheduling downlink data becomes smaller and smaller, a situation where multi-bit response information needs to be fed back in a time unit may occur. On this basis, the present application provides a communication method and device, mainly for solving the problem of feeding back multi-bit response information in a time unit, and the main principle is as follows: firstly, determining multi-bit response data to be sent in a time unit, then generating N response codebooks, said N response codebooks being used for bearing multi-bit response information, and finally sending said N response codebooks in the time unit.

No. of Pages : 53 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004884 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DROPLET EJECTION HEAD, MANIFOLD COMPONENT THEREFOR, AND DESIGN METHOD

(51) International classification	:B41J0002140000, B41J0002175000, B01L0009000000, A61M0005190000, F28F0009020000	(71) Name of Applicant : 1)XAAR TECHNOLOGY LIMITED Address of Applicant :Science Park Cambridge Cambridgeshire CB4 0XR U.K.
(31) Priority Document No	:1812284.6	(72) Name of Inventor :
(32) Priority Date	:27/07/2018	1)DEGRAEVE, Sebastien Roger Gabriel
(33) Name of priority country	:U.K.	2)BROOK, Colin
(86) International Application No	:PCT/GB2019/052106	
Filing Date	:26/07/2019	
(87) International Publication No	:WO 2020/021284	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A manifold component for a droplet ejection head, the manifold component comprising: a mount for receiving an actuator component that provides one or more rows of fluid chambers, each chamber being provided with a respective at least one actuating element and a respective at least one nozzle, the at least one actuating element for each chamber being actuatable to eject a droplet of fluid in an ejection direction through the corresponding at least one nozzle, each row extending in a row direction; a manifold chamber, which extends from a first end to a second end, and widens from said first end to said second end, the second end providing fluidic connection, in parallel, to at least a group of chambers within said one or more rows and being located adjacent said mount; and at least one port, each port opening into the manifold chamber at the first end thereof; wherein at least one portion between the first end and second end of the manifold chamber is shaped as a hyperbolic acoustic horn.

No. of Pages : 32 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004885 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DROPLET EJECTION HEAD AND MANIFOLD COMPONENT THEREFOR

(51) International classification	:B41J0002140000, B41J0002175000, B01L0003000000, F21S0043245000, F02B0027000000	(71) Name of Applicant : 1)XAAR TECHNOLOGY LIMITED Address of Applicant :Science Park Cambridge Cambridgeshire CB4 0XR U.K.
(31) Priority Document No	:1812273.9	(72) Name of Inventor :
(32) Priority Date	:27/07/2018	1)DEGRAEVE, Sebastien Roger Gabriel
(33) Name of priority country	:U.K.	2)NEAL, Gareth Paul
(86) International Application No	:PCT/GB2019/052107	
Filing Date	:26/07/2019	
(87) International Publication No	:WO 2020/021285	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A manifold component for a droplet ejection head, the manifold component comprising: a mount for receiving at least one actuator component that provides one or more rows of fluid chambers, each chamber being provided with at least one respective actuating element and at least one respective nozzle, each at least one actuating element being actuatable to eject a droplet of fluid in said ejection direction through the corresponding at least one of said nozzles, each row extending in a row direction; an inlet manifold chamber, which extends from a first end to a second end, the second end providing fluidic connection, in parallel, to at least a group of chambers within said one or more rows of fluid chambers and being located adjacent said mount; at least one inlet port, each inlet port opening into the inlet manifold chamber at the first end thereof; and a plurality of fluid guides disposed within the inlet manifold chamber, each fluid guide extending from a respective first end to a respective second end, the first ends of at least some of said fluid guides being located adjacent the first end of the inlet manifold chamber, and the second ends of at least some of said fluid guides being located adjacent the second end of the inlet manifold chamber; wherein the fluid guides diverge as they progress from the first end towards the second end of the inlet manifold chamber, the fluid guides thereby causing fluid flowing from the first end to the second end of the inlet manifold chamber to be distributed over the width, in the row direction, of the second end thereof.

No. of Pages : 17 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004887 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PHOSPHATE AND PHOSPHONATE DERIVATIVES OF 7-AMINO-5-THIO-THIAZOLO[4,5-D]PYRIMIDINES AND THEIR USE IN TREATING CONDITIONS ASSOCIATED WITH ELEVATED LEVELS OF CX3CR1 AND/OR CX3CL1

(51) International classification	:A61P0035000000, C07D0405060000, A61K0031443900, C07D0241040000, A61P0029000000	(71) Name of Applicant : 1)KANCERA AB Address of Applicant :Karolinska Institutet Science Park Banvaktsvägen 22 SE-171 48 Solna Sweden
(31) Priority Document No	:1811169.0	(72) Name of Inventor :
(32) Priority Date	:06/07/2018	1)V...GBERG, Jan
(33) Name of priority country	:U.K.	2)BYSTR-M, Styrbjörn
(86) International Application No	:PCT/EP2019/068169	3)OLSSON, Elisabeth
Filing Date	:05/07/2019	4)J-NSSON, Mattias
(87) International Publication No	:WO 2020/008064	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

There is provided a compound of formula (I), wherein R1, R2, Q1 and formula (X) are as defined herein, which compounds are useful in the treatment of diseases and disorders associated with elevated levels of CX3CR1 and/or CX3CL1, in particular acute and/or chronic inflammation, eye diseases, lung diseases, skin diseases, joint and/or bone diseases, autoimmune diseases, cardiovascular diseases, metabolic diseases, brain diseases, neurodegenerative diseases, pain, cancer, liver diseases, kidney diseases, gastrointestinal diseases, human immunodeficiency virus and mood disorders.

No. of Pages : 85 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004888 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : EXHAUST DEVICE FOR INTERNAL COMBUSTION ENGINE FOR SADDLE-TYPE VEHICLE

(51) International classification :F01N0003280000,
F01N0003240000,
F01N0013000000,
B62M0007020000,
F01N0003100000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2018/032895
Filing Date :05/09/2018
(87) International Publication No :WO 2020/049658
(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)YASUDA Shohei

(57) Abstract :

An exhaust device for an internal combustion engine for a saddle-type vehicle in which a catalyst carrier of a catalytic converter is accommodated in a catalyst holding tube, the catalyst holding tube is covered with a cylindrical cover that supports the upstream end part and the downstream end part of the catalyst holding tube, and the catalyst holding tube is formed so as to have, on the upstream side of the downstream end part, an expanded-diameter section having a diameter larger than the downstream end part supported by the cover, wherein the cover (26) comprises: an upstream-side cover member (28) in which is formed an upstream-side support part (28c) that supports in a fixed manner, at the upstream end part of an upstream-side cover member main part (28a), which has a larger diameter than the expanded-diameter section (27), the upstream end part (24a) of the catalyst holding tube (24); and a downstream-side cover member (29) in which is formed a downstream-side support part (29c) that slideably supports, at the downstream end part of a downstream-side cover member main part (29a), the downstream end part (24b) of the catalyst holding tube, the upstream end part of the downstream-side cover member main part being joined to the downstream end part of the upstream-side cover member main part. The operation for assembling the catalytic converter into the cover is thereby simplified.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004902 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CLOTHES TREATMENT APPARATUS

(51) International classification	:D06F0034280000, B65D0085100000, D06F0037280000, E04B0001348000, D06F0058100000	(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	:62/711629	(72) Name of Inventor :
(32) Priority Date	:30/07/2018	1)CHOI, Junyoung
(33) Name of priority country	:U.S.A.	2)NAM, Wansik
(86) International Application No	:PCT/KR2019/009478	3)PARK, Sunghoo
Filing Date	:30/07/2019	4)PARK, Hyeyong
(87) International Publication No	:WO 2020/027543	
(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 clothes treatment apparatus comprising: an outer case having a first opening of which the front is open; an inner case provided inside the outer case; a machine room forming part positioned at the lower part of the inner case so as to form a machine room separated from the inner case; a foaming space formed between the outer case and the machine room forming part; foamed plastics filled in the foaming space; and strength reinforcing parts positioned at both side surfaces of the outer case in the foaming space so as to reinforce the strength of the outer case.

No. of Pages : 21 No. of Claims : 12

(54) Title of the invention : BATTERY AND BATTERY PACK

(51) International classification	:H01M0010040000, H01M0002020000, H01M0010058700, H01M0004020000, H01M0002260000	(71) Name of Applicant : 1)KABUSHIKI KAISHA TOSHIBA Address of Applicant :1-1, Shibaura 1-chome, Minato-ku, Tokyo 1050023 Japan
(31) Priority Document No	:WO 2020/059131	(72) Name of Inventor :
(32) Priority Date	:21/09/2018	1)TANAKA, Masanori
(33) Name of priority country	:Japan	2)SHINODA, Tatsuya
(86) International Application No	:PCT/JP2018/035142	3)MURASHI, Yasuaki
Filing Date	:21/09/2018	4)KOBAYASHI, Makoto
(87) International Publication No	:WO 2020/059131	5)TAKESHITA, Koichi
(61) Patent of Addition to Application Number	:NA	6)MURATA, Masahiro
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention pertains to the field of batteries and addresses the problem of providing a battery and a battery pack that can be long-lived. A battery according to the present invention is provided with: an exterior container that comprises a bottom wall and a side wall extending in a first direction from the bottom wall; a sealing plate; and an electrode group which has positive and negative electrodes wound around in a flat shape with an insulating layer therebetween and which is housed in the exterior container so that the winding axial direction is orthogonal to the first direction. When the thickness TE of the positive and negative electrodes are 0.03-0.08 mm, a direction parallel to the winding axis direction is a second direction, and the direction orthogonal to the first and the second directions is a third direction, then the relation among the thickness TE(mm), the thickness TW(mm) of the electrode group in a direction parallel to the third direction, and the innermost circumferential height HIC(mm) of the electrode group in a direction parallel to the first direction satisfies an expression of $0.02 \leq (TE - Tw) / HIC \leq 0.04$.

No. of Pages : 62 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004926 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RECYCLING OF LEAD- AND TIN-BASED MATERIALS

(51) International classification	:C22C0013000000, C22B0025060000, C08K0005098000, F16C0033120000, C22B0003000000	(71) Name of Applicant : 1)IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE Address of Applicant :South Kensington Campus Faculty Building Exhibition Road London SW7 2AZ U.K.
(31) Priority Document No	:1812664.9	(72) Name of Inventor :
(32) Priority Date	:03/08/2018	1)HEKSELMAN, Ola
(33) Name of priority country	:U.K.	2)PAYNE, David
(86) International Application No	:PCT/GB2019/052172	3)WANG, Yanying
Filing Date	:02/08/2019	4)BALLANTYNE, Andrew
(87) International Publication No	:WO 2020/025970	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to a process for obtaining lead (Pb) and/or tin (Sn) from a lead- and/or tin-based material using a deep eutectic solvent.

No. of Pages : 26 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004928 A

(19) INDIA

(22) Date of filing of Application :04/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LUMBAR SUPPORT ASSEMBLY

(51) International classification :B60N0002660000,
A47C0007460000,
A61F0007000000,
B60N0002235000,
F15B0021040000
(31) Priority Document No :10-2018-0101407
(32) Priority Date :28/08/2018
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2019/007598
Filing Date :24/06/2019
(87) International Publication No :WO 2020/045806
(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)DAECHANG SEAT CO., LTD-DONGTAN

Address of Applicant :(Banggyo-dong) 6, Dongtansandan 10-
gil Hwaseong-si Gyeonggi-do 18487 Republic of Korea

(72)Name of Inventor :

1)CHO, Chan Ki

2)KIM, Jin Oh

3)CHO, Kyoung Min

(57) Abstract :

Disclosed is a lumbar support assembly which has an air bladder and constituent elements for operating the air bladder and which facilitates the assembly and maintenance thereof. A lumbar support assembly according to an embodiment comprises: a suspension mat having a first hole formed at the inner side thereof, and having a second hole formed at one edge thereof; an air bladder having a first clip hole, which is formed at one edge thereof and overlaps with the first hole; a pouch including a pump and having a second clip hole, which is formed at one edge thereof and overlaps with the second hole; a fixing clip that can be mounted in the first clip hole or the second clip hole; and an electronic valve which has a first tube connected to the air bladder and a second tube connected to the pump and which is coupled to the rear surface of the suspension mat.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004935 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A TREATMENT OF ACID MINE DRAINAGE BY HYDRIDES, AND FORMATION OF ZERO VALENT IRON NANOPARTICLES

(51) International classification	:C02F0103100000, C02F0101200000, A61K0039000000, C08K0009060000, B82Y0005000000	(71) Name of Applicant : 1)GEOKINETICS, LLC Address of Applicant :213 East Mitchell Avenue College, Pennsylvania 16803 U.S.A.
(31) Priority Document No	:62/694449	(72) Name of Inventor :
(32) Priority Date	:06/07/2018	1)BARNES, Hubert Lloyd
(33) Name of priority country	:U.S.A.	2)LASAGA, Antonio C.
(86) International Application No	:PCT/IB2019/055815	
Filing Date	:08/07/2019	
(87) International Publication No	:WO 2020/008444	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Acid mine drainage is treated with borohydride under conditions to yield highly pure iron nanoparticles. The resulting, unique, iron nanoparticles are also described.

No. of Pages : 16 No. of Claims : 27

(54) Title of the invention : ELECTRODE, CELL, AND CELL PACK

(51) International classification	:H01M0004505000, H01M0004525000, H01M0004360000, H01M0004020000, H01M0004040000	(71) Name of Applicant : 1)KABUSHIKI KAISHA TOSHIBA Address of Applicant :1-1, Shibaura 1-chome, Minato-ku, Tokyo 1050023 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)WATANABE, Yuki
(33) Name of priority country	:NA	2)TANAKA, Masanori
(86) International Application No	:PCT/JP2018/044008	3)HAGIWARA, Asuna
Filing Date	:29/11/2018	
(87) International Publication No	:WO 2020/110260	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to an embodiment, provided is an electrode provided with an active substance-containing layer containing electrode active substance particles. The electrode active substance particles include: primary particles of an electrode active substance containing lithium nickel cobalt manganese oxide represented by $\text{Li}_a\text{Ni}_x\text{Co}_y\text{Mn}_z\text{O}_2$ where $0.9 = a = 1.2$ and $x + y + z = 1$; first secondary particles which are aggregates of a plurality of the primary particles and have a first space; and second secondary particles which are aggregates of a plurality of the primary particles and do not have any space which is larger than the first space. The first particle size which corresponds to the highest frequency A in a particle size distribution of particles including the electrode active substance particles is larger than the second particle size which corresponds to the maximum frequency B in the particle size range of $0.1 \mu\text{m}$ to less than $2 \mu\text{m}$. The ratio C/F of the particle size ratio C to the pore ratio F is 10 g/mL to less than 50 g/mL, where the particle size ratio C is the ratio A/B of the highest frequency A to the maximum frequency B and the pore ratio F is the ratio D/E of the volume D of pores to the porosity E in the active substance-containing layer which are determined in mL/g by mercury porosimetry. The ratio G/H of the average distance G between primary particles within the first secondary particles to the average particle size H of the primary particles contained in the first secondary particles is 1.05 to less than 1.2.

No. of Pages : 98 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004958 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A RETRO-FITTABLE VEHICLE LOCK

(51) International classification	:B60R0025060000, B60R0025000000, F16H0063340000, E05B0073000000, F01D0005320000	(71) Name of Applicant : 1)HARDCORE AUTOMOTIVE LOCKING TECHNOLOGIES (PTY) LTD Address of Applicant :c/o Gerhard Lourens Inc Jolin House, Cnr of Marltoh & van der Merwe Street 1200 Nelspruit South Africa
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)TALJAARD, Philippus, Petrus, Erasmus
(33) Name of priority country	:NA	
(86) International Application No	:PCT/IB2018/054959	
Filing Date	:05/07/2018	
(87) International Publication No	:WO 2020/008234	
(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 driveshaft lock (10) and to a method (50) of retrofitting the driveshaft lock to a vehicle. The driveshaft lock (10) includes a rotor (17) which defines a star-shaped central aperture (20) which is configured to receive a non-circular, peripheral profile of a drive flange (13) therethrough such that the rotor (17) is configured to piggyback on the drive flange (13). The lock (10) includes a locking member (21) which is configured selectively to engage the rotor (17) in order to lock the rotor in position and prevent angular displacement thereof. Amongst other steps, the method (50) includes aligning the aperture (20) of the rotor with the profile of the drive flange, passing the rotor over the drive flange, rotating the rotor relative to the drive flange, and securing the rotor to the drive flange for rotation together with the drive flange, piggyback-style.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004964 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DEVICE FOR MASSAGING AND STRETCHING CERTAIN BODY PARTS

(51) International classification :G02B0006380000,
A61F0005010000,
A61B00900000000,
C22C0019030000,
H04J0003070000

(31) Priority Document No :P201830816

(32) Priority Date :09/08/2018

(33) Name of priority country :Spain

(86) International Application No :PCT/ES2019/070201
Filing Date :27/03/2019

(87) International Publication No :WO 2020/030834

(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)DEMAC, S.A.

Address of Applicant :C/ Vidrieros, 9 Urbanizaci3n Prado del Espino 28660 BOADILLA DEL MONTE Spain

(72)Name of Inventor :

1)DE LA TORRE BARREIRO, Jos Luis

(57) Abstract :

The invention relates to a device comprising at least two ferrules, which can have a first ferrule (3) and a second ferrule (4) joined by elements by a programmable elastic means (5) in the form of elastic tapes or rods provided with elastic memory, each ferrule (3, 4) having a container (3.1, 4.1) for accommodating vibration-generating means (6, 7) powered by means of respective wires (6.1, 7.1) from a control unit for controlling and regulating the vibration intensity, phase and speed, wherein the programmable elastic means is preferably an alloy of nickel and titanium and can also be compressed air. A device is achieved that is easy to execute and to use to treat the ailments of arthritis and arthrosis.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004973 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTIBODY AGAINST IL-1, PHARMACEUTICAL COMPOSITION AND USE THEREOF

(51) International classification :A61K0039000000,
A61K0039395000,
G01N0033680000,
C07K0016280000,
A61K0047680000

(31) Priority Document No :201810920403.6

(32) Priority Date :14/08/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/100343
Filing Date :13/08/2019

(87) International Publication No :WO 2020/034941

(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)AKESO BIOPHARMA, INC.

Address of Applicant :6 Shennong Blvd, Torch
Developmental Zone Zhongshan, Guangdong 528437 China

(72)Name of Inventor :

1)LI, Baiyong

2)XIA, Yu

3)WANG, Zhongmin Maxwell

4)ZHANG, Peng

(57) Abstract :

Provided is an antibody against IL-1, a pharmaceutical composition thereof, and a use thereof. Specifically, an antibody against IL-1 or an antigen-binding fragment thereof is provided, in which a heavy chain variable region of the antibody comprises amino acid sequences of HCDR1-HCDR3 as respectively shown in SEQ ID NO: 17-SEQ ID NO: 19, and the light chain variable region of the antibody comprises amino acid sequences of LCDR1-LCDR3 as respectively shown in SEQ ID NO: 20-SEQ ID NO: 22. The antibody can effectively bind to human IL-1, blocking the binding of IL-1 to its receptor IL-1R1, and inhibiting the activation of downstream signaling pathways of IL-1. The invention has potential for the preparation of drugs for preventing and treating autoimmune diseases, cryopyrin-associated periodic syndromes in children and adults, systemic juvenile idiopathic arthritis, gouty arthritis, cardiovascular diseases or tumors.

No. of Pages : 53 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004975 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ROCKER BASED BLEEDER ENGINE BRAKE

(51) International classification	:F01L0001180000, F01L0013060000, F02D0013040000, F01L0001240000, F01L0001260000	(71) Name of Applicant : 1)EATON INTELLIGENT POWER LIMITED Address of Applicant :30 Pembroke Road Dublin 4 Ireland
(31) Priority Document No	:201811026226	(72) Name of Inventor : 1)SARATI, Venkata
(32) Priority Date	:13/07/2018	
(33) Name of priority country	:India	
(86) International Application No	:PCT/US2019/041620	
Filing Date	:12/07/2019	
(87) International Publication No	:WO 2020/014621	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An exhaust valve rocker arm assembly operable in an engine braking mode includes a rocker arm configured to rotate about a rocker shaft defining a pressurized fluid supply conduit, the rocker arm having a fluid supply passage defined therein. An engine brake capsule is disposed in the rocker arm and in fluid communication with the fluid supply passage. The engine brake capsule is configured to selectively move from a retracted position to an extended position where the engine brake capsule engages and partially opens an exhaust valve to perform a bleeder brake operation. A reset pin assembly is configured to selectively drain fluid from the engine brake capsule.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004977 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTIBODIES BINDING TO ILT4

(51) International classification	:C07K0016280000, A61K0039000000, A61P0035000000, C07K0016300000, G01N0033500000	(71)Name of Applicant : 1)FIVE PRIME THERAPEUTICS, INC. Address of Applicant :111 Oyster Point Blvd. South San Francisco, California 94080 U.S.A. 2)BRISTOL-MYERS SQUIBB COMPANY
(31) Priority Document No	:62/695600	(72)Name of Inventor :
(32) Priority Date	:09/07/2018	1)SCHEBYE, Xiao Min
(33) Name of priority country	:U.S.A.	2)CHEN, Diana Yuhui
(86) International Application No	:PCT/US2019/040820	3)RANKIN, Andrew
Filing Date	:08/07/2019	4)DENG, Xiaodi
(87) International Publication No	:WO 2020/014132	5)TOTH, Joseph
(61) Patent of Addition to Application Number	:NA	6)LIANG, Linda
Filing Date	:NA	7)HAN, Michelle Minhua
(62) Divisional to Application Number	:NA	8)BEE, Christine
Filing Date	:NA	9)TRUONG, Hong-An
		10)SELBY, Mark J.
		11)KORMAN, Alan J.
		12)LONBERG, Nils
		13)CHEN, Guodong
		14)HUANG, Richard Y.
		15)DEYANOVA, Ekaterina G.

(57) Abstract :

The present application relates to antibodies specifically binding to immunoglobulin-like transcript 4 (ILT4), which is also known as LILRB2, LIR2, MIR10, and CD85d, and corresponding nucleic acids, host cells, compositions, and uses. In some embodiments, the antibodies bind specifically to human ILT4, but do not significantly bind to ILT2, ILT3, or ILT5, or to other members of the LILRA or LILRB families.

No. of Pages : 170 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004979 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTENNA ELEMENT MODULE

(51) International classification :H01Q0001380000,
H01Q0009040000,
H01Q0001220000,
H01Q0021000000,
H01Q0009420000

(31) Priority Document No :62/713871

(32) Priority Date :02/08/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/044525
Filing Date :31/07/2019

(87) International Publication No :WO 2020/028579

(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)VIASAT, INC.

Address of Applicant :Patent Department 6155 El Camino
Real Carlsbad, California 92009 U.S.A.

(72)Name of Inventor :

1)MATHEWS, Douglas, J.

2)WITTWER, David, C.

3)LANDERS, James, F.

(57) Abstract :

An antenna element can include a feed and a radiating element and a dielectric substrate having a first surface and a second surface, the dielectric substrate comprising the feed of the antenna element within the dielectric substrate. The antenna element module can also include an integrated circuit (IC) chip adhered to the first surface the dielectric substrate and coupled to the feed of the antenna element. The IC chip can include a circuit to adjust a signal communicated with the feed. The antenna element module can further include a plastic antenna carrier adhered to the second surface of the dielectric substrate. The plastic antenna carrier can include a body portion comprising a cavity for the radiating element of the antenna element, the radiating element positioned in the cavity of the body portion of the plastic antenna carrier.

No. of Pages : 35 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004980 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : KNEE AIRBAG ASSEMBLIES

(51) International classification	:B60R0021231000, B60R0021206000, B60R0021000000, B60R0021233800, H01Q0001400000	(71) Name of Applicant : 1)AUTOLIV ASP, INC. Address of Applicant :3350 Airport Road Ogden, Utah 84405 U.S.A.
(31) Priority Document No	:16/114026	(72) Name of Inventor :
(32) Priority Date	:27/08/2018	1)JACOBSON, James Ernie
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/045637	
Filing Date	:08/08/2019	
(87) International Publication No	:WO 2020/046552	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An inflatable knee airbag having a flexible housing is disclosed. An inflatable knee airbag may provide protection for the lower anatomy of an occupant in a vehicle collision event. The disclosed inflatable knee airbag may include components, such as the inflatable airbag cushion, inflator, etc., within a flexible housing supported by a rigid or semi-rigid mounting plate. The flexible housing may conform to the shape of enclosed components and may support and protect the enclosed components. The flexible housing may be lighter and more cost-effective than conventional housing methods.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117004981 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NR V2X - METHODS FOR DATA TRANSMISSION IN WIRELESS SYSTEMS

(51) International classification	:H04W0074080000, H04W0072040000, H04L0012851000, H04W0084120000, H04L0012801000	(71) Name of Applicant : 1)IDAC HOLDINGS, INC. Address of Applicant :200 Bellevue Parkway Suite 300 Wilmington, Delaware 19809 U.S.A.
(31) Priority Document No	:62/715659	(72) Name of Inventor :
(32) Priority Date	:07/08/2018	1)HOANG, Tuong Duc
(33) Name of priority country	:U.S.A.	2)DENG, Tao
(86) International Application No	:PCT/US2019/045265	3)FREDA, Martino M.
Filing Date	:06/08/2019	4)EL HAMSS, Aata
(87) International Publication No	:WO 2020/033381	5)PELLETIER, Benoit
(61) Patent of Addition to Application Number	:NA	6)YE, Chunxuan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and apparatus for selecting a resource for transmission may be performed by a WTRU. The method may comprise determining a priority of a data packet and determining a CBR of a resource pool. The WTRU may set a backoff counter to an initial backoff value, in accordance with at least one of the priority of the packet or the CBR. A CCA may be performed in a plurality of resource slots to determine whether the resource slots are available. The backoff counter may be decreased by the number of available resources in each slot. When the backoff counter reaches a threshold value, which may be set at 0, the resource for transmission may be randomly selected. The WTRU may then transmit data to another WTRU on the randomly selected resource.

No. of Pages : 56 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005005 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PESTICIDALLY-ACTIVE BICYCLIC HETEROAROMATIC COMPOUNDS

(51) International classification	:A01N004390000, C07D0471040000, A01N0043400000, C07D0307910000, C07D0213890000	(71) Name of Applicant : 1)SYNGENTA CROP PROTECTION AG Address of Applicant :Rosentalstrasse 67 4058 Basel Switzerland
(31) Priority Document No	:18187790.3	(72) Name of Inventor :
(32) Priority Date	:07/08/2018	1)BIGOT, Aurelien
(33) Name of priority country	:EPO	2)SCHAETZER, J¼rgen, Harry
(86) International Application No	:PCT/EP2019/070666	3)JUNG, Pierre, Joseph, Marcel
Filing Date	:31/07/2019	4)STOLLER, Andr
(87) International Publication No	:WO 2020/030503	5)GAGNEPAIN, Julien, Daniel, Henri
(61) Patent of Addition to Application Number	:NA	6)HALL, Roger, Graham
Filing Date	:NA	7)RENDINE, Stefano
(62) Divisional to Application Number	:NA	8)COMPAGNONE, Nicola
Filing Date	:NA	

(57) Abstract :

A compound of formula (I) wherein the substituents are as defined in claim 1, and the agrochemically acceptable salts, stereoisomers, enantiomers, tautomers and N-oxides of those compounds, can be used as insecticides.

No. of Pages : 114 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005006 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMMUNICATION SYSTEM

(51) International classification	:H04W0072120000, H04W0072040000, H04L0005000000, H04L0001180000, H04W0088080000	(71) Name of Applicant : 1)NEC CORPORATION Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(31) Priority Document No	:1813132.6	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)LIANG, Caroline Quanyi
(33) Name of priority country	:U.K.	2)SASAKI, Takahiro
(86) International Application No	:PCT/JP2019/026976	
Filing Date	:08/07/2019	
(87) International Publication No	:WO 2020/031583	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A communication system is disclosed in which a base station configures an item of user equipment (UE) with pre-emptable communication resources (e.g. a mini-slot), within a set of communication resources (e.g. a slot) allocated to the UE. The UE performs uplink communication of enhanced Mobile Broadband (eMBB) data over the set of communication resources. When the UE receives an 'UL Pre-emption Indication', it pre-empts the pre-emptable communication resources for Ultra-Reliable and Low-Latency Communications (URLLC) communications by a different UE.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005008 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIGHT-EMITTING DEVICE AND DISPLAY DEVICE COMPRISING SAME

(51) International classification	:H01L0033480000, H01L0033620000, H01G0004228000, H01G0004005000, F21Y0115100000	(71) Name of Applicant : 1)SAMSUNG DISPLAY CO., LTD. Address of Applicant :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do 17113 Republic of Korea
(31) Priority Document No	:10-2018-0080156	(72) Name of Inventor :
(32) Priority Date	:10/07/2018	1)LIM, Jae Ik
(33) Name of priority country	:Republic of Korea	2)CHOI, Hae Yun
(86) International Application No	:PCT/KR2018/016252	
Filing Date	:19/12/2018	
(87) International Publication No	:WO 2020/013407	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A light-emitting device may comprise: a substrate; a light-emitting element provided on the substrate and having a first end and a second end in the longitudinal direction; a first and a second partition spaced a predetermined distance apart from each other with the light-emitting element interposed therebetween; a first electrode provided on the first partition while being adjacent to the first end of the light-emitting element; a second electrode provided on the second partition while being adjacent to the second end of the light-emitting element; a first contact electrode connecting the first electrode to the first end of the light-emitting element; and a second contact electrode connecting the second electrode to the second end of the light-emitting element. When viewed in plan, the first electrode may partially overlap the first partition and the second electrode may partially overlap the second partition.

No. of Pages : 71 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005010 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD FOR RECOVERING VALUABLE OBJECT FROM SOLAR CELL MODULE

(51) International classification	:H01L0031049000, C22B0007000000, H01L0031048000, B09B0003000000, H01L0031042000	(71) Name of Applicant : 1)TOKUYAMA CORPORATION Address of Applicant :1-1, Mikage-cho, Shunan-shi, Yamaguchi 7458648 Japan
(31) Priority Document No	:2018-147407	(72) Name of Inventor :
(32) Priority Date	:06/08/2018	1)SASAI Masaru
(33) Name of priority country	:Japan	2)MINABE Yuichiro
(86) International Application No	:PCT/JP2019/028486	
Filing Date	:19/07/2019	
(87) International Publication No	:WO 2020/031661	
(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 addresses the problem of providing a method for efficiently and simply recovering a valuable object included in a solar cell module having a resin back sheet, etc., by removing a resin component from the solar cell module in order to recycle the valuable object. The present invention pertains to a method for recovering a valuable object from a solar cell module, the method being characterized by including: a loading step in which a solar cell module (X), which has a resin back sheet and a resin layer for sealing, is loaded on a heat-resistant porous molded body (A) so that the back sheet surface is on the lower side; and a heating step in which a loaded article including the solar cell module (X) and the porous molded body (A) is heated inside a heating furnace in an oxidizing atmosphere, and the resin component is molded and then combusted.

No. of Pages : 37 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005013 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD, IMAGING DEVICE, MOBILE BODY DEVICE, AND COMPUTER PROGRAM

(51) International classification	:G08G0001160000, H04N0007180000, G06K0009000000, G06T0007000000, H04N0005232000	(71) Name of Applicant : 1)SONY SEMICONDUCTOR SOLUTIONS CORPORATION Address of Applicant :4-14-1 Asahicho, Atsugi-shi, Kanagawa 2430014 Japan
(31) Priority Document No	:2018-171382	(72) Name of Inventor :
(32) Priority Date	:13/09/2018	1)SAITO, Hitoshi
(33) Name of priority country	:Japan	2)TAKAGI, Yoshimitsu
(86) International Application No	:PCT/JP2019/030046	3)ONO, Toshiki
Filing Date	:31/07/2019	4)ZAMA, Masafumi
(87) International Publication No	:WO 2020/054240	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An information processing device and an information processing method for performing processing for controlling exposure of an on-board camera, an imaging device, a mobile body device, and a computer program are provided. The information processing device is equipped with: a recognition unit for recognizing an image obtained by a processing unit by processing an output signal from an image sensor; and a control unit for controlling an imaging operation of the image sensor and/or the processing operation of the processing unit on the basis of a recognition result of the recognition unit. The image sensor is used on board a vehicle, and the recognition unit recognizes an image of a surrounding vehicle and/or a road surface. In addition, the control unit controls detection and/or development processing of an area corresponding to the surrounding vehicle or the road surface in the image.

No. of Pages : 69 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005014 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SURGICAL STAPLER ANVILS WITH STAPLE DIRECTING PROTRUSIONS AND TISSUE STABILITY FEATURES

(51) International classification :A61B0017072000,
A61B0017290000,
A61B0017068000,
A61B0017000000,
A61B0017064000

(31) Priority Document No :16/105150
(32) Priority Date :20/08/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2019/056874
Filing Date :13/08/2019
(87) International Publication No :WO 2020/039306
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes
Industrial Park Guaynabo, USA, 00969 U.S.A.

(72)Name of Inventor :

1)HARRIS, Jason L.

2)SHELTON, IV, Frederick E.

3)HESS, Christopher J.

4)BAXTER, III, Chester O.

(57) Abstract :

An anvil for a surgical stapler. The anvil includes a staple-forming undersurface that has lines of staple-forming pockets that are configured to establish a flexible staple line. A plurality of anvil protrusions protrude from planar non-forming surface portions such that each anvil protrusion is adjacent to at least two staple-forming pockets to direct staples therein during a staple firing process and to engage the tissue that is being stapled.

No. of Pages : 113 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005015 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SWITCHING ARRANGEMENTS FOR MOTOR POWERED ARTICULATABLE SURGICAL INSTRUMENTS

(51) International classification	:A61B0017290000, A61B0017072000, A61B0017000000, A61B0090000000, A61B0017068000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, USA, 00969 U.S.A.
(31) Priority Document No	:16/105160	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)HARRIS, Jason L.
(33) Name of priority country	:U.S.A.	2)SHELTON, IV, Frederick E.
(86) International Application No	:PCT/IB2019/056912	3)BAXTER, III, Chester O.
Filing Date	:14/08/2019	
(87) International Publication No	:WO 2020/039317	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A surgical instrument that includes a surgical end effector that is articulatable relative to a shaft between a home position and a maximum articulated position. A motor operably interfaces with the surgical end effector to move the end effector between the home position and the maximum articulated position. The motor is configured to operate at a first motor speed to articulate the end effector from the home position to a first articulated position between the home position and the maximum articulated position and to operate at a second motor speed to articulate the surgical end effector from the first articulated position to the maximum articulated position.

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005016 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SURGICAL STAPLING DEVICES WITH IMPROVED CLOSURE MEMBERS

(51) International classification	:A61B0017000000, A61B0017290000, A61B0017072000, A61B0017068000, A61B0090000000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.
(31) Priority Document No	:16/105122	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)SHELTON, IV, Frederick E.
(33) Name of priority country	:U.S.A.	2)HARRIS, Jason L.
(86) International Application No	:PCT/IB2019/056879	3)BAXTER, III, Chester O.
Filing Date	:13/08/2019	4)BAKOS, Gregory J.
(87) International Publication No	:WO 2020/039309	5)MORGAN, Jerome R.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Closure systems and members for actuating jaws of a surgical end effector. The closure systems include a closure member that is configured to interact with corresponding portions of the jaws to establish improved closure and clamping loads.

No. of Pages : 73 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005017 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FABRICATING TECHNIQUES FOR SURGICAL STAPLER ANVILS

(51) International classification	:A61B0017072000, B22F0003220000, A61B0017290000, A61B0017068000, A61B0017000000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.
(31) Priority Document No	:16/105098	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)HARRIS, Jason L.
(33) Name of priority country	:U.S.A.	2)SHELTON, IV, Frederick E.
(86) International Application No	:PCT/IB2019/056878	3)BAXTER, III, Chester O.
Filing Date	:13/08/2019	
(87) International Publication No	:WO 2020/039308	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods of manufacturing an anvil for a surgical stapler. In various arrangements, the methods include forming an anvil body by rolling, extruding, metal injection molding or electrochemical machining. Preliminary staple-forming pocket configurations are formed in the anvil body by machining or during the metal injection molding or electro-chemical machining processes. The staple-forming pockets are provided with a final configuration using another manufacturing step such as coining or forging.

No. of Pages : 80 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005020 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIQUID DESSICANT COOLER SYSTEM AND METHOD

(51) International classification	:F24F0003140000, F24F0005000000, B01D0053260000, A01G0009240000, B60H0001000000	(71) Name of Applicant : 1)KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY Address of Applicant :4700 King Abdullah University of Science and Technology Thuwal, 23955-6900 Saudi Arabia
(31) Priority Document No	:62/712355	(72) Name of Inventor :
(32) Priority Date	:31/07/2018	1)LEFERS, Ryan Michael
(33) Name of priority country	:U.S.A.	2)TESTER, Mark Alfred
(86) International Application No	:PCT/IB2019/053399	3)LEIKNES, TorOve
Filing Date	:24/04/2019	
(87) International Publication No	:WO 2020/026040	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A liquid desiccant system for controlling a temperature inside an enclosure, includes an evaporative cooler system (210) configured to cool an air stream AA entering the enclosure (202) during day time; a liquid desiccant night cooler (LDNC) system (220) configured to cool down and dry an inside air stream AE of the enclosure (202) by using a liquid desiccant (304, 534) during the night; and a controller (260) configured to switch on the LDNC system (220) during the night.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005021 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIQUID DESICCANT BASED HUMIDITY PUMP, EVAPORATIVE COOLER, AND AIR PURIFICATION SYSTEMS

(51) International classification	:F24F0003140000, F24F0005000000, B01D0053260000, G11B0033140000, B01D0053140000	(71) Name of Applicant : 1)KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY Address of Applicant :4700 King Abdullah University of Science and Technology Thuwal, 23955-6900 Saudi Arabia
(31) Priority Document No	:62/711890	(72) Name of Inventor :
(32) Priority Date	:30/07/2018	1)LEFERS, Ryan Michael
(33) Name of priority country	:U.S.A.	2)TESTER, Mark Alfred
(86) International Application No	:PCT/IB2019/056332	3)LEIKNES, TorOve
Filing Date	:24/07/2019	4)HONG, Peiyong
(87) International Publication No	:WO 2020/026084	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A liquid desiccant system (100) for controlling a temperature inside an enclosure. The system (100) includes a liquid desiccant evaporative cooler (LDEC) system (110) configured to cool down an incoming air stream (AA) entering the enclosure by using a first liquid desiccant (312); a liquid desiccant humidity pump (LDHR) system (120) configured to remove humidity from a humid air stream (AD) that exists the enclosure by using a second liquid desiccant (412); and a storage system (130) fluidly connected to the LDEC system (110) and to the LDHR system (120) and configured to separately store the first liquid desiccant (312) and the second liquid desiccant (412). The humid air stream (AD) includes water vapors from the first liquid desiccant (312) and from inside the enclosure.

No. of Pages : 35 No. of Claims : 21

(54) Title of the invention : APPARATUS AND METHOD FOR TREATING A SUBSTRATE WITH SOLID PARTICLES

(51) International classification	:D06F0035000000, D06F0037060000, D06F0037040000, D06F0058020000, D06F0037080000	(71) Name of Applicant : 1)XEROS LIMITED Address of Applicant :Unit 2, Evolution Advanced Manufacturing Park Whittle Way Catcliffe Rotherham South Yorkshire S60 5BL U.K.
(31) Priority Document No	:1811557.6	(72) Name of Inventor :
(32) Priority Date	:13/07/2018	1)JONES, Gareth Evan Lyn
(33) Name of priority country	:U.K.	2)HOLDEN, Christopher
(86) International Application No	:PCT/EP2019/068906	3)STEVENS, David
Filing Date	:12/07/2019	
(87) International Publication No	:WO 2020/012024	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus, method and kit for use in the treatment of substrates with a solid particulate material, said apparatus comprising a housing having mounted therein a rotatably mounted drum having an inner surface and an end wall, and access means for introducing said substrates into said drum, wherein (a) said drum comprises storage means for storage of said solid particulate material; (b) said drum has at least one elongate protrusion (1) located on said inner surface of said drum wherein the elongate protrusion (1) extends in a direction away from said end wall, wherein said elongate protrusion (1) has an end proximal to the end wall and an end distal to the end wall; (c) the or each elongate protrusion comprises a collecting aperture (3a, 3b, 3c, 3d, 3e) and a collecting flow path to facilitate flow of said particulate material from the interior of said drum to said storage means, wherein said collecting aperture (3a, 3b, 3c, 3d, 3e) defines the start of a collecting flow path, and wherein the same elongate protrusion (1) further comprises a dispensing aperture (6a, 6b, 6c, 6d, 6e, 6f) and a dispensing flow path to facilitate flow of said solid particulate material from said storage means to the interior of said drum, wherein said dispensing aperture (6a, 6b, 6c, 6d, 6e, 6f) defines the end of a dispensing flow path; and (d) wherein said flow of said solid particulate material from the storage means towards the interior of the drum is facilitated by the rotation of said drum in a dispensing direction and the flow of said solid particulate material from the interior of the drum towards the storage means is facilitated by the rotation of said drum in a collecting direction, wherein rotation in the dispensing direction is in the opposite rotational direction to rotation in the collecting direction, characterised in that said collecting flow path and said dispensing flow path are partially but not completely coextensive.

No. of Pages : 31 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005023 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : APPARATUS AND METHOD FOR TREATING A SUBSTRATE WITH SOLID PARTICLES

(51) International classification :D06F0035000000,
D06F0037060000,
D06F0037040000,
D06F0037020000,
D06F0058020000
(31) Priority Document No :1811568.3
(32) Priority Date :13/07/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/068913
Filing Date :12/07/2019
(87) International Publication No :WO 2020/012027
(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)XEROS LIMITED

Address of Applicant :Unit 2, Evolution Advanced
Manufacturing Park Whittle Way Catcliffe Rotherham South
Yorkshire S60 5BL U.K.

(72)Name of Inventor :

1)JONES, Gareth Evan Lyn

2)HOLDEN, Christopher

3)STEVENS, David

(57) Abstract :

Aspects relate to a drum (10) for rotatably mounting in an apparatus for use in the treatment of substrates with a solid particulate material; a method of treating a substrate comprising agitating the substrate in a drum (10); and a kit for converting an apparatus to comprise the drum (10). The drum has an inner surface (15) and an end wall (2) and access means (70) for introducing said substrates into said drum, wherein said drum (10) comprises: (a) storage means (4) for storage of said solid particulate material, wherein at least part of said storage means is or comprises at least one cavity located in said end wall (2) of said drum (10); and (c) a dispensing aperture (12) for dispensing solid particulate material from said storage means (4) into the interior of said drum (10), wherein said dispensing aperture (12) is comprised in said end wall (2) of said drum, characterised in that said drum (10) comprises a valve (6) that is actuatable between a closed position and an open position, wherein when said valve (6) is in said closed position said solid particulate material is prevented from passing through said dispensing aperture (12) and when said valve (6) is in said open position said solid particulate material is permitted to pass through said dispensing aperture (12).

No. of Pages : 31 No. of Claims : 68

(54) Title of the invention : APPARATUS AND METHOD FOR TREATING A SUBSTRATE WITH SOLID PARTICLES

(51) International classification	:D06F0035000000, D06F0037060000, D06F0037040000, A47K0010360000, D06F0058020000	(71) Name of Applicant : 1)XEROS LIMITED Address of Applicant :Unit 2, Evolution Advanced Manufacturing Park Whittle Way Catcliffe Rotherham South Yorkshire S60 5BL U.K.
(31) Priority Document No	:1811569.1	(72) Name of Inventor :
(32) Priority Date	:13/07/2018	1)JONES, Gareth Evan Lyn
(33) Name of priority country	:U.K.	2)HOLDEN, Christopher
(86) International Application No	:PCT/EP2019/068911	3)STEVENS, David
Filing Date	:12/07/2019	
(87) International Publication No	:WO 2020/012026	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus, method and kit for use in the treatment of substrates with a solid particulate material, said apparatus comprising a housing having mounted therein a rotatably mounted drum having an inner surface and an end wall and access means for introducing said substrates into said drum, the drum preferably having an elongate protrusion (1) located on said inner surface of said drum, wherein (a) said drum comprises storage means for storage of said solid particulate material; and (b) said drum comprises a first collecting flow path to facilitate flow of said solid particulate material from the interior of said drum to said storage means when said drum rotates in a first collecting direction, characterised in that said drum comprises a second collecting flow path to facilitate flow of said solid particulate material from the interior of said drum to said storage means when said drum rotates in a second collecting direction, wherein said second collecting direction is in the opposite rotational direction to said first collecting direction, and wherein said first collecting flow path and said second collecting flow path are different flow paths.

No. of Pages : 41 No. of Claims : 89

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005025 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SENOLYTIC COMPOSITIONS AND USES THEREOF

(51) International classification	:A61K0031707200, A61K0045060000, C07H0005040000, A61P0035040000, A61P0009100000	(71) Name of Applicant : 1)RUBEDO LIFE SCIENCES, INC. Address of Applicant :1729 Heron Avenue Sunnyvale, California 94087 U.S.A.
(31) Priority Document No	:62/696486	(72) Name of Inventor :
(32) Priority Date	:11/07/2018	1)GALLOP, Mark A.
(33) Name of priority country	:U.S.A.	2)QUARTA, Marco
(86) International Application No	:PCT/US2019/041283	3)KLEIN, Julian
Filing Date	:11/07/2019	
(87) International Publication No	:WO 2020/014409	
(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 senolytic agents for selectively killing senescent cells that are associated with numerous pathologies and diseases, including age-related pathologies and diseases. As disclosed herein, senescent cell-associated diseases and disorders may be treated or prevented by administering at least one senolytic agent or pharmaceutical compositions thereof. The senescent cell-associated diseases or disorders treated or prevented by the methods described herein include, but are not limited to, cardiovascular diseases or disorders, cardiovascular diseases and disorders associated with arteriosclerosis, such as atherosclerosis, idiopathic pulmonary fibrosis (IPF), chronic obstructive pulmonary disease (COPD), osteoarthritis, inflammatory diseases or disorders, autoimmune diseases or disorders, pulmonary diseases or disorders, neurological diseases or disorders, dermatological diseases or disorders, chemotherapeutic side effects, radiotherapy side effects, metastasis and metabolic diseases.

No. of Pages : 166 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005028 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : DISTANCE PROTECTION OF ELECTRIC POWER DELIVERY SYSTEMS USING TIME DOMAIN AND FREQUENCY DOMAIN

(51) International classification	:H02H0007260000, G01R0031080000, H02H0003400000, H02H0001000000, G01R0031110000	(71) Name of Applicant : 1)SCHWEITZER ENGINEERING LABORATORIES, INC. Address of Applicant :2350 NE Hopkins Court Pullman, Washington 99163 U.S.A.
(31) Priority Document No	:16/132117	(72) Name of Inventor :
(32) Priority Date	:14/09/2018	1)KASZTENNY, Bogdan Z.
(33) Name of priority country	:U.S.A.	2)MYNAM, Mangapathirao Venkata
(86) International Application No	:PCT/US2019/033694	3)DANIELS, Chadburn Troy
Filing Date	:23/05/2019	
(87) International Publication No	:WO 2020/055461	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Distance protection of electric power delivery systems are disclosed herein where a fault within a zone of protection is detected using time-domain fault detection supervised by frequency-domain fault detection. The distance fault detection may be asserted when the real or imaginary parts of the time-domain operating and polarizing quantities are both positive or both negative and an angle between the frequency domain operating and polarizing quantities is within a predetermined range. Additional security may be provided using a level check, a sign consistency check, or a disturbance detector.

No. of Pages : 26 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005033 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : POROUS STRUCTURE FOR EXHAUST GAS PURIFICATION CATALYST, EXHAUST GAS PURIFICATION CATALYST USING POROUS STRUCTURE, AND EXHAUST GAS PURIFICATION METHOD

(51) International classification	:B01D0053940000, B01J0037020000, B01J0035100000, B01J0023630000, B01J0035040000	(71) Name of Applicant : 1)MITSUI MINING & SMELTING CO., LTD. Address of Applicant :1-11-1 Osaki, Shinagawa-ku, Tokyo 1418584 Japan
(31) Priority Document No	:2018-155789	(72) Name of Inventor :
(32) Priority Date	:22/08/2018	1)HOSOI, Yusuke
(33) Name of priority country	:Japan	2)IWAKURA, Hironori
(86) International Application No	:PCT/JP2019/030646	3)WAKABAYASHI, Takashi
Filing Date	:05/08/2019	4)NAKAHARA, Yunosuke
(87) International Publication No	:WO 2020/039903	
(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 addresses the problem of providing a porous structure for an exhaust gas purification catalyst, the porous structure having an excellent light-off performance. This porous structure for an exhaust gas purification catalyst includes an oxygen storage component and an inorganic porous body, and the ratio of the volume of a pore having a pore diameter not less than 15 nm but less than 25 nm to the volume of a pore having a pore diameter of not less than 5 nm but less than 15 nm is 1.3-2.5 in a pore volume distribution measured by a mercury penetration porosimeter. Preferably, there is at least one peak-top within the pore diameter range of not less than 15 nm but less than 25 nm.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005044 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RANDOM ACCESS METHOD, COMMUNICATION APPARATUS, CHIP, AND STORAGE MEDIUM

(51) International classification	:H04W0074080000, H04W0056000000, H04W0048080000, H04W0074040000, H04W0072040000
(31) Priority Document No	:201810893405.0
(32) Priority Date	:07/08/2018
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2019/098630
Filing Date	:31/07/2019
(87) International Publication No	:WO 2020/029849
(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.

Address of Applicant :Huawei Administration Building,
Bantian Longgang District Shenzhen, Guangdong 518129 China

(72)Name of Inventor :

1)LI, Yuan

(57) Abstract :

Embodiments of the present application provide a random access method, a communication apparatus, a chip, and a storage medium. A network device transmits a first synchronization signal block (SSB) by using a first candidate SSB opportunity, and/or transmits a second SSB by using a second candidate SSB opportunity, wherein the first candidate SSB opportunity and the second candidate SSB opportunity both correspond to a first random access channel time frequency code resource; the network device receives random access information that is transmitted by a terminal device by using the first random access channel time frequency code resource. In the embodiments of the present application, by mapping the same PRACH time frequency code resource for two candidate SSB opportunities, even if one candidate SSB opportunity cannot be used for transmitting the SSB because it fails to listen to a channel, and the other candidate SSB opportunity can be used for transmitting the other SSB because it succeeds to listen to the channel, the PRACH time frequency code resource still can be detected to be used by the terminal device of the other SSB, so that the problem of wasting a PRACH resource is avoided.

No. of Pages : 63 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005045 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND DEVICE FOR USE IN REPORTING CSI

(51) International classification	:H04L0005000000, B66B0005000000, H04H0060580000, H04W0074080000, H04W0080100000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building Bantian, Longgang Shenzhen, Guangdong 518129 China
(31) Priority Document No	:201810912190.2	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)SHAO, Jiafeng
(33) Name of priority country	:China	2)LYU, Yongxia
(86) International Application No	:PCT/CN2019/099709	
Filing Date	:08/08/2019	
(87) International Publication No	:WO 2020/030025	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided in the present application are a method and device for use in reporting CSI. Insofar as first indication information indicating the triggering of the reporting of CSI is received, a terminal device determines a first time interval from multiple candidate first time intervals, the first time interval being used for determining whether first indication information is valid, the terminal device reports the CSI on the basis of the first time interval, thus increasing communication efficiency.

No. of Pages : 66 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005046 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A BOX ERECTING METHOD AND SYSTEM

(51) International classification	:B31B0050000000, B31B0100000000, B31B0050260000, B65D0005020000, B31B0120300000	(71) Name of Applicant : 1)PACKSIZE LLC Address of Applicant :3760 W. Smart Pack Way Salt Lake City, Utah 84104 U.S.A.
(31) Priority Document No	:1851054-5	(72) Name of Inventor :
(32) Priority Date	:05/09/2018	1)PETTERSSON, Niklas
(33) Name of priority country	:Sweden	2)BLOMBERG, Johan
(86) International Application No	:PCT/US2019/049535	
Filing Date	:04/09/2019	
(87) International Publication No	:WO 2020/096685	
(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 producing boxes and a method for erecting a box from a box template (3), a box erecting system and a box production system, wherein said method for erecting boxes comprises the steps of: folding (S1) two first bottom flaps (28) and two second bottom flaps (29) of the box template (3), which first and second bottom flaps (28, 29) will constitute a bottom of the box when it is erected and which two first bottom flaps (28) are opposing each other and which two second bottom flaps (29) are opposing each other in the box when it is erected; attaching (S2) the box template (3) to a frame (5); rotating (S3) the frame (5) for wrapping the box template (3) around the frame.

No. of Pages : 14 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005047 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ADJUSTABLE BLADE ASSEMBLY HAVING MAGNETIC TENSIONING

(51) International classification	:B26B0019380000, B26B0019140000, B26B0019200000, B26B0019040000, B26B0019060000	(71) Name of Applicant : 1)ANDIS COMPANY Address of Applicant :1800 Renaissance Boulevard Sturtevant, Wisconsin 53177 U.S.A.
(31) Priority Document No	:62/719281	(72) Name of Inventor :
(32) Priority Date	:17/08/2018	1)WERNER, Edwin Alen
(33) Name of priority country	:U.S.A.	2)TRINGALI, Richard J.
(86) International Application No	:PCT/US2019/046656	3)TITZKOWSKI, Ervin
Filing Date	:15/08/2019	4)NOVAK, Joseph
(87) International Publication No	:WO 2020/037124	5)GROSS, Jeffrey D.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A hair clipper or cutter is provided with an adjustment slider that adjusts the gap between an inner and outer blade. A yoke is attached to the inner blade. The adjustment slider may be configured with preset gap lengths and may be adjustable before, after, or during a hair cutting operation. A T-guide couples the adjustment slider to the inner blade to slidably move the inner blade relative to the outer blade. The yoke, inner blade, outer blade and/or T-guide may be magnetized to create an attractive or repulsive force between the inner blade and the outer blade. In some embodiments, the yoke is not metallic. The magnetized yoke may be a non-conductive magnet carrier (e.g., plastic) or conductive material (e.g., ferromagnetic).

No. of Pages : 31 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005048 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PATCH

(51) International classification :A61Q0011000000,
C09J0007380000,
A61K0009700000,
C09J0133040000,
C08K0005090000

(31) Priority Document No :1811834.9
(32) Priority Date :19/07/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2019/052003
Filing Date :18/07/2019
(87) International Publication No :WO 2020/016581
(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)MEDHERANT LTD
Address of Applicant :The Venture Centre University of
Warwick Science Park Coventry West Midlands CV4 7EZ U.K.
(72)**Name of Inventor :**
1)HADDLETON, David
2)NURUMBETOV, Gabit
3)ROSS, Andrew
4)NIKOLAOU, Vasiliki

(57) Abstract :

The invention relates to novel compositions comprising urea and amine functionalised silyl containing polymers which, in combination with tackifying resins, are used as pressure sensitive adhesives and specifically, drug delivery patches. Said compositions can be synthesised with less difficulty compared to urethane analogues and are compatible with a wide array of different drugs.

No. of Pages : 37 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005052 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN OPHTHALMIC LENS FOR IMPROVING NIGHT DRIVING VISION AND A METHOD FOR OBTAINING THE SAME

(51) International classification	:F21V0009300000, F21Y0115100000, H01L0033500000, G02B0001115000, G02C0007100000	(71) Name of Applicant : 1)ESSILOR INTERNATIONAL Address of Applicant :147, rue de Paris 94220 CHARENTON-LE-PONT France
(31) Priority Document No	:18306265.2	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)MONTECELO, Susana
(33) Name of priority country	:EPO	2)DUBAIL, Marie
(86) International Application No	:PCT/EP2019/075541	3)LECHAT, Cline
Filing Date	:23/09/2019	4)ROBIN, Cline
(87) International Publication No	:WO 2020/064640	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This ophthalmic lens has a front face and a rear face, and has: a light cut factor CutLED of at least 20% for wavelengths ranging from 380 nm to 500 nm, CutLED being defined by: formula (I), where \sum is a discrete or continuous sum operator, λ is the wavelength in nm, lens T% is the transmittance of said lens in % and LED emission% is the spectral distribution of a white light emitting diode in %; and an antireflective coating on the front and rear faces having a luminous reflectance in the visible region for scotopic vision Rv' lower than or equal to 1.5%.

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005057 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTIBODY MOLECULES THAT BIND CD137 AND OX40

(51) International classification	:C07K0016280000, A61K0039000000, A61P0035000000, A61K0039395000, A61P0035020000	(71) Name of Applicant : 1)F-STAR BETA LIMITED Address of Applicant :Eddeva B920 Babraham Research Campus Cambridge Cambridgeshire CB22 3AT U.K.
(31) Priority Document No	:1811407.4	(72) Name of Inventor :
(32) Priority Date	:12/07/2018	1)TUNA, Mihriban
(33) Name of priority country	:U.K.	2)GASPAR, Miguel
(86) International Application No	:PCT/EP2019/068796	3)MORROW, Michelle
Filing Date	:12/07/2019	4)POON, Edmund
(87) International Publication No	:WO 2020/011966	
(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 antibody molecules that bind and are able to agonise both CD137 and OX40. The antibody molecules comprise a CDR-based binding site for CD137, and an OX40 antigen-binding site that is located in a constant domain of the antibody molecule. The antibody molecules of the invention find application, for example, in the treatment of diseases, such as cancer and infectious diseases.

No. of Pages : 194 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005059 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTI-MESOTHELIN ANTIBODIES

(51) International classification	:A61P0035000000, C07K0016300000, A61K0039395000, C07K0016180000, A61K0039000000	(71) Name of Applicant : 1)F-STAR BETA LIMITED Address of Applicant :Eddeva B920 Babraham Research Campus Cambridge Cambridgeshire CB22 3AT U.K.
(31) Priority Document No	:1811415.7	(72) Name of Inventor :
(32) Priority Date	:12/07/2018	1)MUNOZ-OLAYA, Jose
(33) Name of priority country	:U.K.	2)FERTIN, Remi
(86) International Application No	:PCT/EP2019/068800	3)WOLLERTON, Francisca
Filing Date	:12/07/2019	4)TUNA, Mihriban
(87) International Publication No	:WO 2020/011970	5)BREWIS, Neil
(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 antibody molecules that bind mesothelin (MSLN). The antibody molecules find application in the treatment and diagnosis of diseases and disorders, such as cancer.

No. of Pages : 137 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005061 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FC BINDING FRAGMENTS COMPRISING A CD137 ANTIGEN-BINDING SITE

(51) International classification	:C07K0016280000, A61K0039395000, A61K0039000000, A61P0035000000, C12N0015850000	(71) Name of Applicant : 1)F-STAR BETA LIMITED Address of Applicant :Eddeva B920 Babraham Research Campus Cambridge Cambridgeshire CB22 3AT U.K.
(31) Priority Document No	:1811408.2	(72) Name of Inventor :
(32) Priority Date	:12/07/2018	1)LAKINS, Matthew
(33) Name of priority country	:U.K.	2)MUNOZ-OLAYA, Jose
(86) International Application No	:PCT/EP2019/068803	3)PECHOUCKOVA, Sarka
Filing Date	:12/07/2019	4)TUNA, Mihriban
(87) International Publication No	:WO 2020/011972	
(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 specific binding members that bind CD137. The specific binding members comprise a CD137 antigen-binding site located in a constant domain of the specific binding member and find application in the treatment of cancer and infectious diseases, for example.

No. of Pages : 148 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005063 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTIBODY MOLECULES THAT BIND PD-L1 AND CD137

(51) International classification	:C07K0016280000, A61P0035000000, A61K0039000000, A61K0039395000, A61K0045060000	(71) Name of Applicant : 1)F-STAR BETA LIMITED Address of Applicant :Eddeva B920 Babraham Research Campus Cambridge Cambridgeshire CB22 3AT U.K.
(31) Priority Document No	:1811405.8	(72) Name of Inventor :
(32) Priority Date	:12/07/2018	1)LAKINS, Matthew
(33) Name of priority country	:U.K.	2)MUNOZ-OLAYA, Jose
(86) International Application No	:PCT/EP2019/068793	3)WOLLERTON, Francisca
Filing Date	:12/07/2019	4)BATEY, Sarah
(87) International Publication No	:WO 2020/011964	5)TUNA, Mihriban
(61) Patent of Addition to Application Number	:NA	6)KOERS, Alexander
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application relates to antibody molecules that bind both PD-L1 and CD 137 and are able to induce agonism of CD137. The antibody molecules comprise a CDR-based binding site for PD-L1, and a CD137 antigen-binding site that is located in a constant domain of the antibody molecule. The antibody molecules of the invention find application, for example, in the treatment of diseases, such as cancer.

No. of Pages : 177 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005067 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PLENOPTIC OCULAR DEVICE

(51) International classification :G02B0003000000,
G02B0027000000,
G02B0030000000,
G02B0030270000,
H04N0013344000

(31) Priority Document No :P201830812

(32) Priority Date :08/08/2018

(33) Name of priority country :Spain

(86) International Application No :PCT/ES2019/070559
Filing Date :08/08/2019

(87) International Publication No :WO 2020/030841

(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)UNIVERSITAT DE VALENCIA
Address of Applicant :AVDA. BLASCO IBA‘EZ, 13 46010
VALENCIA Spain
2)UNIVERSIDAD NACIONAL DE COLOMBIA

(72)Name of Inventor :
1)MARTINEZ CORRAL, Manuel
2)SAAVEDRA TORTOSA, Genaro
3)SCROFANI, Gabriele
4)TOLOSA RUIZ, Angel
5)GARCIA SUCERQUIA, Jorge

(57) Abstract :

The invention relates to a plenoptic ocular device (1) intended to be coupled in an ocular port of an optical instrument configured to generate a real image of a sample on a focal plane situated in a region close to said ocular port, said plenoptic ocular device being configured to capture said real image, generate a set of elemental images and send them to recording means with spatial discretisation (8) which in turn comprises communication means configured to transmit the set of elemental images to external image processing means. The plenoptic ocular device (1) comprises a tubular element (2), a coupling element (3), a diaphragm (4), a first lens arrangement (5), a second lens arrangement (6), a lens array (7) and a recording means with spatial discretisation (8).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005079 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ARTICULATABLE MOTOR POWERED SURGICAL INSTRUMENTS WITH DEDICATED ARTICULATION MOTOR ARRANGEMENTS

(51) International classification	:A61B0017290000, A61B0017000000, A61B0017072000, A61B0017068000, A61B0090000000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, USA, 00969 U.S.A.
(31) Priority Document No	:16/105119	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)HARRIS, Jason L.
(33) Name of priority country	:U.S.A.	2)SHELTON, IV, Frederick E.
(86) International Application No	:PCT/IB2019/056910	3)BAXTER, III, Chester O.
Filing Date	:14/08/2019	
(87) International Publication No	:WO 2020/039316	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A surgical instrument that includes a housing that defines a longitudinal axis. An elongated shaft assembly is operably coupled to the housing by a shaft rotator assembly for selective rotation about the longitudinal axis relative to the housing. A first motor is supported by the housing and configured to selectively apply first rotary actuation motions to a first drive shaft that is operably supported by the housing and operably interfaces with a first shaft actuator. A second motor is supported by the shaft rotator assembly such that the second motor is rotatable about the longitudinal axis and is configured to apply second rotary actuation motions to a second shaft actuator.

No. of Pages : 56 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005080 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SURGICAL INSTRUMENTS WITH PROGRESSIVE JAW CLOSURE ARRANGEMENTS

(51) International classification	:A61B0017072000, A61B0017290000, A61B0017068000, A61B0034300000, A61B0090000000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, USA, 00969 U.S.A.
(31) Priority Document No	:16/105094	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)HARRIS, Jason L.
(33) Name of priority country	:U.S.A.	2)SHELTON, IV, Frederick E.
(86) International Application No	:PCT/IB2019/056906	3)BAKOS, Gregory J.
Filing Date	:14/08/2019	4)BAXTER, III, Chester O.
(87) International Publication No	:WO 2020/039313	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A surgical instrument that includes a first jaw and a second jaw that are movable between a closed position and an open position. An axially movable closure member is supported relative to the jaws to apply closing and opening motions thereto. A closure actuator operably interfaces with the closure member and is movable from an unactuated position corresponding to the open position in a closure direction during a closure procedure. A first control system is configured to apply an opening control motion to the closure actuator to return the closure actuator to the unactuated position upon completion of the closure procedure. A second control system is configured to apply a variable closure force to the closure member as the closure actuator is moved in the closure direction.

No. of Pages : 56 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005081 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SURGICAL STAPLER ANVILS WITH TISSUE STOP FEATURES CONFIGURED TO AVOID TISSUE PINCH

(51) International classification	:A61B0017000000, A61B0017068000, A61B0090000000, A61B0017072000, A61B0017128000	(71) Name of Applicant : 1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.
(31) Priority Document No	:16/105140	(72) Name of Inventor :
(32) Priority Date	:20/08/2018	1)HARRIS, Jason L.
(33) Name of priority country	:U.S.A.	2)SHELTON, IV, Frederick E.
(86) International Application No	:PCT/IB2019/056880	3)BAXTER, III, Chester O.
Filing Date	:13/08/2019	4)ARONHALT, Taylor W.
(87) International Publication No	:WO 2020/039310	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Anvils for surgical devices designed to cut and staple tissue. The anvils include tissue stop arrangements for positioning the tissue to be cut and stapled in the device so that the tissue is stapled prior to being cut. The anvils are moved between open and closed positions by a corresponding closure member. The tissue stops and/or closure members are configured to avoid adjacent tissue from being pinched between the closure member and tissue stops when the anvil is in a closed position.

No. of Pages : 74 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005108 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD OF GENERATING STERILE PROGENY

(51) International classification	:A01K0067027000, C12N0015113000, A01H0005000000, C12N0005073500, A01K0063000000	(71) Name of Applicant : 1)CENTER FOR AQUACULTURE TECHNOLOGIES, INC. Address of Applicant :8395 Camino Santa Fe, Suite E. San Diego, CA 92121-2635 U.S.A.
(31) Priority Document No	:62/701278	(72) Name of Inventor :
(32) Priority Date	:20/07/2018	1)LAUTH, Xavier Christophe
(33) Name of priority country	:U.S.A.	2)BUCHANAN, John Terrell
(86) International Application No	:PCT/US2019/042543	
Filing Date	:19/07/2019	
(87) International Publication No	:WO 2020/018877	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure provides a method of generating a sterile fish, crustacean, or mollusk. The method comprises breeding (i) a fertile hemizygous mutated female fish, crustacean, or mollusk with (ii) a fertile hemizygous mutated male fish, crustacean, or mollusk, selecting a female progenitor that is homozygous by genotypic selection, and breeding the homozygous female progenitor to produce the sterile fish, crustacean, or mollusk. The mutation disrupts the maternal-effect of a primordial germ cell (PGC) development gene and does not impair the viability, sex determination, fertility, or a combination thereof, of a homozygous progenitor. The disclosure also provides methods of making broodstock freshwater and seawater organisms for use in producing sterilized freshwater and seawater organisms, as well as the broodstock itself.

No. of Pages : 147 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005109 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHODS FOR X-RAY IMAGING AND A CONTRAST AGENT

(51) International classification	:A61B0006000000, A61B0006030000, A61B0006060000, A61B0034200000, A61B0006020000	(71) Name of Applicant : 1)XENSELAB LLC Address of Applicant :15 Hubble Suite 200F Irvine, California 92618 U.S.A.
(31) Priority Document No	:62/712058	(72) Name of Inventor :
(32) Priority Date	:30/07/2018	1)ZHAO, Ying
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/044226	
Filing Date	:30/07/2019	
(87) International Publication No	:WO 2020/028422	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An x-ray apparatus and method can improve x-ray imaging in a variety of ways. For example, the improve x-ray apparatus can reduce scatter from x-ray images acquired by two-dimensional detectors. An improved 2D x-ray apparatus can provide 3D imaging for medical and/or industrial applications. An improved 2D x-ray apparatus and method can produce separate material imaging, and composition analysis for characterization and correlation of image, densitometry, and composition information of individual component or individual material within a single subject. Non-rotational 3D microscopy, combining 2D or 3D full field x-ray imaging and high resolution 2D or 3D x-ray microscopy or spectral absorptiometry and spectroscopy can achieve a higher resolution and wider field of view in x-ray imaging and quantitative analysis in 3D and real time. The x-ray apparatus can improve tracking and/or surgical guidance in time and/or space.

No. of Pages : 163 No. of Claims : 151

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005125 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AERIAL ELECTROSTATIC SYSTEM FOR WEATHER MODIFICATION

(51) International classification	:A01G0015000000, F24F0006140000, A61K0047200000, B05B0007080000, A61M0015000000	(71) Name of Applicant : 1)THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE Address of Applicant :1400 Independence Ave. S.W. Washington, District of Columbia 20250 U.S.A.
(31) Priority Document No	:62/695259	2)ACTIVE INFLUENCE & SCIENTIFIC MANAGEMENT
(32) Priority Date	:09/07/2018	(72) Name of Inventor :
(33) Name of priority country	:U.S.A.	1)MARTIN, Daniel E.
(86) International Application No	:PCT/US2019/040763	2)RUIZ-COLUMBIE, Arquimedes
Filing Date	:08/07/2019	
(87) International Publication No	:WO 2020/014099	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The system uses a specifically modified spray assembly to spray electrically charged fluid below selected clouds so that an updraft carries the charged fluid into the cloud and induces precipitation. The size, charge, and design of the sprayers are specifically designed to elicit precipitation.

No. of Pages : 11 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005129 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYNERGISTIC PHARMACEUTICAL COMPOSITION COMPRISING ACECLOFENAC AND BETAMETHASONE FOR THE TREATMENT OF PAIN IN LOCALISED FORMS OF RHEUMATIC ILLNESSES

(51) International classification :A61K0031216000,
A61K0031573000,
A61K0009000000,
A61K0031510000,
A61K0031441500

(31) Priority Document No :MX/a/2018/009812

(32) Priority Date :13/08/2018

(33) Name of priority country :Mexico

(86) International Application No :PCT/MX2019/000091
Filing Date :13/08/2019

(87) International Publication No :WO 2020/036478

(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)AM%ZCUA AM%ZCUA, Federico
Address of Applicant :Av. del Porvenir 2728 Col. El Rosario
Guadalajara, Jalisco, 44898 Mexico
2)AM%ZCUA AM%ZCUA, Carlos

(72)Name of Inventor :
1)GARC • A ARMENTA, Patricia del Carmen

(57) Abstract :

The present invention relates to a pharmaceutical composition comprising the synergistic combination of a non-steroidal anti-inflammatory analgesic, such as aceclofenac or the pharmaceutically acceptable salts thereof, and a steroidal anti-inflammatory agent, such as the active ingredient betamethasone or the pharmaceutically acceptable phosphate or dipropionate salts thereof, which are formulated as a single dosage unit for topical, intramuscular or intravenous administration, indicated for the treatment of pain in localised forms of rheumatic illnesses.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005132 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIGHT-EMITTING DEVICE, METHOD FOR MANUFACTURING SAME, AND DISPLAY DEVICE COMPRISING SAME

(51) International classification	:H01L0033400000, H01L0051520000, H01L0033620000, H01L0033380000, H01L0051500000	(71) Name of Applicant : 1)SAMSUNG DISPLAY CO., LTD. Address of Applicant :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do 17113 Republic of Korea
(31) Priority Document No	:10-2018-0079548	(72) Name of Inventor :
(32) Priority Date	:09/07/2018	1)MIN, Jung Hong
(33) Name of priority country	:Republic of Korea	2)KIM, Dae Hyun
(86) International Application No	:PCT/KR2018/015847	3)IM, Hyun Deok
Filing Date	:13/12/2018	4)CHO, Hyun Min
(87) International Publication No	:WO 2020/013403	5)KANG, Jong Hyuk
(61) Patent of Addition to Application Number	:NA	6)KIM, Dong Uk
Filing Date	:NA	7)LIM, Bek Hyun
(62) Divisional to Application Number	:NA	8)LIM, Jae Ik
Filing Date	:NA	

(57) Abstract :

A light-emitting device may comprise: a substrate; a first electrode provided on the substrate; a second electrode provided on the same plane as the first electrode and spaced a predetermined distance apart from the first electrode; an insulation pattern provided between the first electrode and the second electrode and overlapping a portion of the first electrode and a portion of the second electrode; at least one light-emitting element provided on the insulation pattern and having a first end and a second end in the longitudinal direction; a first partition provided on the first electrode and a second partition provided on the second electrode; a first reflective electrode provided on the first partition and electrically connected to the first electrode; and a second reflective electrode provided on the second partition and electrically connected to the second electrode.

No. of Pages : 92 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005133 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIGHT EMITTING DEVICE AND DISPLAY DEVICE HAVING SAME

(51) International classification	:H01L0033620000, H01L0027320000, H01L0025075000, G09G0003322500, H01L0025160000	(71) Name of Applicant : 1)SAMSUNG DISPLAY CO., LTD. Address of Applicant :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do 17113 Republic of Korea
(31) Priority Document No	:10-2018-0079540	(72) Name of Inventor :
(32) Priority Date	:09/07/2018	1)LIM, Jae Ik
(33) Name of priority country	:Republic of Korea	2)YANG, Eun A
(86) International Application No	:PCT/KR2018/011346	3)CHOI, Hae Yun
Filing Date	:27/09/2018	
(87) International Publication No	:WO 2020/013386	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A light emitting device comprises: a substrate including a plurality of unit light emitting areas; at least one first light emitting device provided on the substrate and having a first end portion and a second end portion in a first direction; at least one second light emitting device having a first end portion and a second end portion in a second direction which intersects with the first direction; a first electrode connected to any one of the first and second end portions of each of the first and second light emitting devices and a second electrode connected to the other of the first and second end portions; a first alignment line extending along the second direction on the substrate and connected to the first electrode; and a second alignment line spaced apart from the first alignment line by a certain distance and connected to the second electrode.

No. of Pages : 58 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005134 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RECOMBINANT NUCLEIC ACID CONSTRUCT

(51) International classification	:C12N0015113000, A61K0045060000, A61K0038170000, C12N0015810000, A61K0048000000	(71) Name of Applicant : 1)PANTHERNA THERAPEUTICS GMBH Address of Applicant :Neuendorfstrasse 20b 16761 Hennigsdorf Germany
(31) Priority Document No	:18188489.1	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)GIESE, Klaus
(33) Name of priority country	:EPO	2)KEIL, Oliver
(86) International Application No	:PCT/EP2019/071173	3)KAUFMANN, Jrg
Filing Date	:07/08/2019	
(87) International Publication No	:WO 2020/030672	
(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 related to a recombinant nucleic acid construct comprising in 5'→3' direction - a 5' UTR, - a coding region coding for an effector molecule, and - a 3' UTR, wherein the 5' UTR is selected from the group comprising a 5' UTR of a gene or a derivative thereof having a nucleotide identity of at least 85 %, wherein the gene is selected from the group consisting of MCP-1, RPL12s.cž Ang-2, HSP70, H3.3., Galectin-9, GADD34, EDN1, HSP70m5, E-selectin, ICAM-1, IL-6 and vWF.

No. of Pages : 90 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005144 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ELECTRONIC DEVICE, EXTERNAL ELECTRONIC DEVICE, AND METHOD OF MANAGING EMBEDDED SUBSCRIBER IDENTITY MODULES OF EXTERNAL ELECTRONIC DEVICE

(51) International classification	:H04L0029080000, H04L0029060000, H04W0012060000, H04W0004500000, H04W0008180000	(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
(31) Priority Document No	:10-2018-0092456	(72) Name of Inventor :
(32) Priority Date	:08/08/2018	1)BAE, Jeongtak
(33) Name of priority country	:Republic of Korea	2)BAN, Hyongjin
(86) International Application No	:PCT/KR2019/009266	3)KANG, Jeongdon
Filing Date	:25/07/2019	4)JUNG, Jieun
(87) International Publication No	:WO 2020/032445	5)LEE, Sangsoo
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device is provided. The electronic device a processor configured to, receive a signal for requesting activation of a communication service for the external electronic device, from the external electronic device using the second communication module; transmit device information of the electronic device to the first external server using the first communication module; receive information for activation of the communication service from the first external server; access the second external server on the basis of an address of the second external server which is included in the information for activation of the communication service; and perform activation of the communication service for the external electronic device using data transmitted from the second external server.

No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005150 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CENTRIFUGAL REVERSE OSMOSIS SYSTEM

(51) International classification	:C02F0001440000, B01D0061080000, C02F0103080000, C02F0001380000, B01D0063160000	(71) Name of Applicant : 1)TIKALSKY, John, M. Address of Applicant :38636 Bright Oak Lane Oakhurst, CA 93644 U.S.A.
(31) Priority Document No	:62/697048	(72) Name of Inventor :
(32) Priority Date	:12/07/2018	1)TIKALSKY, John, M.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/041661	
Filing Date	:12/07/2019	
(87) International Publication No	:WO 2020/014645	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A reverse osmosis system includes a wheel formed of a hollow central hub, radial tubes fluidly connected to the central hub, semi-permeable membranes provided in each radial tube, a permeate outlet tube, and a concentrate outlet tube; a permeate collection tank; a concentrate collection tank; and a drive mechanism. The drive mechanism rotationally drives the wheel while the source liquid is supplied to the central hub of the wheel, the rotation causing the source liquid to enter the radial tubes in radially outward directions and cause pressure increase on the source liquid in the radial tubes. The pressure increase forces the source liquid through the semi-permeable membranes to separate into permeate and concentrate, the permeate being directed to the permeate collection tank through the permeate outlet tube and the concentrate being directed to the concentrate collection tank through the concentrate outlet tube.

No. of Pages : 12 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005162 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SWITCHING PROCESSING METHOD, TERMINAL DEVICE AND NETWORK DEVICE

(51) International classification	:H04W0036000000, H04W0076180000, H04L0029080000, H04W0076190000, H04W0036180000	(71) Name of Applicant : 1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. Address of Applicant :No.18 Haibin Road,Wusha,Chang TM an, Dongguan, Guangdong 523860 China
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)YOU, Xin
(33) Name of priority country	:NA	2)LU, Qianxi
(86) International Application No	:PCT/CN2018/106203	3)YANG, Ning
Filing Date	:18/09/2018	
(87) International Publication No	:WO 2020/056587	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a switching processing method, a terminal device, a network device, a chip, a computer-readable storage medium, a computer program product and a computer program, comprising: initiating a connection to a first target network device, and maintaining a connection with a source network device; when the connection with the first target network device fails, returning to the connection with the source network device, and initiating a connection to a second target network device.

No. of Pages : 55 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005163 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SIGNAL TRANSMISSION METHOD AND APPARATUS, NETWORK DEVICE, AND TERMINAL DEVICE

(51) International classification	:H04L0005000000, H04W0072040000, H04W0076270000, H04W0048120000, H04W0072120000	(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
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)XU, Weijie
(33) Name of priority country	:NA	2)LIN, Yanan
(86) International Application No	:PCT/CN2018/097003	3)ZHANG, Zhi
Filing Date	:25/07/2018	4)CHEN, Wenhong
(87) International Publication No	:WO 2020/019188	5)SHI, Zhihua
(61) Patent of Addition to Application Number	:NA	6)SHEN, Jia
Filing Date	:NA	7)ZHAO, Zhenshan
(62) Divisional to Application Number	:NA	8)SHI, Cong
Filing Date	:NA	9)YANG, Ning
		10)WANG, Shukun
		11)YOU, Xin

(57) Abstract :

Embodiments of the present application provides a signal transmission method and apparatus, a network device, and a terminal device, the method comprising: the network device transmits a first indication signal to the terminal device, the first indication signal being used for determining, by the terminal device, whether to perform downlink control channel monitoring in a search space associated with the first indication signal.

No. of Pages : 36 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005171 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A REFRESH SCHEME IN A MEMORY CONTROLLER

(51) International classification	:G06F0013160000, G11C0011406000, G06F0013180000, G11C0011407600, G06F0003060000	(71) Name of Applicant : 1)ADVANCED MICRO DEVICES, INC. Address of Applicant :AMD Law Department 2485 Augustine Drive Santa Clara, California 95054 U.S.A.
(31) Priority Document No	:201810775044.X	(72) Name of Inventor :
(32) Priority Date	:16/07/2018	1)ZHAO, Liang
(33) Name of priority country	:China	2)YAO, YuBin
(86) International Application No	:PCT/US2019/038541	
Filing Date	:21/06/2019	
(87) International Publication No	:WO 2020/018234	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one form, a memory controller includes a command queue, an arbiter, a refresh logic circuit, and a final arbiter. The command queue receives and stores memory access requests for a memory. The arbiter selectively picks accesses from the command queue according to a first type of accesses and a second type of accesses. The first type of accesses and the second type of accesses correspond to different page statuses of corresponding memory accesses in the memory. The refresh logic circuit generates a refresh command to a bank of the memory and provides a priority indicator with the refresh command whose value is set according to a number of pending refreshes. The final arbiter selectively orders the refresh command with respect to memory access requests of the first type accesses and the second type accesses based on the priority indicator.

No. of Pages : 14 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005172 A

(19) INDIA

(22) Date of filing of Application :06/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR VAPORIZATION AND VAPOR DISTRIBUTION

(51) International classification	:C23C0014220000, C30B0023000000, H01L0031180000, C23C0016520000, C23C0016440000	(71) Name of Applicant : 1)FIRST SOLAR, INC. Address of Applicant :350 West Washington Street 6th Floor Tempe, AZ 85281 U.S.A.
(31) Priority Document No	:62/717265	(72) Name of Inventor :
(32) Priority Date	:10/08/2018	1)BARDEN, John
(33) Name of priority country	:U.S.A.	2)POWELL, Rick
(86) International Application No	:PCT/US2019/045854	3)ROGGELIN, Aaron
Filing Date	:09/08/2019	4)VORA, Nirav
(87) International Publication No	:WO 2020/033799	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Distributor assemblies for vapor transport deposition systems, and methods of conducting vapor transport deposition, are described.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117005195 A

(19) INDIA

(22) Date of filing of Application :07/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : INFORMATION TRANSMISSION METHOD AND DEVICE, AND COMPUTER STORAGE MEDIUM

(51) International classification	:H04W0008240000, H04W0072040000, H04W0008220000, H04W0076270000, H04W0072120000	(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
(31) Priority Document No	:201810798927.2	(72) Name of Inventor :
(32) Priority Date	:19/07/2018	1)LU, Qianxi
(33) Name of priority country	:China	2)YANG, Ning
(86) International Application No	:PCT/CN2019/096677	3)LIN, Hwei-Ming
Filing Date	:19/07/2019	
(87) International Publication No	:WO 2020/015720	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are an information transmission method and device, and a computer storage medium. The method may comprise: sending a first message to a network device, wherein the first message comprises communication capacity information of the terminal with regard to a PC5 interface.

No. of Pages : 43 No. of Claims : 15

(54) Title of the invention : COLD FORM LAMINATE FOR BASE AND/OR LID AND A BLISTER PACK FORMED THEREFROM

(51) International classification :H01M0010440000,
G11B0017049000,
G03G0015080000,
A24D0003060000,
B65D0006220000

(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)Scitech Centre
Address of Applicant :7 Prabhat Nagar, Near Unichem laboratory, Patel Estate Road, Jogeshwari West, Mumbai-400102, Maharashtra, India. Maharashtra India
2)ACG Pharmapack Private Limited

(72)Name of Inventor :
1)SINGH, Karan
2)PASBRIG, Erwin

(57) Abstract :

The present disclosure relates to a cold form laminate for producing base parts of blister packs for products which are sensitive to moisture, oxygen or both. The cold form laminate has the layer sequence: polymer layer/oriented polymer film/Aluminum foil/sealing layer. The sealing layer is a heat seal lacquer layer having a thickness of = 0.5 μm, or a polymeric film having a thickness of = 4 μm. The reduced-thickness sealing layer, along with other layers, provides a laminate structure with excellent oxygen and moisture barrier properties as well as good physical characteristics. The present disclosure also provides a blister pack which includes a blister base part made from the cold form laminate and a lidding foil. The lidding foil includes an aluminum foil and a = 0.5 μm thick heat seal lacquer layer coated on a sealing side of the aluminum foil.

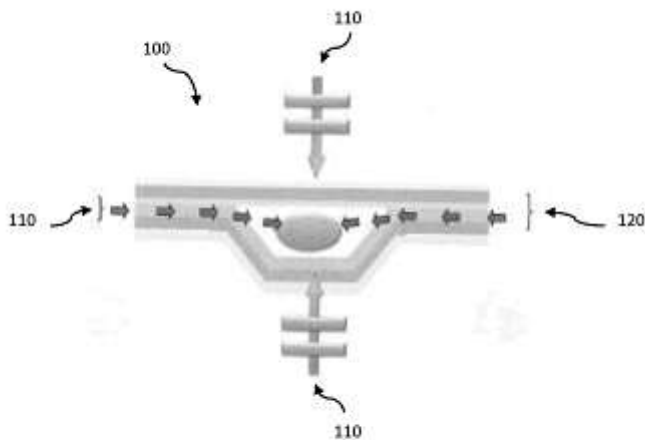


Figure 1

No. of Pages : 29 No. of Claims : 18

(54) Title of the invention : A METHOD, OBJECT RECOGNITION SYSTEM AND APPARATUS FOR VISUALLY IMPERCEPTIVE SITUATIONS

(51) International classification	:G06K0009000000, G06K0009620000, G06K0009460000, A61H0003060000, H01S0003230000	(71) Name of Applicant : 1)CHANGDEV PANDURANG HAJARE Address of Applicant :4/9, ANIL AND ANANT ESTATE, NEAR D BAZAR, VILLAGE ROAD, BHANDUP (WEST), MUMBAI-400 078, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	2)ANUSHREE NARKAR
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)YASH CHANGDEV HAJARE
(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, object recognition system and apparatus for visually imperceptive situations is an invention related to an apparatus for identifying objects from the received visual signals and recognising objects. The apparatus is a device to aid in visually imperceptive situations, but not limited thereto. The visually imperceptive situations arise when, person is visually impaired or low vision, or light is insufficient to recognise the objects with normal vision, or situation is of linguistic illiteracy. Apparatus work as the smart eye. The smart eye is an optical instrument which receives the visual signals, and transmits these visual signals to processor. Processor converts it to various output signals. Further, the processor also enabled with detecting and recognising text characters of various languages. Furthermore, apparatus is also enabled with receiving and processing the input signals from users. Fig 01



No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921033760 A

(19) INDIA

(22) Date of filing of Application :22/08/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : IMPROVED WATER SOLUBLE FILM AND METHOD OF MAKING THE SAME.

(51) International classification	:C11D0017040000, A61K0009000000, G01N0033543000, B65D0065460000, C11D0003220000	(71) Name of Applicant : 1)ARROW GREENTECH LTD. Address of Applicant :PLOT NO. 5310 SEVEN WATER TANK ROAD, NEAR V- TRANS, G.I.D.C. ANKLESHWAR GUJRAT INDIA 393 002 Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHILPAN PRAVINCHANDRA PATEL
(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 an improved water soluble film incorporated with graphene, that can achieve excellent mechanical properties (such as higher tensile strength) and show better water solubility, when compared to already available water soluble film or non-water soluble film existing in the market and method of making an improved water soluble film thereof.

No. of Pages : 19 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921036369 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR INDUSTRIAL DATA MINING

(51) International classification	:G06Q0010060000, G05B0023020000, G06F0016245800, G06F0016903800, H04W0024020000	(71) Name of Applicant : 1)Tata Consultancy Services Limited Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SELVANATHAN, Balaji
(33) Name of priority country	:NA	2)NISTALA, Sri Harsha
(86) International Application No	:NA	3)RUNKANA, Venkataramana
Filing 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 :

Industrial data mining is performed on data collected/gathered from industrial processes/equipment for monitoring performance of the processes/equipment, and in turn to make necessary changes so as to obtain an intended result. However, the existing data mining systems fail to consider relation between variables and certain Key Performance Indicators (KPI), and strength of the relation. Disclosed herein is a method and system for data mining in industrial processes or equipment in which relation between the variables and the KPIs are determined, and also the strength of relation is determined. Based on the determined relation, an order of importance of the variables with respect to each KPI is determined. This information can be used to alter/change appropriate parameters to yield intended results.



No. of Pages : 39 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038383 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR DIAGNOSING ANOMALY IN A MANUFACTURING PLANT

(51) International classification :G05B0023020000,
G06Q0010060000,
G06N0020000000,
G06F0016245800,
G06K0019060000

(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)Tata Consultancy Services Limited
Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India

(72)**Name of Inventor :**
1)BASAK, Arghya
2)RATHORE, Pradeep
3)NISTALA, Sri Harsha
4)RUNKANA, Venkatramana

(57) Abstract :

Industrial plants involve a large amount of equipment, which generate a large amount of data. By analyzing this data, the operator can diagnose anomaly in the plant. Analyzing this data is difficult and time taking task. A method and system for diagnosing anomaly in an industrial system in a time efficient and convenient manner has been provided. The system is configured to diagnose the anomaly by finding out one or more sensors responsible for the anomaly. The present disclosure treats the anomaly detection model as a score generating function. Whenever for a particular instance the score given by the anomaly detection model crosses a pre-determined threshold, anomaly is reported and the diagnosis algorithm is triggered. The system is configured to diagnose the anomaly predicted in case of time series as well as non-time series data.



No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038825 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN APPARATUS FOR GENERATING ROTATIONAL MECHANICAL ENERGY THROUGH COMBINED CYCLE OF ELECTRICAL ENERGY

(51) International classification	:H02K0007180000, F01K0023100000, G05B0013020000, G05B0019416000, H01L0031042000	(71) Name of Applicant : 1)NARENDRA PRABHAKAR BONDE Address of Applicant :A4/01, NEW PALM BEACH CHS, SECTOR 4, NERUL, NAVI MUMBAI - 400706, MAHARASHTRA Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NARENDRA PRABHAKAR BONDE
(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 for generating rotational mechanical energy through combined cycle of electrical energy (100) is disclosed. Said apparatus (100) comprises an intermediary shaft (4), a driver motor (3), a plurality of driven motors (7 and 8), a first power generating unit (5), an energy source (2), an automated regulating system (6), and a plurality of power transmission units. Said intermediary shaft (4), said driver motor (3), said plurality of driven motors (7 and 8), said first power generating unit (5), said automated regulating system (6), and said plurality of power transmission units are configured to mutually establish a common and uniform motional relation between them. The method of operation of the apparatus (100) is also disclosed. The applications of the disclosed apparatus (100) include, but are not limited to, Automobile Industry, Aviation Industry, Seawater desalination plants; Grid free residential and street lighting; and Emergency and backup lightings systems. The Figure to be included is Figure 2



No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038831 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SOLAR LED LIGHT FOR RURAL AREA

(51) International classification	:F21S0009030000, F21V0023040000, F21S0008080000, H05B0037020000, F21V0033000000	(71) Name of Applicant : 1)LUZION ELECTRONICS LLP Address of Applicant :5th Floor sudarshan complex dutron house lane mithakhali underbridge Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)LUZION ELECTRONICS LLP
(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 utility model uncovers a sort of multi-useful country Landscape Lightings, including lampshade, LED light gathering, LED show, climate checking gadget, enlightenment inductor, raindrop inductor, battery and solar powered panel, lamppost is furnished with LED show, climate observing gadget is mounted on the highest point of lampshade, the highest point of climate checking gadget is outfitted with multi-practical inductor, brightening inductor and raindrop inductor, information accumulation controller is prepared in climate observing gadget, the information terminal of information gathering controller individually with multi-useful inductor, enlightenment inductor, raindrop inductor is associated, lampshade top is furnished with battery, the four sides of climate checking gadget is separately associated with solar oriented panel, the utility model gives a sort of multi-useful provincial Landscape Lighting, it can constant observing climate data by climate observing gadget, control blue drove lights while sprinkling, it ascends To proposing impact, the capacity of Landscape Lighting is expanded, yellow LED light switch is controlled by regular light, gives electric energy, energy sparing and labor by solar panel.



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

(54) Title of the invention : PUNCTURE CONTINUING TUBE (PCT) AS TYRE AIRBAGS.

(51) International classification	:B29D0030060000, B29C0073160000, B60C0005040000, B60C0023000000, B60C0017000000	(71) Name of Applicant : 1)GANESH NARAYAN MANTE Address of Applicant :SAFALYA BUILDING, PLOT NO.10, SR. NO.15/6B, SNEHANKIT COLONY, KARVENAGAR, PUNE-411052, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GANESH NARAYAN MANTE
(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 :

Tyre of vehicles puncture at any time at everywhere to continue the tyre motion even its punctured and avoiding accident and complete safety of vehicles and driver the invention puncture continuing inner tube as tyre airbag is must. Puncture continuing tube system as airbags is invention used to tyre safety and continuing the tyre motion even it is punctured in emergency. This invention is used to tube and tyre manufacturing industries in which mostly tubeless tyre is used for vehicle has two problems one it is puncture at any moment and secondly tubeless tyre burst/blast during run time. These are the two technical problem of the tubeless tyres solved by puncture continuing tube system is used inside the tyre.PCT is having many equal shape and size of airbags inside the inner tube connected to one circular single pipe and each airbags having the a pressured controlling valves fixed to pipe and airbags and main inner tube valves.These valves perform inflation and deflation and locking of air bags isolate it from other airbags. The adjacent airbags provide cushion to punctured airbags The mechanical structure, design of inner tube maintain cool temperature of air inside the tube which avoids blast of tyre These two technical problems are solved by simply inserting PCT tube in tubeless tyre for safety and puncture continuing .

No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038878 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATIC EVENT INTEGRATED SYSTEM BASED ON USER PROFILE

(51) International classification	:G06Q0050000000, G06Q0030020000, G06Q0010100000, H04L0029080000, G06F0009451000	(71) Name of Applicant : 1)SAMIR AJANI Address of Applicant :JHULELEL INSTITUTE OF TECHNOLOGY, KH.NO. 68&72, VILLAGE LONARA, OFF. KORADI ROAD, NAGPUR-441111, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	2)NISHANT BISEN
(32) Priority Date	:NA	3)SUMET SURAWDHANIWAR
(33) Name of priority country	:NA	4)PRASAD BANEERJEE
(86) International Application No	:NA	5)KHUSHBOO TEJWANI
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)SAMIR AJANI
(61) Patent of Addition to Application Number	:NA	2)NISHANT BISEN
Filing Date	:NA	3)SUMET SURAWDHANIWAR
(62) Divisional to Application Number	:NA	4)PRASAD BANEERJEE
Filing Date	:NA	5)KHUSHBOO TEJWANI

(57) Abstract :

Event Integrated System is a platform where students can post events and workshops of their colleges as like they post news feed in other social media platforms. With the help of this system, students of different colleges will be aware of different college activities that are happening in their locality. All the hectic work related to promotion of particular events is performed online. Many a times, we see that there are clashes of events of different colleges on the same date. The technology used to build this system is Node.js and Angular js and the database used is MongoDB.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038912 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SMART WALL PANEL

(51) International classification	:E04C0002296000, E04B0001800000, E04B0001760000, B31F0001280000, B32B0005180000	(71) Name of Applicant : 1)SMART INSULATION FINISHING SYSTEMS LLC Address of Applicant :UMM AL QUWAIN PO BOX 3350 UNITED ARAB EMIRATES U.A.E.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Bejay Jayan
(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 various embodiments of the present invention provide a smart wall panel for providing thermal insulation to a building. The smart wall panel comprises a pair of facer board and an insulation layer. The pair of facer board are a cementitious material comprising an outer facer board and an inner facer board. The insulation layer is sandwiched between the outer facer board and the inner facer board. The outer facer board faces a solar incidence and the inner facer board faces a building wall. FIG. 1



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038934 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : MULTIFUNCTIONAL MATERIAL HANDLING DEVICE

(51) International classification	:B25J0017020000, G01S0007481000, G05B0019409000, B62B0001000000, A61F0005010000	(71) Name of Applicant : 1)G.H. Raison College of Engineering Address of Applicant :CRPF Gate No. 3,Digdoh Hills, Hingna Road, Nagpur Maharashtra-440016 Maharashtra India 2)G.H.R. Labs and Research Centre
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Aditya Dipendra Pannase
(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 multifunctional material handling device. The object of the proposed device is to carry heavy load over the head and load at back side of the body by maintaining the good posture. Also overall load is distributed on to the shoulder and at the middle portion of body with the help of belt attached with the device. Same device is also used as a trolley to lift heavy load on stairs just by clamping tri wheel with the device due to its multiple options to perform different task this innovation named as multifunctional material handling device. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the main structure and Figure 2 of sheet 2 showing attachment structure.



No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921038953 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : STORAGE STABLE AQUEOUS PARENTERAL SOLUTIONS COMPRISING DICLOFENAC

(51) International classification	:H04N0019109000, G02B0013220000, H04N0005782000, G11B0007006000, G11B0007131000	(71) Name of Applicant : 1)CADILA HEALTHCARE LIMITED Address of Applicant :Zydus Corporate Park, Scheme No. 63, Survey No. 536, Khoraj (Gandhinagar), Nr. Vaishnodevi Circle, Sarkhej Gandhinagar Highway, Ahmedabad 382481, Gujarat, India Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MUTHAIYYAN, Kannan Essakimuthu
(33) Name of priority country	:NA	2)SINGH, Debjani Manoj
(86) International Application No	:NA	3)KHATRI, Nirav Ishwarlal
Filing Date	:NA	4)KULKARNI, Sushrut Krishnaji
(87) International Publication No	: NA	5)GEORGE, Alex Kochukunju
(61) Patent of Addition to Application	:NA	6)PATIL, Sushilkumar Dhanaji
Number	:NA	7)KOTHARI, Jay Shantilal
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT STORAGE STABLE AQUEOUS PARENTERAL SOLUTIONS COMPRISING DICLOFENAC • The present invention provides parenteral solutions comprising diclofenac, polyvinylpyrrolidone, one or more pH adjusting agents and water, wherein the solution has a pH of between about 7 and about 10.

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

(54) Title of the invention : BRIQUETTES OF DRI FINES AND A PROCESS FOR PRODUCING SUCH BRIQUETTES FOR EFFECTIVE UTILIZATION IN STEEL MAKING.

(51) International classification	:C21B0013000000, C22B0001240000, C21C0005520000, C22B0001244000, C22B0001243000	(71) Name of Applicant : 1)JSW STEEL LIMITED Address of Applicant :JSW CENTRE, BANDRA KURLA COMPLEX, BANDRA (EAST), MUMBAI, MAHARASHTRA, INDIA. PIN-400051 Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BARISSETTY, Sivalingaraju
(33) Name of priority country	:NA	2)SREERAM, Ramakrishna
(86) International Application No	:NA	3)KALSHETTY, Sharanappa Sidramappa
Filing Date	:NA	4)LOCHAN, Pankaj
(87) International Publication No	: NA	5)CHANDRASHEKARAI AH, Vishwanath Suryanarayan
(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 briquettes of direct reducing iron (DRI) fines and a process for agglomeration of DRI fines into such briquettes for effective utilization in steel making. Process of the invention provide for briquetting the DRI fines into a dense metallized briquette for use as a coolant in primary steel making in BOF. Molasses and hydrated lime (slaked lime) is used as binder and hardener respectively involving selective mixing and pressurizing in briquetting process followed by curing. Initial lab scale experiments in pilot scale briquetting machine followed by industrial scale processing confirmed briquette properties suitable for steel making. The cold compressive strength of the cured briquette was found more than 100 kg/cm². In order to retard the reoxidation of DRI briquettes, the pile height is maintained 1.5 to 2 m. The invention also ensure saving 4GCal/t of energy by making briquettes of DRI fines used in steel making as compared to usage in sinter making route. (Figure 2)

No. of Pages : 26 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039060 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESS FOR ENHANCING THE PROPERTIES OF NON DEGRADABLE POST-CONSUMER POLYETHYLENE AND PRODUCT THEREOF

(51) International classification	:C08J0011240000, C08L0023040000, C08J0011060000, C08K0005090000, B29B0017020000	(71) Name of Applicant : 1)Indian Oil Corporation Limited Address of Applicant :G-9, Ali Yavar Jung Road, Bandra (East), Mumbai-400 051, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KOTTIYATH, Vimal Kakkarakkal
(33) Name of priority country	:NA	2)GOEL, Vishal
(86) International Application No	:NA	3)SETHURAMALINGAM, Saranya
Filing Date	:NA	4)SHIVA, Naresh
(87) International Publication No	: NA	5)DHALIWAL, Jatinder Singh
(61) Patent of Addition to Application Number	:NA	6)LUTHRA, Priyanka
Filing Date	:NA	7)CHOPRA, Anju
(62) Divisional to Application Number	:NA	8)KAPUR, Gurpreet Singh
Filing Date	:NA	9)RAMAKUMAR, Sankara Sri Venkata

(57) Abstract :

The present invention relates to a process for recycling non degradable post-consumer polyethylene wherein the properties of the recycled polyethylene is enhanced in desirable manner for usage in multiple applications. The process involves three steps in continuous manner comprising shredding, cleaning and modification. The resultant recycled polyethylene can be used be in for making drip-tape, bottles for chemical storage, bitumen packaging etc.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039190 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN IMPROVED SWITCHING DEVICE

(51) International classification	:H01L0027240000, H01L0045000000, A61N0001368000, C09K0019340000, H04N0021845000	(71) Name of Applicant : 1)Panasonic Life Solutions India Private Limited Address of Applicant :3rd Floor, B wing I- Think Techno Campus Pokhran, Road No 2 Thane (West), Thane, Maharashtra 400607, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SONAWANE, Yogesh
(33) Name of priority country	:NA	2)KUMAR, Pankaj
(86) International Application No	:NA	3)KAUSLE, Kushlendra
Filing 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 switching device is disclosed. The switching device includes a housing member and a plurality of rockers adapted to be mounted on the housing member. Further, the switching device includes a plurality of supporting members adapted to support the plurality of rockers. Each of the plurality of supporting members includes a pair of extending portion adapted to be coupled to the at least one of the plurality of rockers. Further, each of the plurality of supporting members includes an intermediate portion disposed between the pair of extending portion and adapted to push a movable contact element of the switching device to operate the switching device. The intermediate portion pushes the movable contact element by moving the at least one the plurality of rockers connected to the pair of extended portions.



No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039191 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SWITCHING DEVICE WITH IMPROVED FIXING STRUCTURE

(51) International classification	:B60R0016027000, G02F0001017000, B60R0016020000, H04N0013363000, A61B0006030000	(71) Name of Applicant : 1)Panasonic Life Solutions India Private Limited Address of Applicant :3rd Floor, B wing I- Think Techno Campus Pokhran, Road No 2 Thane (West), Thane, Maharashtra 400607, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SONAWANE, Yogesh
(33) Name of priority country	:NA	2)KUMAR, Pankaj
(86) International Application No	:NA	3)KAUSLE, Kushlendra
Filing 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 switching device is disclosed. The switching device includes a housing member and a plurality of rockers adapted to be mounted on the housing member. Further, the switching device includes a plurality of switching pillars adapted to be pushed by the plurality of switches. The switching device also includes an electrical contact assembly having a plurality of connector units adapted to be in contact with the plurality of switches. Each of the plurality of connector units includes a connecting pillar adapted to pivotally support a moving contact element which is movable by each of the plurality of switching pillars. Further, each of the plurality of connector units includes a plurality of expansion connectors adapted to be connected to a plurality of load pillars and the moving contact element. Each of the plurality of expansion connectors includes a bent end adapted to be connected to the moving contact element.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039192 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN IMPROVED SWITCHING DEVICE

(51) International classification	:H01L0027240000, H01L0045000000, A61N0001368000, C09K0019340000, H04N0021845000	(71) Name of Applicant : 1)Panasonic Life Solutions India Private Limited Address of Applicant :3rd Floor, B wing I- Think Techno Campus Pokhran, Road No 2 Thane (West), Thane, Maharashtra 400607, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SONAWANE, Yogesh
(33) Name of priority country	:NA	2)KUMAR, Pankaj
(86) International Application No	:NA	3)KAUSLE, Kushlendra
Filing 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 improved switching device (100) is disclosed. The switching device includes a housing member (206) and a plurality of rockers (102) adapted to be mounted on the housing member (206). Further, the switching device (100) includes an electrical contact assembly (306) having a plurality of connector units (402) adapted to be in contact with the plurality of rockers (102). Each of the plurality of connector units (402) includes a connecting pillar (504) adapted to pivotally support a moving contact element (506). The connecting pillar (504) is adapted to be connected to electrical wires. Further, each of the plurality of connector units (402) includes a plurality of load pillars (502-1, 502-2) adapted to form intermittent contact with the connecting pillar (504) through the moving contact element (506).

No. of Pages : 24 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039241 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SUPPORT STRUCTURE FOR ROTATING AND TILTING A SOLAR ARRAY

(51) International classification	:E05D0015520000, H02S0020100000, B64G0001440000, H02K0009190000, F24S0025120000	(71) Name of Applicant : 1)MAHINDRA SUSTEN PRIVATE LIMITED Address of Applicant :5th Floor, Mahindra Towers, Dr. G. M. Bhosale Marg, P. K. Kurne Chowk, Worli, Mumbai, Maharashtra - 400018, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KRISHNAKUMAR LINGAPPAN
(33) Name of priority country	:NA	2)SUHAS SATISH SUTAR
(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 support structure for rotating and tilting a solar array. The structure comprising: a vertical post (V) for holding the solar array (510); a tilting mechanism (525) fixed to the vertical post (V), the tilting mechanism (525) is having at least one bracing connected with the solar array (510); a bolting flange for adjusting the height of the solar array (510); a sliding groove disposed on bolting flange for connecting one end of the bracing with the bolting flange (F); a rotation mechanism (515) disposed below the tilting mechanism (525), the rotation mechanism (515) is having at least one intermediate flange sandwiched between a rotating flange and a fixed flange, the rotation mechanism (515) allows rotation of the solar array (510).



No. of Pages : 27 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039258 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR DETECTING PERSONALLY IDENTIFIABLE INFORMATION

(51) International classification	:G06F0021620000, H04L0029060000, G06N0020000000, G06F0021600000, G06F0016220000	(71) Name of Applicant : 1)Tata Consultancy Services Limited Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KULKARNI, Aniket Dilip
(33) Name of priority country	:NA	2)PATWARDHAN, Nikhil
(86) International Application No	:NA	3)DANI, Jayant
Filing Date	:NA	4)ROY, Ashim
(87) International Publication No	: NA	5)DESIK, Anantha
(61) Patent of Addition to Application Number:	NA	6)PAUL, Spondita
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure generally relates to systems and methods for detecting personally identifiable information (PII). The present systems and methods solve the problem of detecting the PII and the PII column names in the customer database with enhanced accuracy, by developing a PII classification model trained with an enhanced and effective training dataset. An enhanced sub-metadata from the metadata having the plurality of the column names is obtained by using highest match distance values, the string comparator values, and the isPII indicator values. The enhanced sub-metadata comprising the column names that can be easily differentiated as PII columns or non-PII columns. Hence the training dataset and the testing dataset obtained from the enhanced sub-metadata improves the accuracy of the PII classification model. Preventive measures can be taken to protect such detected PII present under the PII columns by employing various data privacy and protection techniques.



No. of Pages : 46 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039273 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR ASSESSMENT AND NEGOTIATION OF COMPENSATION

(51) International classification	:H04W0036220000, G06F0017220000, G06F0017210000, C07D0403120000, C07D0413040000	(71) Name of Applicant : 1)RELIANCE JIO INFOCOMM LIMITED Address of Applicant :101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006, Gujrat, India Gujarat India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)HARJEET KHANDUJA
(33) Name of priority country	:NA	2)HITESH KHATRI
(86) International Application No	:NA	3)UMANG MATHUR
Filing Date	:NA	4)PARUL GARG
(87) International Publication No	: NA	5)RAHUL MUKHERJEE
(61) Patent of Addition to Application Number	:NA	6)KAUSHIK CHANIYARA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR ASSESSMENT AND NEGOTIATION OF COMPENSATION The present invention relates to a system and a method for assessing and negotiating compensation of human resource (candidate). Upon selection of a candidate(s), the method comprises of receiving compensation information of the candidate(s). The compensation assessment and negotiation system generate a salary proposal based on at least one of the compensation data, an assessment score of the candidate, a location, a minimum wage, a threshold salary and a recruitment policy. The compensation assessment and negotiation system also allow the candidate to negotiate the salary proposal by submitting a second salary proposal to the system. The compensation assessment and negotiation system thereafter generate a revised salary proposal in response to the second salary proposal. The compensation assessment and negotiation system rolls an offer to the candidate upon receiving a positive response on the salary proposal.



No. of Pages : 43 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039285 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : CONTROL COMMAND BASED ADAPTIVE SYSTEM AND METHOD FOR ESTIMATING MOTION PARAMETERS OF DIFFERENTIAL DRIVE VEHICLES

(51) International classification	:G05D0001020000, G01C0021160000, A61B0005020500, G06K0009200000, B60K0023040000	(71) Name of Applicant : 1)Tata Consultancy Services Limited Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)LUDHIYANI, Mohit
(33) Name of priority country	:NA	2)SADHU, Arup Kumar
(86) International Application No	:NA	3)BERA, Titas
Filing Date	:NA	4)DASGUPTA, Ranjan
(87) 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 :

Motion parameters estimation for localization of differential drive vehicles is an important part of robotics and autonomous navigation. Conventional methods require introceptive as well extroceptive sensors for localization. The present disclosure provides a control command based adaptive system and method for estimating motion parameters of differential drive vehicles. The method utilizes information from one or more time synchronized command signals and generate an experimental model for estimating one or more motion parameters of the differential drive vehicle by computing a mapping function. The experimental model is validated to determine change in the one or more motion parameters with change in one or more factors and adaptively updated to estimate updated value of the one or more motion parameters based on the validation. The system and method of present disclosure provide accurate results for localization with minimum use of extroceptive sensors. Further, reduced number of sensors leads to reduction in cost.



No. of Pages : 58 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039286 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR IDENTIFICATION AND ANALYSIS OF REGIME SHIFT

(51) International classification	:G06Q0010060000, G06N0007000000, G05B0023020000, G06N0020000000, G03F0007200000	(71) Name of Applicant : 1)Tata Consultancy Services Limited Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUMAR, Rajan
(33) Name of priority country	:NA	2)KUMAR, Vivek
(86) International Application No	:NA	3)PARIHAR, Manendra Singh
Filing Date	:NA	4)RUNKANA, Venkataramana
(87) 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 :

This disclosure relates generally to identification and analysis of regime shift. The identification and analysis of the regime shift includes regime shift identification (RSI), root cause analysis of the identified regime shift and a recommendation unit to rectify the identified regime shift. The disclosure proposes to monitor a system continuously to identify a regime shift at real-time as presence of regime shifts in any system decreases quality of process and products and makes the system less efficient. The regime shift is identified at real-time based on key performance indicators (KPIs), a set of relevant features and real time input data using machine learning techniques. Further the disclosure also proposes techniques for detecting atleast one root cause for the identified regime shift and also recommends a rectification action to rectify the identified regime shift based on optimization techniques.



No. of Pages : 29 No. of Claims : 15

(54) Title of the invention : A RUBBER DAMPED CAMSHAFT GEAR MECHANISM

(51) International classification	:A61M0039100000, B60B0007000000, F01L0001020000, G01D0005245000, B81C0001000000	(71) Name of Applicant : 1)Tata Motors Limited Address of Applicant :Bombay House, 24 Homi Mody Street, Hutatma Chowk, Mumbai - 400001, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Ratnesh
(33) Name of priority country	:NA	2)KAMARAJUGADDA, Chiranjeevi
(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 camshaft gear mechanism. In one embodiment, camshaft gear mechanism comprises a gear, a damper element, a hub, and a cover. In one example, the gear comprises a cut-out along the circumference of the gear, and a plurality of first boss located in the cut out. Further, the damper element is disposed in the cut-out, and the inner circumference of the damper element comprises a first semi-circular sections. The hub comprises a flange comprising a second semi-circular sections disposed along the circumference of the flange. The cover comprises a plurality of second boss located along the circumference of the cover, and during assembly the plurality of second boss and the plurality of first boss are coupled by fasteners. In the example, upon assembly the first semi-circular sections and the second semi-circular sections enclose around the plurality of first boss and the plurality of second boss.



No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039303 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROBIOTIC ORALLY DISINTEGRATING FILMS

(51) International classification	:A61K0009000000, A61K0035747000, A23L0033135000, A61K0009700000, A61K0035745000	(71) Name of Applicant : 1)JOSEPH, ASHISH Address of Applicant :H 202, KONARK INDRAYU PHASE I, NIBM ROAD, KONDHWA 411048, PUNE, MAHARASHTRA Maharashtra India
(31) Priority Document No	:NA	2)JOSEPH, NAZIA
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)JOSEPH, ASHISH
(86) International Application No	:NA	2)JOSEPH, NAZIA
Filing 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 probiotics orally disintegrating film compositions for treating oral and gastrointestinal ailments. The present invention further provides a process for the manufacturing of stable probiotics orally disintegrating films by controlling critical process parameters and key components.



No. of Pages : 21 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039316 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A REFRIGERANT SUCTION ASSEMBLY OF A COMPRESSOR OF A MOBILE REFRIGERATION SYSTEM

(51) International classification	:F04B0039100000, F04B0039000000, F02B0063040000, F04B0027100000, F01N0013000000	(71) Name of Applicant : 1)EMERSON CLIMATE TECHNOLOGIES (INDIA) PRIVATE LIMITED Address of Applicant :PLOT NO.23, RAJIV GANDHI INFOTECH PARK, PHASE II, HINJEWADI, PUNE - 411 057, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NALAVADE, Sumedh Tanaji
(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 refrigerant suction assembly (100) of a compressor (200) of a mobile refrigeration system comprising a head (10) mounted on a valve plate (50) of the compressor (200), a muffler (20) disposed between the head (10) and the valve plate (50), the muffler (20) configured to provide damping to flow of pulsations, a spacer (30) disposed between the muffler (20) and the head (10), the spacer (30) having a plurality of tabs (32a, 32b, 34a, 34b, 36a, 36b, 38, 39) to facilitate restraining relative movement of the muffler (20) with the head (10).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039347 A

(19) INDIA

(22) Date of filing of Application :28/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : TREATMENT FOR BLACK SIGATOKA

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)UPL CORPORATION LIMITED Address of Applicant :5th Floor, Newport Building, Louis Pasteur Street, Port Louis, Mauritius Mauritius 2)UPL LIMITED
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DAS, Kuntal
(33) Name of priority country	:NA	2)CHINCHILLA, Alvaro Pe±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 :

The present invention relates to methods of controlling fungal diseases in plants. More specifically, the present invention relates to treatment of fungal diseases in banana.

No. of Pages : 39 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039356 A

(19) INDIA

(22) Date of filing of Application :28/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A CRATE WITH AN IDENTIFICATION TAG

(51) International classification	:B65D0001240000, B65D0001400000, F28F0001020000, G06K0019073000, F25D0023060000	(71) Name of Applicant : 1)PAREKH, Nayan Sharadbhai Address of Applicant :Plot 77/78, Street Number 14, M.I.D.C. Andheri East, Mumbai 400093, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PAREKH, Nayan Sharadbhai
(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 the field of crates. The present disclosure envisages a crate (100) with an identification tag. The crate (100) is defined by two long side walls (101) and two width side walls (103) joined together with a base (105). The crate (100) comprises a handle (102), a plurality of projections (104), and an RFID jacket (106). The handle (102) is configured on each of the width side wall (103). The projections (104) are extending from the width side wall (103). The projections (104) are configured on outer portion of the width side wall (103) in proximity of the handle (102). The radio frequency identification (RFID) jacket (106) is defined by a plurality of arms (106A) extending therefrom. Each of the arms (106A) is configured to permanently engage with the projections (104) and snap fit therewith. The jacket (106) facilitates identity of the crate (100).



No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039392 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : CHITOSAN-BASED DRESSING FOR RAPID HEMOSTASIS

(51) International classification	:A61L0024000000, A61M0039060000, A61B0017128000, A61F0013020000, A61B0017132000	(71) Name of Applicant : 1)Agharkar Research Institute of Maharashtra Association for Cultivation of Science Address of Applicant :Gopal Ganesh Agharkar Road, Pune 411004, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Vandana Ghormade
(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 :

Disclosed herein is a haemostatic wound dressing is proposed, which is a construct in which silica nanoparticles (SiNPs) synthesized by sol-gel method are incorporated into a chitosan gauze for improving blood clotting efficiency of said hemostatic dressing. The disclosures further detail the process of preparing and using said dressing for effective hemostasis.



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

(54) Title of the invention : AUTOMATIC TOILET (URINE) WASHING SYSTEM

(51) International classification	:E03D0005100000, E03D0011020000, E03D0009000000, E03D0013000000, E03C0001050000	(71) Name of Applicant : 1)Indranil Mukharjee Address of Applicant :Navsahyadri Education Society TM s Group of Institutions,Pune Maharashtra India 2)Gupta Dipak Ashok
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Indranil Mukharjee
(33) Name of priority country	:NA	2)Gupta Dipak Ashok
(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 :

Most of the user does not use the urinal bowl valve in public toilet. In our invention by using simple push valve & pipe we will flush automatically & clean the toilet. Using of weights of a human being is the prime mechanism of our system, when someone wants to use any toilet he or she should stand in front of toilet bowl & due to his or her weight the standing floor goes down word along with spring up to a certain limit, Standing floor is attached with a spring & when a user stand on the floor sprig will get compress with the floor, but use of bricks both side of the floor will not compress more than a certain limit, down surface of the standing wall & the valve of the inside Floor touches each other, when someone stand upon the floor flush valve will push simultaneously & water will flow automatically to wash the bowl. By releasing the weight push valve will come to its previous state & the flow of water will stop automatically. It is a simple pipe connection to wash urinal bowl. It is easy to use for every user without any manual effort. Maintenance cost is also very low. No sensor or electrical connection will be use



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039439 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MASKING TEXT WITHIN IMAGES

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)Tata Consultancy Services Limited Address of Applicant :Nirmal Building, 9th Floor, Nariman Point, Mumbai - 400021, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)PATWARDHAN, Nikhil
(33) Name of priority country	:NA	2)REKE, Pranit
(86) International Application No	:NA	3)SHASTRI, Prachi
Filing Date	:NA	4)KULKARNI, Rupali
(87) International Publication No	: NA	5)KAPSE, Shraddha
(61) Patent of Addition to Application Number	:NA	6)JAGTAP, Ankit
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure relates generally to a system and method for masking text within images. Conventionally, image masking approaches have enabled masking but masking PII data which contains sensitive data is still a challenge. The present disclosure includes training and masking phase, wherein during training phase the PII label and values of the input image are captured and stored as co-ordinates in the database. During masking, the test image and the words comprised in the test image are optimized using an OCR technique. The label and value of each pairs are compared with the words comprised in the optimized test image. The comparison results in one or more matching labels and then a masking area is calculated for each matching label. The masking string is generated for each matching label based on the calculated masking area and the original text is masked with the generated string.



No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039465 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN APPARATUS FOR AUTOMATION ELECTRIC BILL GENERATION •

(51) International classification	:G01D0004000000, H04W0004800000, H04Q0009000000, G01R0011570000, A61N0001080000	(71) Name of Applicant : 1)RUTVI SHAH Address of Applicant :104, Krishna complex, opposite ayyapa ground , new sama, City Vadodara State Gujarat, Country INDIA Pin code 390024 Gujarat India 2)ASHWINI VISHWANATHAN
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RUTVI SHAH
(33) Name of priority country	:NA	2)ASHWINI VISHWANATHAN
(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 for automation electric bill generation comprises of electric components: power supply box 01; energy meter 02; analog to digital convertor 03; the smart automation device 04; processing unit 05; current sensor 06; radio frequency device 07; display unit 08; users™ equipment 09 in figure 1. The said apparatus connected with energy meter wherein converts digital data by means of analog to digital convertor and forwards to the smart automation device and calculates digital data as per processing method and generate periodic bill and forward to the radio frequency device wherein radio frequency device decoding the data and display on display units as well as notify to users payable amount and usage data; it can be in form of unit, daily, weekly, monthly or any form of generation of electric bill.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : INDIAN PUBLIC TOILET & TOILET WALL CLEANING SYSTEM

(51) International classification	:A47K0017020000, B01D0021240000, E03C0001020000, E03D0011160000, A01K0001010000	(71) Name of Applicant : 1)Indranil Mukharjee Address of Applicant :Navsahyadri Education Society™s Group of Institutions, Pune Maharashtra India 2)Gupta Dipak Ashok
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Indranil Mukharjee
(33) Name of priority country	:NA	2)Gupta Dipak Ashok
(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 :

Most of the places we saw a very dirty & unhygienic public toilet is used by many users. To clean Public toilet, floor & his wall we developed a technique where we can clean all four sides of the wall and floor every time for a new user. All the Pipes cover all four side of the wall & the pipe lining will go up to 3 ft height of the wall from the bottom of surface. All the pipes are mounted to all four side of the toilet & we shall drill a 5 mm hole in all around the pipe line with maintaining a specific 5 cm distance in between the hole. A Flush valve will mount outside the toilet & it will be a compulsory for every user to push the valve before entering into the toilet. The direction of the hole will be towards the wall so that the flow of water will be towards the wall only. To move the door easily a soft rubber pipe will use.



No. of Pages : 7 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039473 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : FRAME DESIGN FOR A COTTON PICKING UNIT AND METHOD OF USE.

(51) International classification	:A01D0089000000, A01C0007200000, B65D0019000000, A01C0005060000, A63B0023020000	(71) Name of Applicant : 1)DEERE & COMPANY Address of Applicant :ONE JOHN DEERE PLACE, MOLINE,ILLINOIS, USA,PIN CODE: 61265 U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BRANDON C CARLSON
(33) Name of priority country	:NA	2)CHARLES F OSTERMEIER
(86) International Application No	:NA	3)YOGESH KASAT
Filing Date	:NA	4)PRASHANT BODADE
(87) 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 row unit for an agricultural machine includes a frame, a floor, and a subassembly discrete from the frame and the floor. The subassembly is configured to be coupled to the floor and the frame and positioned within the frame during operation of the row unit. The subassembly includes a cam-plate including a top side, a bottom side, and a cam-track defined in the bottom side. The subassembly also includes a drum; a plurality of picker-bars coupled to the drum, and a linkage assembly including a first end coupled to the picker-bar and a second end coupled to a roller positioned in the cam-track. The subassembly is assembled prior to being positioned in the frame.



No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039543 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : HYBRID POWERTRAIN CONTROLLER AND A METHOD FOR OPTIMIZING FUEL EFFICIENCY

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)Tata Motors Limited Address of Applicant :Bombay House, 24 Homi Mody Street, Hutatma Chowk, Mumbai - 400001, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SARKAR, Prasanta
(33) Name of priority country	:NA	2)PANDEY, Suchit
(86) International Application No	:NA	3)TUNDURWAR, Amruta
Filing Date	:NA	4)SARVA, Chandrasekhar VSS
(87) International Publication No	: NA	5)PATIL, Nathaji Rajaram
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a hybrid powertrain controller and a method for optimizing fuel efficiency. The method comprises of receiving of vehicle data from each of an internal and an external sources of a vehicle in real time. Further the method comprises computing, of one or more changes in parameters of the vehicle. The one or more changes in the parameters changes operation of the vehicle. Furthermore, the method comprises transmitting of one or more instructions associated with the one or more changes in parameters to the vehicle in order to optimize the fuel efficiency of the vehicle.



No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039563 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN AUXILIARY DEVICE FOR ASSISTING COOLING OF INTERIOR OF A VEHICLE AND METHOD THEREOF

(51) International classification :H01M0010440000,
G11B0017049000,
G03G0015080000,
A24D0003060000,
B65D0006220000

(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)TATA MOTORS LIMITED
Address of Applicant :Bombay House, 24 Homi Mody Street,
Hutatma Chowk, Mumbai Maharashtra India
(72)**Name of Inventor :**
1)Pradhan Rohan P
2)Dubey Mayank Manoj
3)Tadigadapa Suresh Babu
4)Latane Santosh Dnyaneshwar

(57) Abstract :

ABSTRACT AN AUXILIARY DEVICE FOR ASSISTING COOLING OF INTERIOR OF A VEHICLE AND METHOD THEREOF • Embodiment herein provide an auxiliary device (2) for assisting cooling of interior of a vehicle (1). The auxiliary device (2) includes a radiant cooling panel (RCP) (3), a thermostatic expansion valve (9), and a flow control valve (5). The RCP (3) is positioned on an interior surface of a roof the vehicle (1). The RCP (3) includes a plurality of refrigerant lines (4) connected to an Air Conditioning (AC) system (8) of the vehicle (1). The thermostatic expansion valve (9) receives a predetermined portion of refrigerant from a condenser (11) of the AC system (8). The thermostatic expansion valve (9) expands the refrigerant received from the condenser (11) and make the refrigerant cool, and the refrigerant thus cooled from the thermostatic expansion valve (9) flows into the refrigerant lines (4) for assisting cooling of interior of the vehicle (1). FIG. 2



No. of Pages : 27 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039599 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A STORAGE BOX FOR A VEHICLE INTERIOR

(51) International classification	:B60R0007040000, H01F0027020000, B60N0003100000, H01H0009340000, B60Q0003225000	(71) Name of Applicant : 1)FAURECIA INDIA PRIVATE LIMITED Address of Applicant :Plot No.T-187, Pimpri Industrial Area (B.G. Block), Behind Bhosari Police Station, Bhosari, Pune, 411026 MH. India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAJPUT, Aniket
(33) Name of priority country	:NA	2)CHOKHAWALA, Raj
(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 :

Storage box (100) for a vehicle interior. The storage box (100) has a housing (13). A movable element (10) that is arranged on the housing (13) and that is movable between a closed position (200) and an open position (300). The movable element (10) has a wall portion (11a) and two flap elements (11b, 11c) which in the closed position (200) surround a part of the housing (13) and in the open position (300) the wall portion (11a) and the two flap elements (11b) and (11c) of movable element (10) forms a side walls, a top surface (15a) of housing (13) forms a base and an end wall (15b) of the housing (13) forms a side wall for configuring a storage module (101) for storing articles therein. Figure 1



No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921039600 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN IMPROVED TRAFFIC SIGNALING SYSTEM TO INDICATE THE ARRIVAL OF AN EMERGENCY VEHICLE

(51) International classification	:G08G0001096500, G08G0001087000, G08G0001096700, B60Q0001260000, H04W0004120000	(71) Name of Applicant : 1)Krupal Hemantkumar Shah Address of Applicant :A-7, Pramukhswami Nagar-2, TP-13, Chhani Jakat Naka, Vadodara-390002, Gujarat, India Gujarat India
(31) Priority Document No	:NA	2)Hemantkumar Jayantilal Shah
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Krupal Hemantkumar Shah
(86) International Application No	:NA	2)Hemantkumar Jayantilal Shah
Filing 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 improved traffic signaling system to indicate the arrival of an emergency vehicle ABSTRACT A traffic signaling system is disclosed for providing early warning of approach of an emergency vehicle by providing a display at a traffic intersection to indicate the arrival of the vehicle, thereby helping in clearing the way and facilitating a noise free, faster movement of the emergency vehicle. The system includes a transmitter mounted on the emergency vehicle, a receiver positioned at a traffic lighting console and a signal monitoring device connecting the transmitter and the receiver over a two-way wide area wireless communications network. The received signal, along with prevailing traffic density data is processed by the signal monitoring device which illuminates a blue light thereby signaling the approach of the emergency vehicle to the queuing traffic, facilitating a noise free, faster movement of the emergency vehicle.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201923039013 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A HEAT EXCHANGER

(51) International classification	:B01D0053260000, H02S0030100000, C10L0005460000, F24H0009180000, F01K0017060000	(71) Name of Applicant : 1)Shivlingappa N. Sapali Address of Applicant :Professor, Department of Mechanical Engineering, COLLEGE OF ENGINEERING, PUNE (COEP), Wellesely Rd, Shivajinagar, Pune-411 005, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	2)Ajit B. Shinde
(32) Priority Date	:NA	3)COLLEGE OF ENGINEERING, PUNE (COEP)
(33) Name of priority country	:NA	(72) Name of Inventor :
(86) International Application No	:NA	1)Shivlingappa N. Sapali
Filing Date	:NA	2)Ajit B. Shinde
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:201721025068	
Filed on	:14/07/2017	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to the field of heat exchangers. The heat exchanger (100), of the present disclosure, heats a cane juice to form a jaggery and simultaneously removes moisture from wet bagasse. The heat exchanger (100) comprises a combustion chamber (110) to burn the fuel, a first frame (140) surrounding the combustion chamber (110), and a second frame (160) surrounding the first frame (140). The first frame (140) is arranged between the combustion chamber (110) and the second frame (160). A first space (150) is defined between the combustion chamber (110) and the first frame (140), while a second space (170) is defined between the first frame (140) and the second frame (160). Wet material, i.e., bagasse, is filled in the second space (170) for removing the moisture therefrom. The moisture is removed by the heat generated during fuel burning in the combustion chamber (110). Reference Figure : Figure 1



No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201924045267 A

(19) INDIA

(22) Date of filing of Application :07/11/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : FIBER BLOCK SYSTEM

(51) International classification	:G02B0006300000, G02B0006360000, E04H0017160000, E02B0003120000, H01L0021321300	(71) Name of Applicant : 1)B. Lanka Santha Address of Applicant :155 Andrew Drive, Stockbridge, Georgia, 30281, UNITED STATES OF AMERICA U.S.A.
(31) Priority Document No	:16/583,440	(72) Name of Inventor : 1)B. Lanka Santha
(32) Priority Date	:26/09/2019	
(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 :

A fiber blocksystem suitable for check dam applications is described that comprises a central section flanked by two shorter wing sections. Each section comprises a fiber block enclosed in a sleeve of mesh. The fiber block, mesh, and ties can be made of coir fibers.



No. of Pages : 61 No. of Claims : 19

(54) Title of the invention : FINGERPRINT DETECTION DEVICE

(51) International classification	:G06K0009000000, G06F0003044000, H05K0001020000, H01L0023360000, H01C0007000000	(71) Name of Applicant : 1)SuperC-Touch Corporation Address of Applicant :17F-2, No 75, Sec 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan
(31) Priority Document No	:108134981	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)LEE, Hsiang-Yu
(33) Name of priority country/region	:Taiwan	2)CHIN, Shang
(86) International Application No	:NA	3)LIN, Ping-Tsun
Filing Date	:NA	4)TU, Chia-Hsun
(87) 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 fingerprint detection device, including: a substrate, a switch circuit layer, a sensing electrode layer, a heat dissipating antistatic structure layer, and a protective layer. The switch circuit layer is disposed on the substrate. The sensing electrode layer is disposed on the switch circuit layer, and includes a plurality of sensing electrodes. The heat dissipating antistatic structure layer is disposed on the sensing electrode layer, and includes a conductive mesh and a plurality of shunt heat sinks. The conductive mesh is formed with a plurality of mesh openings, and configured to shunt charges. The shunt heat sinks are adjacent to the conductive mesh, and correspond to the sensing electrodes. The shunt heat sinks are electrically insulated from each other, electrically insulated from the conductive mesh, and electrically insulated from the sensing electrodes. The protective layer is disposed on the heat dissipating antistatic structure layer.

No. of Pages : 35 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202024039530 A

(19) INDIA

(22) Date of filing of Application :12/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : OPHTHALMIC FORCEPS

(51) International classification	:B60R0016020000, B25B0007020000, A61B0017290000, B62K0021120000, A61M0039260000	(71) Name of Applicant : 1)MANI, INC. Address of Applicant :8-3, Kiyohara Industrial Park, Utsunomiya-shi, Tochigi 3213231, Japan Japan
(31) Priority Document No	:2019-175553	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)TAZAWA, Yoshiyuki
(33) Name of priority country	:Japan	
(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 :

Ophthalmic forceps include: a tubular body; a pair of neck portions; a pair of slit formation portions provided on a tip end side of the neck portions; a pair of gripping portions provided on a tip end side of the slit formation portions; and substantially S-shaped portions formed at portions extending from the neck portions to the slit formation portions. When the tubular body slides to house an entirety of the neck portions in an inner cavity of the tubular body, gripping surfaces of the gripping portions are in surface contact with each other, and a slit is formed between the pair of slit formation portions.

No. of Pages : 23 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202024040576 A

(19) INDIA

(22) Date of filing of Application :18/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : STRADDLED VEHICLE

(51) International classification	:A01K0089015000, F21V0014020000, B62K0019300000, B62J0009000000, B62K0005027000	(71) Name of Applicant : 1)YAMAHA HATSUDOKI KABUSHIKI KAISHA Address of Applicant :2500 Shingai, Iwata-shi, Shizuoka-ken 438-8501, Japan Japan
(31) Priority Document No	:2019-176632	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)Kohei SUGAWARA
(33) Name of priority country	:Japan	2)Tomoki ONOUE
(86) International Application No	:NA	3)Shinya YAMADA
Filing Date	:NA	4)Akiyoshi ENDO
(87) International Publication No	: NA	5)Akihiro SUZUKI
(61) Patent of Addition to Application Number	:NA	6)Yoshinori TERAMOTO
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A motorcycle (100) has left and right side cases (10L, 10R) that are configured to be attachable to and detachable from the left and right of a body frame (1). A left side case (10L) is supported at the body frame (1) by a rotation support mechanism (20L) to be rotatable about a first axis (AX1). The motorcycle (100) further has a left rotation attenuation mechanism (30L) that attenuates the rotation of the left side case (10L) about the first axis (AX1). The rotation attenuation mechanism (30L) has a bolt (BT3) that extends in a direction of a second axis (AX3) different from the first axis (AX1), a rotation member (420) supported by the bolt (BT3) to be connected to a lower portion of the left side case (10L) and rotatable about the second axis (AX3) and an inner outer cylindrical damper (401) provided between the bolt (BT3) and the rotation member (420). The motorcycle (100) further has a right rotation support mechanism (20R) and a right rotation attenuation mechanism (30R) corresponding to a right side case (10R).

No. of Pages : 42 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202024041438 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : ARTICLE CONTAINING BOTH THERMOPLASTIC AND ELASTOMER

(51) International classification :C08G0077200000,
C08K0005000000,
C09D0011300000,
C08J0005020000,
C08F0002220000

(31) Priority Document No :PI2019005744

(32) Priority Date :30/09/2019

(33) Name of priority country :Malaysia

(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)TOP GLOVE INTERNATIONAL SDN. BHD.
Address of Applicant :LOT 64593, JALAN DAHLIA/KU8,
KAWASAN PERINDUSTRIAN MERU TIMUR, 41050
KLANG, SELANGOR, MALAYSIA Malaysia

(72)**Name of Inventor :**
1)Wong Chong Ban
2)LIM KEUW WEI
3)TEH CHEE YANG
4)MOK CHUN FAH

(57) Abstract :

A latex formulation comprising elastomer, thermoplastic, accelerator, antifoaming agent, antioxidant, crosslinker, colouring agent, surfactant, filler, pH adjuster and dispersing medium, wherein the latex formulation has a total solid content ranging between 5% by weight to 40% by weight. Further, the present invention discloses a method of preparing a latex formulation to manufacture a glove containing both thermoplastic and elastomer, wherein the method comprises the steps of blending elastomer with thermoplastic to produce a dispersion containing both thermoplastic and elastomer and stirring the dispersion containing both thermoplastic and elastomer, adding while stirring accelerator, antifoaming agent, antioxidant, crosslinker, colouring agent, surfactant and filler one after another with no particular order and followed by pH adjuster into the dispersion containing both thermoplastic and elastomer to produce latex formulation and stirring the latex formulation continuously and allowing the latex formulation to mature, wherein total solid content of the latex formulation is adjusted to be between 5% by weight to 40% by weight by way of addition of dispersing medium into the latex formulation and wherein pH range of the latex formulation is adjusted to be between 9 to 11.

No. of Pages : 30 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202027023020 A

(19) INDIA

(22) Date of filing of Application :02/06/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : IMPROVEMENTS IN AND RELATING TO POWER CONTROL IN INTEGRATED ACCESS AND BACKHAUL

(51) International classification :H04W 52/36, H04W 52/54, H04W 74/00, H04W 74/08, H04W 84/04
(31) Priority Document No :1815780.0
(32) Priority Date :27/09/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/KR2019/012663
Filing Date :27/09/2019
(87) International Publication No :WO 2020/067814
(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)QI, Yinan

2)CHOI, Seunghoon

3)RYU, Hyunseok

(57) Abstract :

The present disclosure relates to a communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT). The present disclosure may be applied to intelligent services based on the 5G communication technology and the IoT-related technology, such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security and safety services. Disclosed is method of performing power control for transmission signals in a telecommunication system employing Integrated Access and Backhaul, IAB, comprising the steps of: determining whether Frequency, Time or Spatial Division Multiplexing, FDM, TDM, SDM is used on a particular pair of links; and applying a power control scheme accordingly.



No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202122003638 A

(19) INDIA

(22) Date of filing of Application :27/01/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD FOR SYNTHESIS OF 6-DEOXY-L-IDOSIDE FROM L-RHAMNOSE

(51) International classification	:C07H0001000000, C07C0209620000, C07H0015203000, C07D0207270000, C07C0315020000	(71) Name of Applicant : 1)Indian Institute of Technology, Bombay Address of Applicant :Powai, Mumbai 400076, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kulkarni, Suvarn Subhash
(33) Name of priority country	:NA	2)Sanapala, Someswara Rao
(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	:201621022370	
Filed on	:29/06/2016	

(57) Abstract :

ABSTRACT The present invention relates to a process for synthesis of 6-deoxy-L-idoside of formula 3f from L-Rhamnose of formula 1 comprising the steps of a) Selective protection of C3- and/or C2-OH of the L-Rhamnose of formula 1 to obtain compound of formula 2g; b) subjecting compound of formula 2g to triflation followed by nitrite anion or water mediated inversion to obtain 6-deoxy-L-taloside of formula 3e; c) protection of the C4-OH and deprotection of the C3-OH of the compound of formula 3e to obtain the compound of formula 2h; and d) subjecting compound of formula 2h to triflation followed by nitrite anion or water mediated inversion to obtain 6-deoxy-L-idoside of formula 3f

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202122003640 A

(19) INDIA

(22) Date of filing of Application :27/01/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD FOR SYNTHESIS OF 6-DEOXY-L-ALTROSIDE FROM L-RHAMNOSE

(51) International classification	:C07H0001000000, C12N0015630000, C07J0041000000, C07C0051363000, C07H0003080000	(71) Name of Applicant : 1)Indian Institute of Technology, Bombay Address of Applicant :Powai, Mumbai 400076, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kulkarni, Suvarn Subhash
(33) Name of priority country	:NA	2)Sanapala, Someswara Rao
(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	:201621022370	
Filed on	:29/06/2016	

(57) Abstract :

This invention relates to a process for synthesis of 6-deoxy-L-altroside of formula 3g from L-Rhamnose of formula 1 comprising the steps of a) Selective protection of C3-OH of the L-Rhamnose of formula 1 followed by triflation followed by nitrite anion or water mediated inversion product; and b) addition of excess acetic anhydride in the same pot to obtain 3-O- trifyl-2,4-acetyl-rhamnoside derivative, which was treated with TBANO₂ in to afford 6-deoxy-L-altroside 3g of formula 1.

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202122003641 A

(19) INDIA

(22) Date of filing of Application :27/01/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD FOR SYNTHESIS OF 6-DEOXY-L-VALLAROSIDE FROM L-RHAMNOSE

(51) International classification	:C12N0015630000, C07H0001000000, C12P0019020000, C07H0003080000, C07C0309300000	(71) Name of Applicant : 1)Indian Institute of Technology, Bombay Address of Applicant :Powai, Mumbai 400076, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kulkarni, Suvarn Subhash
(33) Name of priority country	:NA	2)Sanapala, Someswara Rao
(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	:201621022370	
Filed on	:29/06/2016	

(57) Abstract :

The present invention relates to a process for synthesis of 6-deoxy-L-vallaroside of formula 3h from L-Rhamnose of formula 1 comprising the steps of a) Selective tosyl protection of C3-OH of the L-Rhamnose of formula 1 to obtain the tosylate 2i; and b) Reacting tosylate 2i with sodium methoxide in methanol to afford 6-deoxy-L-vallaroside 3h of formula 1

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202122003642 A

(19) INDIA

(22) Date of filing of Application :27/01/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD FOR SYNTHESIS OF 6-DEOXY-L-GULOSIDE FROM L-RHAMNOSE

(51) International classification	:C07H0003080000, C07H0015203000, C12P0019020000, C12N0015630000, C07C0319140000	(71) Name of Applicant : 1)Indian Institute of Technology, Bombay Address of Applicant :Powai, Mumbai 400076, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kulkarni, Suvarn Subhash
(33) Name of priority country	:NA	2)Sanapala, Someswara Rao
(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	:201621022370	
Filed on	:29/06/2016	

(57) Abstract :

The present invention relates to a process for synthesis of 6-deoxy-L-Guloside of formula 3i from L-Rhamnose of formula 1 comprising the steps of a) Selective protection of C3-OH of the L-Rhamnose of formula 1 to obtain protected compound of formula 2f; b) triflation followed by nitrite anion mediated reaction to obtain compound of formula 2^{TMf}; and c) Treatment of compound of formula 2^{TMf} with Sc(OTf)₃ in AcOH furnished 6-deoxy-L-gulose derivative 3i of formula 2f and 3i

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941026003 A

(19) INDIA

(22) Date of filing of Application :28/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATIC SMART MONITORING DEVICE FOR HYDROPONIC FARM OPERATED BY INTERNET OF THINGS (IOT)

(51) International classification	:A01G0031020000, G06Q0050020000, A01K0029000000, A01G0031000000, G01L0005000000	(71) Name of Applicant : 1)Shri Vishnu Engineering College For Women Address of Applicant :Shri Vishnu Engineering College For Women, Vishnupur Bhimavaram, West Godavari District Andhra Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)P. Sirisha
(33) Name of priority country	:NA	2)R. Rupa Devi Sri
(86) International Application No	:NA	3)Balla. Ganga Harika
Filing Date	:NA	4)A. L. Neeharika
(87) International Publication No	: NA	5)A. Modhaka Priya
(61) Patent of Addition to Application Number	:NA	6)R. Viswnadham
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention envisages a system and device for smartly and remotely managing a small-scale farm, especially a hydroponic farm. The system is configured to receive continuous data from a farm, through integrated sensors and the data is correlated with a pre-set value, depending on the nature of the crop(s). The system is further configured to take certain auto actions upon meeting a threshold value and also, simultaneously transmit the data to a user, over a network.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941028424 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN EXTRUDER ASSEMBLY FOR A 3D PRINTING SYSTEM

(51) International classification	:B29C0064209000, E04G0021040000, B33Y0030000000, B33Y0050020000, E03D0009080000	(71) Name of Applicant : 1)TVASTA MANUFACTURING SOLUTIONS PRIVATE LIMITED Address of Applicant :SF1, Raksha Paradise, No. 32, Industrial Town, 4th stage, 4th main, Rajajinagar, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Vidyashankar Iyer
(33) Name of priority country	:NA	2)Yuvaraj V
(86) International Application No	:NA	3)Parivarthan Reddy B
Filing 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 disclosure discloses an extruder assembly for a three-dimensional printing system. The extruder assembly includes an inlet conduit, a bearing arrangement and an outlet conduit. The inlet conduit is rigidly coupled to one of an inner racing and an outer racing of the bearing arrangement and the outlet conduit is movably coupled to another of the inner racing and the outer racing, such that the outlet conduit dispenses print material entering through the inlet conduit. Further, the extruder assembly includes a platform movably supported at a free end of the outlet conduit. The platform is defined with a plurality of nozzles of different configuration and a plurality of stoppers and configured to displace between a first position and the second position, to selectively align one of the nozzle or the stopper with the free end of the outlet conduit to either allow or block flow of print material from the extruder assembly. The configuration aids in compensating twists in the corners of printed structure and also aids in switching different configuration nozzles based on type of structure to be printed. Figure. 1 and 2 are representative figures.

No. of Pages : 26 No. of Claims : 11

(54) Title of the invention : HIMALAYA TENDER COCONUT JAM

(51) International classification	:A23N0005030000, A23L0025000000, A23L0033000000, H04N0007160000, A23L0021120000	(71) Name of Applicant : 1)MR.SUDHEESH KUMAR Address of Applicant :Himalaya Bake & Confections Pvt Ltd The BakerLand 1 South Kripasanam, Kalavoor, Alappuzha, Kerala, India-688522. Kerala India
(31) Priority Document No	:NA	2)MR.AVINASH SUDHEESH KUMAR
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)MR.SUDHEESH KUMAR
(86) International Application No	:NA	2)MR.AVINASH SUDHEESH 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 :

Tender Coconut Jam 'is an innovative product added to our product list recently , to serve the customers with a natural feel with respect to the taste profile and also the preservation to presentation stages . Tender coconut being available round the year , its unique nutritional formula makes it a complete rich source for jam preparation .The process is unique as far as the, formulation preservation techniques and the packaging methodology is concerned . We have used tender coconuts at different stage of maturity , combined with coconut water and taken through a series processes such as controlled vacuum cooking and packing ,making this product a premium 'safe to eat jams 'compared to already existing commercial jams. The nutritive value of both coconut meat and water are always maintained till the end finished product . Himalaya Bakery group We are one of the leading bakers in south Kerala - Gods' own Land. Founded in 1948 by our great grandfather C .M.Kunjupilla we Himalaya Bakery group have been feeding the nation through three generations and now we are on the threshold of celebrating our seventieth year of dedicated service. Our vision We would like to have our products so good to taste that our customers will keep buying them time and time again and each and every moment of our life will be dedicated to that . We are for providing our customers with all the naturally available foods in order to keep them away, from chemical contamination. We would like our customers to be so satisfied with our service that they want to do more business with us. Facility Spread across an area of over 65000 square feet of land including 25000 square feet production space on the national high way of the backwater capital and a man power of more than a hundred and fifty families with a facade of homeliness it is a beaming star on the horizon of the coir city of Alleppey -the Venice of the East. We also have an orchard of rare herbal plants and an organic vegetable garden with all tropical vegetables used in combination products we bring out periodically. A considerable portion of area is allocated for waste water treatment plant one of the best in the state and we have bagged awards and appreciation from the pollution control board in view of our eco-friendliness. Our facade is c KifamiliardOLali malavaleesiback home.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038820 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AYIRAW

(51) International classification	:H02J0003380000, B60Q0001520000, G08B0025010000, B60Q0009000000, B62B0005040000	(71) Name of Applicant : 1)MAHESH PG Address of Applicant :KUNNAPPALLIL (HOUSE) KOTTAMALA (PO) NARKKILAKKAD,KASARAGOD KERALA,671314 Kerala India
(31) Priority Document No	:NA	2)AKSHAYA SANTHOSH
(32) Priority Date	:NA	3)ADWAITH PRADEEP
(33) Name of priority country	:NA	4)ANAMIKA C
(86) International Application No	:NA	5)JOYEL JOSEPH
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)MAHESH PG
(61) Patent of Addition to Application Number	:NA	2)AKSHAYA SANTHOSH
Filing Date	:NA	3)ADWAITH PRADEEP
(62) Divisional to Application Number	:NA	4)ANAMIKA C
Filing Date	:NA	5)JOYEL JOSEPH

(57) Abstract :

introduce a electric car with high security systems. AYIRAW contains many security systems such as auto dark light, fire alarm, inverter for long journeys , Gass sensitive alarm, strangers alarm, after locking the door the presence of a person indicates by alarm and opening of upper window for oxygen. And solar recharging system, mic systems.

No. of Pages : 2 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038877 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A TEST RIG FOR CONDUCTING STRAIN AND VIBRATION-BASED FATIGUE ANALYSIS OF ROTATING SHAFTS

(51) International classification	:G01N0003320000, G01M0015140000, G01M0005000000, G01M0013040000, G01M0013045000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS) Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research (IC & SR), Indian Institute of Technology Madras, IIT Post, Chennai 600 036, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. SAGI RATHNA PRASAD
(33) Name of priority country	:NA	2)Dr. SESHADRI SEKHAR A
(86) International Application No	:NA	3)Mr. K SURESH
Filing 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 discloses a test rig for strain and vibration-based fatigue analysis of a shaft. The test rig includes a test bed, a pair of first bearings, configured for supporting at least an end of the shaft. Further, the test rig includes at least one load inducer. The at least one load inducer is configured to apply a static bending load to the shaft. Furthermore, the test rig includes at least one non-contact type magnetic shaker, which is configured to induce random load profiles, to excite the shaft in addition to the periodic forces that arise during its normal operation. This configuration of the test rig facilitates in creating real-time operating conditions of the shaft in a rotating machine. Additionally, the test includes a plurality of accelerometers, at least one laser vibrometer, at least one strain gauge, at least one proximity probe, and at least one tachometer, to measure vibration and strain responses of the shaft during fatigue analysis, which facilitates in determining fatigue induced vibration signatures. Figure. 1 is a representative figure.



No. of Pages : 22 No. of Claims : 14

(54) Title of the invention : DESIGN OF PEDIATRIC WRIST BOT FOR UPPER EXTREMITIES

(51) International classification	:A61H0023020000, A61H0001020000, F03G0007100000, G05B0019420000, A61B0005107000	(71) Name of Applicant : 1)J. PREMKUMAR Address of Applicant :SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI SALAI, SHOLINGANALLUR, CHENNAI - 600 119, TAMILNADU, INDIA. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. G. UMASHANKAR
(33) Name of priority country	:NA	2)Dr. T. SUDHAKAR
(86) International Application No	:NA	3)Ms. V. RAYSHMA
Filing Date	:NA	4)Ms. N. YASHWANTHINI
(87) 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 :

DESIGN OF PEDIATRIC WRIST - BOT FOR UPPER EXTREMITIES ABSTRACT A Single chip microcontroller), Wrist-Bot that can be used to support and give therapy to the pediatrics affected by Cerebral Palsy(CP) is devised. The system consists of Accelerometer sensor(9), Motor Drivers(4), DC Motors(5), an LCD Display(2), Button Switches(3), Hall Effect Sensor and Power Supply(1). The system is designed to give therapeutic movements to a CP pediatric. The movement is provided by the DC motor(5) with 30 r.p.m. (revolutions per minute). The Motor drivers(4) are interfaced with Atmega238 microcontroller) which in turn controls the rotors of the DC motor(5). The single chip microcontrollers) are coded and used to control the whole prototype. The LCD Display(2) displays the mode of operation and other essential details. The analog data collected by the accelerometer(9) is sent to the microcontroller) and then stored in excel sheet using PLX DAQ software and the data can be stored in a Computer(8).

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038885 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : ULTRASONIC BONE CONDUCTIVITY HEADPHONE FOR MUFFLED EARS

(51) International classification :H04R0025000000,
A61B0005120000,
H04B0011000000,
H04R0001460000,
G02C0011060000

(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)S. KRISHNAKUMAR
Address of Applicant :SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV
GANDHI SALAI, SHOLINGANALLUR, CHENNAI - 600 119,
TAMILNADU, INDIA. Tamil Nadu India
(72)**Name of Inventor :**
1)Mr. G. UMA SHANKAR
2)Mr. R. MOHAMMED IBRAHIM
3)Mr. H. AHAMED REFAI

(57) Abstract :

ULTRASONIC BONE CONDUCTIVITY HEADPHONE FOR MUFFLED EARS ABSTRACT Ultrasonic bone conduction has various experimental design platforms for voice modulated ultrasonic carrier. The conduction of sound relates to perceptive of human principles in artificial ultrasonic bone conduction in hearing. In bone conduction, stimulator is the main theme to create vibration through bones of skull. The ultrasonic bone conductivity headphone design is incorporated in such a manner so as to conduct the vibrations that are sent to cochlea which sends signals to brain. This could capture the vibrations from anywhere in the skull. It yields larger DLF (Difference Limens of Frequency) for tones with low (0.125 kHz) and high (6-8 kHz) frequency. The device is wireless and facilitates the people with hearing loss to hear using bone conduction technology. This technology relies on working cochlea rather than using ear drum.

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

(54) Title of the invention : METHODS AND APPARATUS FOR DATA PIPELINES BETWEEN CLOUD COMPUTING PLATFORMS

(51) International classification	:H04L0009320000, H04L0029060000, H04L0029080000, G06F0009500000, G11C0007100000	(71) Name of Applicant : 1)VMWARE, INC. Address of Applicant :3401 Hillview Avenue, Palo Alto, California 94304 U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KARTHIK SESHADRI
(33) Name of priority country	:NA	2)RACHIL CHANDRAN
(86) International Application No	:NA	3)SHRISHA CHANDRASHEKAR
Filing Date	:NA	4)TYLER J. CURTIS
(87) International Publication No	: NA	5)AAYUSH ASAWA
(61) Patent of Addition to Application Number	:NA	6)RADHAKRISHNAN DEVARAJAN
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, apparatus, systems and articles of manufacture are disclosed to establish a data pipeline between cloud computing platforms. An example apparatus includes a producer registration controller to register a data producer with a data pipeline service in a public cloud network, the data producer associated with a private cloud network, a consumer registration controller to register a data consumer with the data pipeline service, and a communication controller to, in response to the registration of the data consumer, transmit data generated by the public cloud network from the data consumer to the data buffer via a first data plane gateway, and, in response to a validation of the data consumer, transmit the data from the data buffer to the data consumer via a second data plane gateway, the first data plane gateway different from the second data plane gateway. [FIG. 1]



No. of Pages : 76 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038901 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : RAPIDLY DISINTEGRATING TABLETS AND PROCESS FOR PREPARATION THEREOF

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) Name of Applicant : 1)TENSHI KAIZEN PRIVATE LIMITED Address of Applicant :Plot no 46, 1st phase, kiadb industrial area, harohalli, kanakapura, bangalore rural, bangalore, karnataka 562112, india. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VINOD, Kumar Reddy Bondu
(33) Name of priority country	:NA	2)SUNDHAR, Chamarahalli Krishna Iyer
(86) International Application No	:NA	3)IYER, Venkat
Filing 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 compositions and process, for rapidly disintegrating dosage forms, prepared by a process of lyophilisation, wherein the frozen discrete units are obtained by freeze drying in filled blisters and packed in aseptic conditions.

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038910 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD TO CUSTOMIZE A BOT

(51) International classification	:G06N0003000000, G06F0017270000, B61L0027000000, G10L0017260000, H03G0005160000	(71) Name of Applicant : 1)Shamgar Philip Dumpala Address of Applicant :Plot no 128, 4th Cross, Prithvi layout, ECC road, Bangalore- 560066, Karnataka, India Karnataka India 2)Anie Divya Kanthi Gera
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Shamgar Philip Dumpala
(33) Name of priority country	:NA	2)Anie Divya Kanthi Gera
(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 system to customize a bot is disclosed. The system also includes a data gathering module, configured to gather data based on a plurality of information received from a selected user group. The system also includes an emotion detection module, configured to detect emotions from word or phrase in association with gathered data by a prediction technique. The system also includes a fine-tuning module, configured to fine-tune the bot based on the detected emotions by an analysing technique. The system also includes a validation module, configured to validate fine-tuned bot by checking the fine-tuned bot in association with the selected user group. The system also includes a customizing module, configured customize the validated bot in association with the subject domain. The system provides a sense of emotional attachment while the virtual interaction is taking place. FIG. 1



No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038920 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR INTERACTIVE TEACHING USING A ROBOTIC TEACHING ASSISTANT

(51) International classification	:H04L0029060000, G09B0007020000, H04N0021231000, H04H0060460000, H04N0021854000	(71) Name of Applicant : 1)Ankur Misra Address of Applicant :C604, Mantri Classic Apartments, S T Bed Layout, 4th Block, Koramangala, Bangalore - 560034, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ankur Misra
(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 system for interactive teaching using a robotic assistant is disclosed. The system includes a robotic teaching assistant which includes a context collection subsystem to fetch a context token from a session schedule database to access a current session of a course, to fetch a plurality of concepts and sub-concepts corresponding to the current session of the course from a content database; a session delivery subsystem to determine a sequence of an execution of the plurality of concepts and sub concepts for teaching by analysing the plurality of concepts and sub-concepts; to enable generation of one or more multimedia contents corresponding to the plurality of concepts and sub concepts; to receive one or more questions corresponding to one or more multimedia contents from the one or more learners and to generate and provide at least one response corresponding to one or more questions received from the one or more learners. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038921 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR PREDICTING WATER LEAKAGE EVENTS IN DISTRICT-METERED-AREA OF WATER DISTRIBUTION NETWORK

(51) International classification	:G06N0020000000, G01M0003280000, G06Q0050060000, G06N0005040000, H04W0004029000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAGARAJ KANNIGANTI
(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 :

Disclosed herein is a method and system for predicting water leakage events in district metered area of water distribution network. The method comprises receiving historic data of water flow and water pressure associated with DMA for predicting flow data and pressure data of water in the DMA for predefined future time period. Thereafter, method comprises retrieving plurality of cluster points corresponding to the predicted flow data, the pressure data, and an anomaly score identified for each of the plurality of cluster points from machine learning model. The method detects one or more cluster points as anomaly points by comparing anomaly scores with lower bound value and upper bound value and thereafter predicts leakage events corresponding to each of the detected anomaly points. In this manner, present disclosure predicts water leakage events in DMA for future time intervals and hence necessary leakage maintenance actions may be taken to avoid such events. FIG. 1



No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941038994 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : FLOW CONTROL VALVE

(51) International classification :F16K0031040000,
F16K0031080000,
F16K0001120000,
F16K0027020000,
F16K0003240000
(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)KLS Gogte Institute of Technology

Address of Applicant :Udyambag, Belagavi Karnataka -
590008, India Karnataka India

2)Nerlagunte Bheemaroo Rajeev

(72)Name of Inventor :

1)Nerlagunte Bheemaroo Rajeev

2)Chirag Prakash Jain

3)Dhiraj Hirolli

4)Rohit Ashok Rao

5)Abhay Devagekar

(57) Abstract :

Disclosed is flow control valve in a piping arrangement to regulate flow of a fluid. The flow control valve comprises an electromagnetic actuator comprising a stator and a rotor; a rotating shaft connected to the rotor of the electromagnetic actuator; a valve body coupled to the electromagnetic actuator. The valve body comprises a square shaped inlet and outlet to receive and transfer the fluid; a chamber between the square shaped inlet and outlet; and an obturator connected to the rotating shaft, wherein the obturator is configured to regulate the flow of the fluid. The flow control valve further comprises a housing arrangement to hold the electromagnetic actuator and the valve body therein; a power source connected to the stator of the electromagnetic actuator to provide power for movement of the rotor; and a controller configured to regulate the power provided by the power source. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039023 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SOLID-STATE BATTERIES WITH ELECTRODE-ELECTROLYTE INTERLAYERS

(51) International classification	:H01M0010056200, H01M0010052000, H01M0004380000, H01M0010040000, C22C0027000000	(71) Name of Applicant : 1)Indian Institute of Science Address of Applicant :C V Raman Road, Bangalore-560012, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAGA PHANI B AETUKURI
(33) Name of priority country	:NA	2)VIKALP RAJ
(86) International Application No	:NA	3)VARUN KANKANALLU RAVI
Filing 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 solid-state battery 100, which includes: an electrolyte layer 102 wherein at least at a first surface, the electrolyte layer is a solid-state electrolyte; a first electrode layer 106-1 disposed on a first side of the electrolyte layer; a second electrode layer 106-2 disposed on a second side of the electrolyte layer; and a first interlayer 108-1 made of a first material, disposed between the electrolyte layer and the first electrode layer. The first electrode layer has low solubility in the first material, which facilitates reduced nucleation of the first electrode layer at interface of the first interlayer with the electrolyte layer due to excessive activation energy for nucleation, and the reduced nucleation enables reduced formation of dendrites at the first electrode layer.

No. of Pages : 40 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039024 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AIR QUALITY BASED VENTILATION SYSTEM

(51) International classification	:B01D0046420000, H04L0029060000, F24F0013020000, F24F0003160000, F24F0013280000	(71) Name of Applicant : 1)Aliferous Technologies Private Limited Address of Applicant :#7, Building No 40, 3rd Cross, 6th Block, Koramangala, Bangalore - 560095, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GEORGE, Melvin
(33) Name of priority country	:NA	2)JHA, Aayush
(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 ventilation system 100 for providing fresh air from a first location 104 to a second location 106. The system includes an air duct unit 102 to allow flow of air between the two locations (104, 106). The two locations (104, 106) are provided with sensors (108, 110) to monitor the concentration of polluting agents present at the two locations (104, 106). The air duct unit 102 includes a pump 204 to control flow of air, and filters 202 for filtering the air. The system 100 includes a computing unit 112 to control/restrict the flow of air between the two locations (104, 106) by comparing the concentration of the polluting agents at the two locations (104, 106) and based on the filtering capability of the filters 202. The system 100 also monitors the health of the filters 202 and generates an alert for filter replacement.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039027 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM TO PROVIDE FILE DESCRIPTIONS IN MCDATA FD COMMUNICATION

(51) International classification	:H04L0029080000, H04L0029060000, H04L0012180000, G06F0016958000, H04M0003537000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi- do 443-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sapan Pramodkumar Shah
(33) Name of priority country	:NA	2)Basavaraj Jayawant Pattan
(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 to provide file descriptions in MCDData FD communication • Accordingly, the invention discloses a method and a MC device (100 or 200) to provide file descriptions in MCDData FD communication. In an embodiment, the method can be used to add file description with in Metadata information element of FD signaling payload message. In an embodiment, the method can be used to encode of file description within Metadata element of FD signaling payload message. In an embodiment, the method can be used to add a new information element and a number of payloads within FD signaling payload message. In an embodiment, the method can be used to add the file description in second payload of FD signaling payload message. FIG. 1

No. of Pages : 32 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039029 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ORIGINATING MCDATA COMMUNICATIONS USING PRE-ESTABLISHED SESSION •

(51) International classification	:H04L0029060000, H04L0009080000, H04N0021658700, H04N0021643000, H04L0029080000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129,Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea- 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sapan Pramodkumar Shah
(33) Name of priority country	:NA	2)Basavaraj Jayawant Pattan
(86) International Application No	:NA	3)Siva Prasad Gundur
Filing Date	:NA	4)Vijay Sangameshwara
(87) International Publication No	: NA	5)Nishant Gupta
(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 handling MCDATA communications using pre-established session • Accordingly, embodiments herein disclose a method for initiating a Mission Critical data (MCDATA) communication using a pre-established session. The method includes receiving, by a participating MCDATA server (200), at least one pre-established session setup request from an originating MCDATA client device (100a), where the pre-established session setup request comprises the pre-established session indication indicating the participating MCDATA server (200) about initiation of at least one pre-established session. Further, the method includes initiating, by the participating MCDATA server (200), the at least one pre-established session with the originating MCDATA client device (100a) based on the pre-established session indication. Further, the method includes sending, by the participating MCDATA server (200), at least one MCDATA-communication-state message to the originating MCDATA client device (100a). FIG.1

No. of Pages : 71 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039036 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : IN-VITRO METHOD FOR DETECTING AGEING BY ANALYSING ORGANELLE-BASED BIOMARKER, AND APPLICATIONS THEREOF

(51) International classification	:G01N0033680000, G01N0033920000, H02S0050100000, A61Q0019080000, F01N0011000000	(71) Name of Applicant : 1)JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH Address of Applicant :Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore 560064, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)INAMDAR, Maneesha Shreedhar
(33) Name of priority country	:NA	2)SINHA, Saloni
(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 :
AS ATTACHED

No. of Pages : 46 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039037 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : IN-VITRO METHOD FOR DETECTING AGEING, AND APPLICATIONS THEREOF

(51) International classification	:A61Q0019080000, H02S0050100000, F01N0011000000, C07K0007080000, A61K0031713000	(71) Name of Applicant : 1)JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH Address of Applicant :Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore 560064, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)INAMDAR, Maneesha Shreedhar
(33) Name of priority country	:NA	2)SINHA, Saloni
(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 :
AS ATTACHED

No. of Pages : 36 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039046 A

(19) INDIA

(22) Date of filing of Application :26/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ENHANCING CONTROLABILITY OF REGENERATIVE BRAKING AND ELECTROMAGNETIC BRAKING IN ELECTRIC VEHICLES

(51) International classification :B60T0013580000,
B60L0007260000,
B60L0015200000,
B60L0007240000,
B60W0010180000

(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)RIZEL AUTOMOTIVE PRIVATE LIMITED
Address of Applicant :9/68, FLAT NO. 301, BESIDE
SATHYA NARAYANA SWAMI TEMPLE, LALITHA
NAGAR, DILSHUK NAGAR, RANGA REDDY,
TELANGANA, INDIA - 500060 Telangana India

(72)**Name of Inventor :**
1)CHENDRASHAKER SRINIVASA PAVAN KUMAR
KONDA
2)KARTHIK DONTULA
3)TEJA SHYAM VANKAYALA

(57) Abstract :

ABSTRACT The various embodiments of the present invention provide a system and a method for improving braking control in electric vehicles. The various embodiments also provide a system and a method to enable regenerative braking and electromagnetic braking for enhancing braking stability in electric vehicles. The system comprises a motor braking control module for overseeing the overall functioning of the system. The motor braking control module is configured with predefined settings that are controlled by a user. The user is provided with a control pedal for achieving a desired braking torque output to stop the vehicle. The user is also provided with a control lever for fine tuning the braking torque. The degree of control on braking in the system improves exponentially due to combined effects of regenerative braking and electromagnetic braking. The combined use of both braking mechanisms also reduces the distance to stop the electric vehicle.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039071 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ENHANCING USER EXPERIENCE BY USING AUGMENTED REALITY

(51) International classification	:G06T0019000000, G06F0003010000, G06K0009460000, H04S0007000000, G06K0009000000	(71) Name of Applicant : 1)Myntra Designs Private Limited Address of Applicant :3rd floor, AKR TECH Park, Krishna Reddy Industrial Area, Muneshwara Nagar, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Arun Samudrala
(33) Name of priority country	:NA	2)Vasuki K Setlur
(86) International Application No	:NA	3)Relix Johnrose
Filing Date	:NA	4)Sharathkumar M
(87) 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 method for enhancing user experience by using augmented reality are presented. A system includes an image receiver configured to receive an image of a target object and a marker, and a processor including a marker identifier, a marker adjustment module, a virtual object retriever, and a renderer. The marker identifier is configured to identify a unique marker ID and real-time spatial attributes of the marker. The marker adjustment module is configured to apply a correcting algorithm to real-time spatial attributes of the marker to determine adjusted spatial attributes of the marker. The virtual object retriever is configured to retrieve a virtual object associated with the target object based on the unique marker ID. The renderer is configured to render the virtual object based on the adjusted spatial attributes of the marker. The adjusted spatial attributes compensate for any jitter experienced during rendering of the virtual object.

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039094 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : PRODUCT MONITORING SYSTEM AND METHOD TO OPERATE THE SAME

(51) International classification	:H01L0021670000, H04N0017000000, G01R0019250000, G06F0011320000, G01S0007410000	(71) Name of Applicant : 1)Digital Shark Technology Private Limited Address of Applicant :No 51, 8th cross, Mahalakshmi Layout, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Yatish.M
(33) Name of priority country	:NA	2)Basavanagouda Ganganagoudar
(86) International Application No	:NA	3)Mohan H M
Filing Date	:NA	4)Kishore.M
(87) International Publication No	: NA	5)Prashanth R
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A product monitoring system is disclosed. The system includes a problem identification subsystem configured to identify one or more problems associated with a plurality of production units upon monitoring one or more parameters associated with the plurality of production units along with a corresponding production line, a controlling subsystem configured to activate one or more required controls for controlling one or more identified problems upon analysing the one or more identified problems, a quality monitoring subsystem configured to extract an information from a device using a reflected signal; to analyse an extracted information by comparing the extracted information against a predefined information stored in a database, to check quality of the product based on an analysed result. FIG. 1

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039144 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN ARRANGEMENT FOR VARYING VALUE TIMING IN INTERNAL COMBUSTION ENGINES

(51) International classification :F01L0013000000,
F01L0001344000,
F01L0001340000,
F02D0013020000,
F02D0041000000

(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)L&T TECHNOLOGY SERVICES PVT.LTD,
Address of Applicant :Mohammed Faisal
(Ext:|888;Dept:TSIC) Head,IPRDep, DLF IT SEZ PARK, 2 ND
FLOOR - BLOCK 3 1/ 124, MOUNT POONAMALLEE ROAD
RAMAPURAM, CHENNAI - 600 089, TAMILNADU, INDIA.
Tamil Nadu India

(72)**Name of Inventor :**
1)KENNETH FERNANDES
2)NASEEL SINAN YUKUB
3)VISHWITH VM
4)ADITHYA N KUMAR

(57) Abstract :

An Arrangement For Varying Valve Timing In Internal Combustion Engines According to an embodiment of the invention, an arrangement 102 for achieving variable valve timing in a valve operating mechanism 100 is disclosed. The valve operating mechanism 100 have a cam arrangement and a valve arrangement. The arrangement 102 for achieving variable valve timing includes a damper. The damper is arranged between the cam arrangement and the valve arrangement. The damper is arranged in such a manner that it transmits the movement of the cam arrangement to the valve arrangement and enables achieving variable valve timing in the internal combustion engine.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039173 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : VOICE PE USING NATURAL LANGUAGE PROCESSING (NLP) VIA PAYMENT MODE AS UNIFIED PAYMENT INTERFACE (UPI)

(51) International classification	:G06F0017270000, G06F0017280000, G10L0015260000, G10L0015220000, G06Q0020320000	(71) Name of Applicant : 1)G A LOKESH Address of Applicant :NO:2,34TH STREET, GAYATHRI HOMES,4TH AVENUE,ASHOK NAGAR, CHENNAI- 600083,TAMILNADU,INDIA Tamil Nadu India
(31) Priority Document No	:NA	2)DEEPAK PANNEERSELVAM
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)G A LOKESH
(86) International Application No	:NA	2)DEEPAK PANNEERSELVAM
Filing 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 Voice pe uses the respective digital assistant NLP engine for voice to text vise versa text to voice. With the text commands received from NLP engine voice pe will reach to the BBPS/recharge service providers to facilitate the bill details and payments are accepted through the BHIM UPI and voice pe skill to process the payments via sponsor bank for UPI or any other digital payment channel. Voice pe can be used across multiple variant of smart speakers which include Amazon Alexa ,Google Home ,Siri and the Custom Voice Bot which will be available in android and iphone mobile apps and IOT Speakers.

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039201 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : EGG HATCHING DEVICE AND A METHOD OF OPERATING THE SAME

(51) International classification	:A01K0041000000, A01K0041040000, A01K0041060000, G01N0035000000, A01K0041020000	(71) Name of Applicant : 1)S.Vignesh Address of Applicant :2/3 Ramasamy Complex, Thillai Nagar, II Cross, Pallipalayam, Komarapalayam (TK), Namakkal (DT) Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)S.Vignesh
(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 eco-friendly egg hatching device is disclosed. The egg hatching device includes a sealed insulated compartment. The compartment is fabricated with a plurality of access doors and a plurality of windows. The egg hatching device includes a plurality of trays. The plurality of trays includes a setter tray, a hatcher tray and a water tray. Here the plurality of trays is mechanically coupled to the compartment. The egg hatching device includes one or more heat gun, configured to maintain the temperature of the compartment, and thereby maintain relative humidity inside the egg hatching device. The egg hatching device also includes an incubator processing subsystem. The incubator processing subsystem includes a sensing module, configured to capture the real time condition inside the compartment by a plurality of sensors. The incubator processing subsystem also includes a controlling module, configured to control the compartment environment based on the pre-determined condition. FIG. 1



No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : METHOD AND SYSTEM FOR CONTROLLING ACCESS OF DATA ITEM BASED ON ANOMALY ASSOCIATED WITH A SCREEN OF AN ELECTRONIC DEVICE

(51) International classification	:H04L0029060000, G06F0003048800, A63F0013212000, G06F0021620000, A45C0011000000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129,Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Prabhat kumar
(33) Name of priority country	:NA	2)Shivaji Kant
(86) International Application No	:NA	3)Himanshu Sharma
Filing Date	:NA	4)Choice Choudhary
(87) International Publication No	: NA	5)Abhishek Saxena
(61) Patent of Addition to Application Number	:NA	6)Abhinav Jain
Filing Date	:NA	7)Amit Jain
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments herein disclose a method for controlling access of data item based on anomaly associated with a screen (340) of an electronic device (100). The method includes screening at least one data item on a first portion of the screen (340) of the electronic device (100), detecting at least one anomaly, associated with the first portion, that prevents items access to the at least one data item displayed on the first portion of the screen (340) of the electronic device (100), determining, by the electronic device (100), at least one second portion of the screen (340) of the electronic device (100) that allows access to the at least one data item; and positioning, by the electronic device (100), the at least one data item on the at least one second portion to allow access to the at least one data item.

Fig. 4



No. of Pages : 46 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039217 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING FALSE AUTHENTICATION FROM A DEVICE CONNECTED TO A NETWORK

(51) International classification	:H04L0009320000, G06K0009620000, G06F0017270000, H04L0012180000, H04N0005232000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VENKATS SUBRAMANIAN JAYARAMAN
(33) Name of priority country	:NA	2)SUMITHRA SUNDARESAN
(86) International Application No	:NA	3)SHASHI 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 :

Methods, systems, and apparatus, including computer programs encoded on computer storage media, for performing view change. One of the methods is to be implemented on a blockchain and performed by a first node of N nodes in a view change protocol. The method includes: multicasting a view change message to at least some of the N nodes; obtaining, respectively from at least Q second nodes of the N nodes, at least Q echo messages each comprising: a consistent current view known to the second node indicating a primary node designated among the N nodes, and a consistent current sequence number known to the second node, the current sequence number associated with a latest transaction or a latest block, the current sequence number is larger than a first sequence number known to the first node; and responsive to obtaining the at least Q echo messages, ending the view change protocol.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039228 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR INTROSPECTIVE CONVOLUTIONAL ATTENTION NETWORK FOR SEMANTIC TEXT CLASSIFICATION •

(51) International classification	:G06K0009460000, G06N0003040000, G06F0017270000, G06K0009620000, G06F0016350000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi- do 443-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sounak Mondal
(33) Name of priority country	:NA	2)Suraj Modi
(86) International Application No	:NA	3)Sakshi Garg
Filing Date	:NA	4)Dhruva Das
(87) International Publication No	: NA	5)Siddhartha Mukherjee
(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 electronic device for providing hybrid adaptive pooling for machine learning architectures • A method for providing a hybrid adaptive pooling for machine learning architectures to recognize relevant fragments from an input data for generating an output is disclosed. The method includes applying, by an electronic device (100), a maximum pooling on one or more first subsets of input data to obtain a second subset. The method further includes determining, by the electronic device (100), a threshold value as a function of a maximum value and an average value of the second subset. The method further includes applying, by the electronic device (100), an average pooling on the second subset for values higher than the threshold value to derive an average value for recognizing the output. FIG. 1

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039231 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A DRIVE MECHANISM OF A COMBINE HARVESTER

(51) International classification	:F16H0007080000, A01D0041140000, A01D0041160000, F25B0027000000, G03B0042020000	(71) Name of Applicant : 1)MAHINDRA AND MAHINDRA LIMITED Address of Applicant :Mahindra & Mahindra Limited, Mahindra Research Valley, Mahindra World City, Plot No:41/1, Anjur P.O., Chengalpattu, Kanchipuram, Tamilnadu 603004, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAND KISHORE
(33) Name of priority country	:NA	2)SAHIL SAINI
(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 is related to combine harvesters and envisages a drive mechanism (1000) of a combine harvester. The mechanism (1000) comprises a first shaft (20), a second shaft (30), a forward belt drive and a reverse belt drive. The first shaft (20) receives power from a prime mover. The second shaft (30) receives power from the first shaft (20). The second shaft (30) is coupled to the cutting and feeding mechanisms. The forward belt drive is selectively coupled the second shaft (30) to the first shaft (20) for making the cutting and feeding mechanisms operate in a normal mode. The reverse belt drive is selectively coupled the second shaft (30) to the first shaft (20) for making the cutting and feeding mechanisms operate in a dechoking mode. The mechanism (1000) makes dechoking of the feeder (50) easy and safe for the operator.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039233 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A DEEP SEA IN-SITU TESTER

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) Name of Applicant : 1)NATIONAL INSTITUTE OF OCEAN TECHNOLOGY Address of Applicant :Ministry of Earth Sciences (MoES), Govt. of India, NIOT Campus, Velachery-Tambaram Road, Narayanapuram, Pallikaranai PO, Chennai 600100, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sethuram Muthukrishna Babu
(33) Name of priority country	:NA	2)Anbu Aravind Gnanaraj
(86) International Application No	:NA	3)Panayan Muthuvel
Filing Date	:NA	4)Krishnan Amudha
(87) International Publication No	: NA	5)Arunachalam Umapathy
(61) Patent of Addition to Application	:NA	6)Billavara Omayya Vishwanatha
Number	:NA	7)Vasu Chandran
Filing Date	:NA	8)Narayamoorthy Ranganayaki Ramesh
(62) Divisional to Application Number	:NA	9)Giddugu Ananda Ramadass
Filing Date	:NA	10)Malayath Aravindakshan Atmanand

(57) Abstract :

ABSTRACT A DEEP SEA IN-SITU SOIL TESTER The present disclosure relates to sub-sea equipment for measuring and logging soil strength data like shear strength, bearing strength and dynamic sinkage. The present disclosure envisages a deep sea in-situ soil tester (1000) that is connected to a floating vessel (10) through an umbilical cable (20). The in-situ soil tester (1000) comprises a frame (22), a shear strength testing module (100), a bearing strength testing module (200) and a dynamic sinkage testing module (300) supported on the frame (22) and a control unit communicatively coupled to the modules and disposed on said vessel (10) and configured to control working of the modules. Each of the modules is configured to independently test the soil in-situ.

No. of Pages : 37 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039240 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : NON-AQUEOUS REDOX FLOW BATTERY WITH DIKETOPYRROPYRROLE DERIVATIVE BASED REDOX ACTIVE ELECTROLYTE

(51) International classification	:H01M0008180000, H01M0008041860, H01M0004500000, C07K0007640000, C12P0007420000	(71) Name of Applicant : 1)Indian Institute of Science Address of Applicant :C.V.Raman Road, Bangalore 560 012, Karnataka, INDIA Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Suman Rathod
(33) Name of priority country	:NA	2)Shikha Sharma
(86) International Application No	:NA	3)Satish Patil
Filing Date	:NA	4)Naga Phani Aetukuri
(87) International Publication No	: NA	5)Ashok Shukla
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Title: Non-aqueous redox flow battery with Diketopyrroprrole derivative based redox active electrolyte The present invention is in relation to batteries. More specifically to Redox Flow batteries. The invention adopts Diketopyrroprrole derivative of formula A as anolyte to provide enhanced efficacy in terms of stability, charge/discharge cycles. Formula A

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039259 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : POWER-EFFICIENT HYBRID TRAVERSAL FOR Z-FIRST CNN ARCHITECTURES

(51) International classification	:G06N0003040000, G06N0003063000, G06F0017150000, G01C0021160000, G06F0009460000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Gopinath Vasanth Mahale
(33) Name of priority country	:NA	2)Pramod Parameshwara Udupa
(86) International Application No	:NA	3)Kiran Kolar Chandrasekharan
Filing Date	:NA	4)Sehwan Lee
(87) 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 Power-efficient hybrid traversal for Convolution Neural Networks (CNN) accelerator architecture Accordingly, the invention discloses a hybrid traversal for a CNN accelerator architecture. The method includes receiving, by the hybrid traversal, a plurality of microbatches from a pixel memory (102) and a kernel memory (122). The pixel memory (102) includes a plurality of Input Feature Map (IFM) microbatches, and the kernel memory (122) includes a plurality of kernel microbatches. The method includes multiplying, by the hybrid traversal, the plurality of Input Feature Map (IFM) microbatches with the plurality of kernel microbatches to obtain a plurality of Output Feature Maps (OFM) microbatches. The method includes reusing, by the hybrid traversal, the plurality of kernel microbatches with the plurality of IFM microbatches based on a kernel reuse factor for at least one of a Direct Convolution (DConv) and a Winograd Convolution (WgConv). . FIG. 1

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039260 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING A TEXT SUMMARY FOR MULTIMEDIA CONTENT

(51) International classification	:G06Q0010100000, G06K0009620000, G06N0003040000, G06F0021620000, G06F0016245700	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VINUTHA B NARAYANMURTHY
(33) Name of priority country	:NA	2)SIBSAMBHU KAR
(86) International Application No	:NA	3)MANJUNATH RAMACHANDRA IYER
Filing 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 and a system of selective encryption of a test dataset is disclosed. In an embodiment, the method (600) may include determining (504) a relevancy grade associated with each of a plurality of datapoints within a test dataset by comparing the test dataset with a common heat map, wherein the common heat map is generated using a plurality of training datasets. The method may further include calculating (506) based on the relevancy grade, an encryption level associated with each of the plurality of datapoints. The method may further include selectively encrypting (508) at least one datapoint from the plurality of datapoints based on the encryption level associated with each of the plurality of datapoints. The at least one data point is rendered to a user after being decrypted.

No. of Pages : 41 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039262 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR AGNOSTIC DIGITAL ASSURANCE

(51) International classification	:G06Q0010060000, H04L0029080000, G06Q0030060000, G06F0009540000, G06F0008300000	(71) Name of Applicant : 1)CHAITANYA PRIYA Address of Applicant :22, JR Greenwich, Off Sarjapur Road, Bengaluru Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)CHAITANYA PRIYA
(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 agnostic digital assurance are provided. The system includes one or more processors, an infrastructure subsystem configured to generate an infrastructure associated with the digital assurance within a geographical area, an integration subsystem configured to integrate a plurality of vendors associated with a corresponding plurality of domain on a cloud platform, an analysis subsystem configured to analyse an operation of one or more operators upon monitoring the operation performed by the one or more operators using an analysing technique, a recommendation subsystem configured to recommend one or more optimized key performance indicators (KPI) to the corresponding one or more operators, a dashboard generation subsystem configured to generate a dashboard based on a pre-set instruction to obtain a personalised dashboard and an authorisation subsystem configured to authorize one or more operators to access a plurality of integrated vendors associated with a plurality of domain on a cloud platform. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039263 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR DETERMINING CORRECTNESS OF LIDAR SENSOR DATA USED FOR LOCALIZING AUTONOMOUS VEHICLE

(51) International classification	:G01S0017930000, G05D0001000000, G06K0009000000, G01S0017890000, G05D0001020000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)R. BALAJI SUNIL KUMAR
(33) Name of priority country	:NA	2)MANAS SARKAR
(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 :

Disclosed herein is method and system for determining correctness of Lidar sensor data used for localizing autonomous vehicle. The system identifies one or more Region of Interests (ROIs) in Field of View (FOV) of Lidar sensors of autonomous vehicle along a navigation path. Each ROI includes one or more objects. Further, for each ROI, system obtains Lidar sensor data comprising one or more reflection points corresponding to the one or more objects. The system forms one or more clusters in each ROI. The system identifies a distance value between, one or more clusters projected on 2D map of environment and corresponding navigation map obstacle points, for each ROI. The system compares distance value between one or more clusters and obstacle points based on which correctness of Lidar sensor data is determined. In this manner, present disclosure provides mechanism to detect correctness of Lidar sensor data for navigation in real-time. FIG. 1

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039265 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND NEXGEN CONNECTIVITY OPTIMIZER FOR ENHANCEMENT OF SMART PHONE PERFORMANCE FOR BETTER CONNECTIVITY •

(51) International classification	:H04L0029080000, H04L0029120000, H04L0029060000, G06F0016957000, H04W0076200000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi- do 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Madhan Raj Kanagarathinam
(33) Name of priority country	:NA	2)Jamsheed Manja Ppallan
(86) International Application No	:NA	3)Sweta Jaiswal
Filing Date	:NA	4)Dronamraju Siva Sabareesh
(87) International Publication No	: NA	5)Karthikeyan Arunachalam
(61) Patent of Addition to Application Number	:NA	6)Sunny
Filing Date	:NA	7)Irlanki Sandeep
(62) Divisional to Application Number	:NA	8)Shiva Souhith Gantha
Filing Date	:NA	

(57) Abstract :

ABSTRACT Method for concurrently performing asynchronous operations over IPv4 and IPv6 in mobile device • Embodiments herein provides a method for concurrently performing asynchronous operations over IPv4 and IPv6 in a mobile device (100). The method includes capturing a DNS query-pattern of a plurality of DNS queries for a plurality of services of an application in the mobile device (100). Further, the method includes performing a DNS lookup, in a DNS cache (130a), to obtain a DNS resolution over the IPv4 and the IPv6 based on the DNS query-pattern of the plurality of DNS queries for the plurality of services of the application. Further, the method includes storing the DNS resolution based on the DNS lookup in the DNS cache (130a). Further, the method includes triggering a TCP connection using a pre-connected connection descriptor based on a domain name resolution. Further, the method includes storing the pre-connected connection descriptor corresponding to the TCP connection in a connection pool cache (130b). FIG. 2

No. of Pages : 36 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039267 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR TEXT SENSITIVITY BASED ON BIAS IN LANGUAGE MODEL

(51) International classification	:G10L0015183000, H03L0007081000, G01S0019400000, A61M0005142000, G06F0040530000	(71) Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Himanshu Arora
(33) Name of priority country	:NA	2)Sugam Garg
(86) International Application No	:NA	3)Barath Raj Kandur Raja
Filing Date	:NA	4)Likhith Amarvaj
(87) International Publication No	: NA	5)Sumit Kumar
(61) Patent of Addition to Application	:NA	6)Sriram Shashank
Number	:NA	7)Sanjana Tripuramallu
Filing Date	:NA	8)Chinmay Anand
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
as enclosed

No. of Pages : 44 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039271 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : LASER GUIDE ASSEMBLY FOR DENTAL IMPLANT DRILLING

(51) International classification	:H01S0005022000, G02B0006420000, B23D0059000000, G01C0015000000, B23Q0017240000	(71) Name of Applicant : 1)SRM DENTAL COLLEGE (Ramapuram) Address of Applicant :Bharathi Salai, Ramapuram, Chennai- 600089, Tamil Nadu, India. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr.A.Barath sundar
(33) Name of priority country	:NA	2)Dr.R.Venkat
(86) International Application No	:NA	3)Dr.B.Muthukumar
Filing 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 laser guide assembly for drilling. The laser guide assembly comprises a laser diode 508, a light dependent resistor (LDR) 104, a laser diode template 506, a laser module and a relay. The laser diode 508 emits a laser beam 202 when powered. The LDR 104 is attached to one end of a drill head 102 away from the end of the drill head 102 holding a drill bit 106. The laser diode template 506 is fixable to a surface and is capable of holding the laser diode 508 at a fixed position. The laser module connected to the LDR 104 is enabled to process an output from the LDR 104 on detection of the laser beam and transmits corresponding signals to a relay connected to it. The relay connectable to a power input of a drill motor 114 controls the drilling based on the received signals. The present invention enables precision drilling in a cost effective manner.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039379 A

(19) INDIA

(22) Date of filing of Application :29/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM THAT DETERMINES APPLICATION TOPOLOGY USING NETWORK METRICS

(51) International classification	:G06F0016280000, H04N0021442000, H04L0029080000, G05B0019418000, G10L0015180000	(71) Name of Applicant : 1)VMWARE, INC. Address of Applicant :3401 Hillview Avenue, Palo Alto, California 94304 U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SUSOBHIT PANIGRAHI
(33) Name of priority country	:NA	2)REGHURAM VASANTHAKUMARI
(86) International Application No	:NA	3)ARIHANT JAIN
Filing 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 current document is directed to methods and systems that employ network metrics collected by distributed-computer-system metrics-collection services to determine a service-call-based topology for distributed service-oriented applications. In a described implementation, network metrics are collected over a number of network-metric monitoring periods. Independent component analysis is used to extract, from the collected network metrics, signals corresponding to sequences of service calls initiated by calls to the application-programming interface of a distributed service-oriented application. The signals, in combination with call traces obtained from a distributed-services call-tracing utility or service, are then used to construct representations of distributed-service-oriented-application topologies. The distributed-service-oriented-application topologies provide a basis for any additional types of distributed-computer-system functionalities, utilities, and facilities. [Figure 1]

No. of Pages : 70 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039386 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN INLET CONNECTOR FOR A HIGH PRESSURE PUMP

(51) International classification :F02M0063020000,
F02M0063000000,
F04C0015000000,
F04B0023100000,
F16H0061000000

(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)Bosch Limited
Address of Applicant :Post Box No 3000, Hosur Road,
Adugodi, Bangalore 560030, Karnataka, India Karnataka India
2)Robert Bosch GmbH

(72)**Name of Inventor :**
1)Nitin Fukey
2)Umesh Dasarathan
3)Bhavya Kankanady

(57) Abstract :

AN INLET CONNECTOR FOR A HIGH PRESSURE PUMP ABSTRACT An inlet connector 106 fluidly couples the high pressure pump 102 to a low pressure pump. The inlet connector 106 comprising a throttle path 110 also called as ZDT path. The throttle path 110 is perpendicular to an inlet path 108. The throttle path 110 connects to a fuel tank through a banjo 104, characterized by the diameter of the throttle path 110 is 0.4 mm when the low pressure pump is a mechanical feed pump. The mechanical feed pump is connectable to the free end of the inlet connector 106. In an embodiment, the high pressure pump 102 is a single cylinder pump. Due to reduced size of the diameter, the use of the mechanical feed pump with high pressure pump 102, there is less leakage, and more pump filling-in is achieved at start conditions. There is considerable cost reduction with usage of mechanical feed pump instead of electric feed pump.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039387 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A FUEL INJECTION SYSTEM

(51) International classification	:F02M0063020000, F02M0063000000, F02D0041380000, F02M0055020000, F02M0037000000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore 560030, Karnataka, India Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Akansha Chauhan
(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 Fuel injection system. Disclosed herein is a fuel injection system 100. The fuel injection system 100 comprises at least a fuel tank 102 located upstream to a filter 104, a high pressure pump 106, a metering unit 108, an overflow valve and a common rail 112. The fuel injection system 100 is characterized in that, the outlet 114 from the overflow valve is in flow communication with the inlet of high pressure pump 106. Figure. 1

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039388 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A CONTROLLER AND A METHOD FOR DETECTING CLOGGING IN AN EXHAUST GAS RECIRCULATION (EGR) SYSTEM

(51) International classification	:F02D0041000000, F02D0041220000, G01L0027000000, F02M0026490000, F02M0026350000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore 560030, Karnataka, India Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sharath Basavanahalli Sundarraaj
(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 CONTROLLER AND METHOD FOR DETECTING CLOGGING IN AN EXHAUST GAS RECIRCULATION (EGR) SYSTEM
ABSTRACT The EGR system 100 comprises a controller 130 electrically connected to the pressure sensor, i.e. either MAP sensor 112 or the MF sensor 104 based on the availability, an engine speed sensor 132 and the EGR valve 114. The controller 130 is adapted to measure an actual pressure of intake air in the intake path 110 through the pressure sensor 104, 114, measure an engine speed through the engine speed sensor 132 and detect a status of the EGR valve 114. The system 100 is characterized by, the controller 130 adapted to determine a reference pressure, based on measured engine speed, detected status of the EGR valve 114, and a correction parameter, and detect clogging of the EGR cooler 116 based on difference of the actual pressure and the reference pressure. The present invention enables clog detection without dedicated temperature sensors or other sensors. (Figure 1)

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039408 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A CONTROL UNIT TO NAVIGATE A USER OF A VEHICLE

(51) International classification	:G01C0021200000, H04N0007180000, G01C0021360000, G06F0021310000, G05B0019410300	(71) Name of Applicant : 1)Robert Bosch Engineering and Business Solutions Private Limited Address of Applicant :123, Industrial Layout, Hosur Road, Koramangala, Bangalore 560095 Karnataka India
(31) Priority Document No	:NA	2)Robert Bosch GmbH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Abdulla Shameem Pullaratt
(86) International Application No	:NA	2)Mohan Subramanya Prabhakar
Filing Date	:NA	3)Kenneth Joel
(87) International Publication No	: NA	4)Sameer Raju Dhole
(61) Patent of Addition to Application Number	:NA	5)Yogitha Kaushik
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The control unit 10 adapted to receive at least one input from the user of the vehicle 11 to generate a navigation path and to activate a global positioning system (GPS) 12 in the vehicle upon generating the navigation path. Characterized in that, the control unit 10 adapted to detect multiple pressure values for every predefined time interval along the generated navigation path by a pressure sensor 14. The control unit 10 creates at least one pressure map related to the generated navigation path, from the multiple pressure values detected for every predefined time interval and adapted to identify a travelled navigation path, when at least one pressure map is identical to at least one stored pressure map.



No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039409 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A CLEANING ROBOTIC SYSTEM AND A METHOD THEREOF

(51) International classification	:G05D0001020000, A47L0011400000, G09B0029100000, G06K0009220000, G06K0009000000	(71) Name of Applicant : 1)Robert Bosch Engineering and Business Solutions Private Limited Address of Applicant :123, Industrial Layout, Hosur Road, Koramangala, Bangalore Karnataka India
(31) Priority Document No	:NA	2)Robert Bosch GmbH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Pratip Ghosh
(86) International Application No	:NA	2)Nithin Ganesh
Filing Date	:NA	3)Sandeep Bairampalli
(87) International Publication No	: NA	4)Maximilian Fremerey
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The system 11 comprises a cleaning robot 10 having a control unit 12 and a remote server 20 in communication with the control unit 12 of the cleaning robot 10. The system 11 is characterized by, the remote server 20 adapted to generate multiple images and a feature data related to the at least one image captured by the control unit 12. The remote sensor 20 further adapted to transmit the feature data to the control unit 12 to identify the object 18 based on the received feature data. The damaging of the objects 18 in the path of cleaning can be efficiently reduced and the damage to the robot 10 can be avoided.



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039410 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM, CONTROLLER AND METHOD FOR CONTROLLING OPERATION OF AN ENGINE

(51) International classification	:F02D0041000000, F02D0041180000, F02D0041220000, F02D0013020000, F02D0041240000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Pavan Kumar Yapalaparavi
(33) Name of priority country	:NA	2)Leena Aroza
(86) International Application No	:NA	3)Aman 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 :

The system 100 comprises an airflow sensor 104 in an intake path 102 of the engine 120, and a controller 110 connected to at least the airflow sensor 104. The controller 110 is the Engine Control Unit (ECU) which is connected to different components and sensors of a vehicle. The controller 110 comprises a memory element 108 storing at least two maps for air mass correction. The controller 110 adapted to detect a signal 106 to switch from a first map 112, and select a second map 114 from the at least two maps based on the signal 106, characterized by, the controller 110 adapted to switch from a current value of the first map 112 to a predetermined value of selected second map 114 in a linear manner. The first map 112 is the current map and the second map 114 is the target map.

(Figure 1)



No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : A FUEL INJECTOR

(51) International classification	:F02M0061160000, F02M0055000000, F02M0061140000, F02M0057020000, F02M0047020000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No. 3000, Hosur Road, Adugodi, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Hariprasad Madhwaraj
(33) Name of priority country	:NA	2)Sowmya Gurusiddaiah
(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 :

A fuel injector is disclosed. The fuel injector 10 comprises an injector body 12. The injector body 12 comprises a first end 12a and a second end 12b. The fuel injector 10 also comprises a fuel return line connecting means 16 located at the second end 12b of the injector body 12. The fuel return line connecting means 16 is fitted into a drain socket 18 of the fuel injector 10. The fuel injector 10 is characterized such that the fuel return line connecting means 16 comprises a back leak adapter 20. A first portion 20a of the back leak adapter 20 is fitted into the drain socket 18 and a second portion 20b extends beyond the drain socket 18 and a banjo bolt 22 fitted into the back leak adapter 20. Figure 1



No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039412 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A WEARABLE SAFETY DEVICE

(51) International classification	:A61B0005024000, F16P0003140000, F23Q0002280000, E05F0015410000, E02F0009240000	(71) Name of Applicant : 1)Robert Bosch Engineering and Business Solutions Private Limited Address of Applicant :123, Industrial Layout, Hosur Road, Koramangala, Bangalore Karnataka India
(31) Priority Document No	:NA	2)Robert Bosch GmbH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Venkatesh Vaman Baliga
(86) International Application No	:NA	2)Harsh Rohan
Filing Date	:NA	3)Shreya Dayanand Guddin
(87) International Publication No	: NA	4)Nilutpal Borah
(61) Patent of Addition to Application Number	:NA	5)Hariharan Muthukumar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a wearable safety device 200 for an individual and a method 100 to activate the same. It comprises a sensing means 201 adapted to sense the heart rate of the individual, a controller 202 connected to the sensing means 201 and an operating means 200a. The controller 202 receives the input from the sensing means 201 and from the operating means 200a. The wearable safety device 200 comprises a safety means 204 and a paint module 203. The safety means 204 is connected to the operating means 200a and operated based on the signal from the operating means 200a. The paint module 203 connected to the operating means 200a adapted to operate based on the operation of the operating means 204. The wearable safety device 200 is used as a safety band for the user, when there is a threat from attacker

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039413 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD OF DETECTING FUEL IN LUBRICATION OIL IN CRANKCASE VENTILATION UNIT

(51) International classification	:F02D0041120000, F01N0011000000, F02M0035100000, G01N0033280000, B60K0028160000	(71) Name of Applicant : 1)Robert Bosch Engineering and Business Solutions Private Limited Address of Applicant :123, Industrial Layout, Hosur Road, Koramangala, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Renju Kuriakose
(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 detecting fuel in lubrication oil in a crank case ventilated unit of an engine in an overrun condition. The method of detecting fuel in lubrication oil in a crankcase-ventilated unit of an engine in an overrun condition of a vehicle. The method comprises at least of following steps: in step S1, a first engine speed is calculated for a pre-defined time when a throttle valve is closed. In step S2, a second engine speed is calculated for the pre-defined time when the throttle valve is open. In step S3, a ratio of the first engine speed and second engine speed is calculated. In step S4, the calculated ratio is compared from a threshold value, based on the comparison the fuel in lubrication oil is detected.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039427 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : THREE PHASE AND SINGLE PHASE REACTION LESS MACHINES: MOTORS, ALTERNATORS AND TRANSFORMERS

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71) Name of Applicant : 1)SHANMUGAM BETHU Address of Applicant :282, 13th Street, TNHB, Periyar Nagar, Korattur, Chennai-80 PIN 600080, Tamil Nadu, INDIA. Tamil Nadu India
(31) Priority Document No	:NA	2)SMT. PRIYA VISHWANATH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)B. SHANMUGAM BETHU
(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 :

THREEPHASE/SINGLE-PHASE REACTION LESS INDUCTION MACHINES: MOTORS, ALTERNATORS AND TRANSFORMERS Reaction-less induction machine is three/single-phase motor/alternator/ reaction-less transformer. 3-phase reaction-less induction machine, comprises Double layer 4-pole winding in stator or in rotor has six slots per poleinsulated with insulating paperwith two layers of slots one above the other, circularly arranged having 24 looped coils wound between inner and outer slots forming three sets of single-phase windings spaced 120o apart. Coils are wound between radial outer and inner slots. Stator core is laminated Silicon steelstampings, 0.4 to 0.5 mm thick, stamped together forming stator core, either housed/fitted in stator frameof die-cast/fabricated steel. In transformers, primary single layer has single layer circular slots, three phase winding wound on inner core.Secondary double layer winding is provided on two-layer slotted side outer core; winding is reversible like single layer winding in Stator or double layer winding in Rotor. Fig.8

No. of Pages : 44 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039446 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A PRESSURE-LIMITING APPARATUS FOR COMMON RAIL FUEL INJECTION SYSTEM

(51) International classification	:F02M0055020000, F02M0069460000, F02M0063020000, F02M0063000000, A61M0039020000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sudarshan Mysore Prasad Rao
(33) Name of priority country	:NA	2)Rajesh Nataraja
(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 PRESSURE-LIMITING APPARATUS FOR COMMON RAIL FUEL INJECTION SYSTEM A pressure-limiting apparatus (100) mounted on to a fuel rail (202) of a common rail fuel injection system, is provided. The apparatus (100) includes a casing (102) comprising a spring element (105) positioned between a top plate (103) and a bottom plate (104), and adapted to compress on application of fuel pressure. The apparatus (100) further includes a valve member (106) set up with the bottom plate (104) and adapted to provide axial movement to the spring element (105) via the bottom plate (104). Further, the apparatus (100) includes a piezo element (107) positioned inside the casing (102) and placed on to the top plate (103). The piezo element (107) adapted to generate an electrical voltage signal based on a compression load on the spring element (105), which is lifted by the bottom plate (104) and the valve member (106) set up. (Figure 1)

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039447 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A DRIVING SHAFT OF A HIGH PRESSURE FUEL PUMP

(51) International classification	:F04C0002100000, F02M0059060000, F04C0002180000, F04C0011000000, F02D0041380000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Fukey Nitin
(33) Name of priority country	:NA	2)Meenakshi Mahapatro
(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 pressure fuel pump 10 is described. The high pressure fuel pump 10 comprises a housing 12, and a driving shaft 14 inserted within the housing 12, the driving shaft 14 adapted to rotate within the housing 12. A universal coupler 16 is secured to the driving shaft 14 of the high pressure fuel pump 10, the universal coupler 16 adapted to rotate about two degrees of freedom. A first end of a tang 18 is secured to an end of the universal coupler 16, an opposite second end of the tang 18 is secured to a gear pump, wherein the tang 18 is adapted to remain stationary with a rotation of the universal coupler about two degrees of freedom to facilitate maintaining contact between the tang 18 and a gear pump when the driving shaft 14 is displaced about an axis of the driving shaft 14.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039448 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A DRIVING SHAFT OF A HIGH PRESSURE FUEL PUMP

(51) International classification	:F02M0059440000, F04B0001040000, F02M0059060000, F04B0053140000, F02M0059480000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Manigandan Venkatesan
(33) Name of priority country	:NA	2)Fukey Nitin
(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 :

A high pressure fuel pump 10 is described. The high pressure fuel pump 10 comprises a housing 12, and a driving shaft 14 inserted within the housing 12, the driving shaft 14 adapted to rotate within the housing 12. A bushing 16 is secured to an outer surface of the driving shaft 14, the bushing 16 adapted to circumscribe the driving shaft 14 and secure the driving shaft 14 within the housing 12 of the high pressure fuel pump 10. (Figure 1).

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039449 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A WINDSCREEN FOR A VEHICLE

(51) International classification	:H05B0003860000, B60J0001020000, G08B0013120000, B28D0005040000, G09F0009350000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No. 3000, Hosur Road, Adugodi, Bangalore Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Appanna Nambadamanda Karumbaiah
(33) Name of priority country	:NA	2)Prasanna Kiran
(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 proposes a windscreen (100) in a vehicle comprising an array of wires (101) embedded on the glass of the windscreen (100). Each wire (101) in the array further comprises at least two conducting elements (102). A thermoplastic polymer (103) is sandwiched between the conducting elements (102). A fire indication unit (104) is connected to each wire (101) in the array. The fire indication unit (104) is connected to an electronic control unit. The electronic control unit is connected to a fire extinguishing unit (106).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039450 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A FUEL PUMP AND A PLUNGER FOR THE SAME

(51) International classification	:F02M0059020000, F02M0059440000, F04B0001040000, F02M0057020000, F04D0029180000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No 3000, Hosur Road, Adugodi, Bangalore 560030, India. Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ashwin Holenarasipura Kumaraswamy
(33) Name of priority country	:NA	2)Ashwin Shetty
(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 :

A FUEL PUMP AND A PLUNGER FOR THE SAME ABSTRACT The fuel pump 112 comprises a barrel 114 with an inlet port 116. A plunger 100 with a vertical groove 104 extends from a head 102 of the plunger 100 and in communication with a helix groove 106. The plunger 100 operable in a reciprocal manner. The vertical groove 104 in combination with the head 102 is used to block the inlet port 116 at start of fuel injection and helix groove 106 to unblock the inlet port 116 at end of the fuel injection. The plunger 100 comprises a first groove 108 and a second groove 110 provided at the head 102, characterized by, the first groove 108 and the second groove 110 are made of equal width and positioned one below other. The second groove 110 is away from the head 102 of the plunger 100. The first groove 108 and the second groove 110 are step grooves.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039451 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A SYSTEM TO COUNT AN OPENING OF A PRESSURE LIMITING VALVE IN A COMMON RAIL SYSTEM

(51) International classification	:F02D0041380000, F02M0063020000, F02D0041220000, F02M0055020000, F02M0037100000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No. 3000, Hosur Road, Adugodi, Bangalore 560030, India. Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sudarshan Mysore Prasad Rao
(33) Name of priority country	:NA	2)Rajesh Nataraja
(86) International Application No	:NA	3)Pavan Rao Prahlada
Filing 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 The present disclosure proposes a system to count an opening of a pressure limiting valve (103) in a common rail system. The system comprising a common rail, a rail pressure sensor (102), a pressure limiting valve (103), a low pressure connector, an Electronic Control Unit (ECU (105)), a first piezo sensor connected to the ECU (105) and at least a second piezo sensor connected to the ECU (105). The first and second piezo sensors are placed across the walls of the low pressure return line connector (104) proximate to the pressure limiting valve (103).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039452 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD OF DETECTING A DEGREE OF FILTER CLOGGING IN AN INTERNAL COMBUSTION ENGINE

(51) International classification	:F02D0041380000, F01N0009000000, F02M0037220000, F02D0041140000, F02D0041220000	(71) Name of Applicant : 1)Bosch Limited Address of Applicant :Post Box No. 3000, Hosur Road, Adugodi, Bangalore 560030, India. Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Divya Krishna Ramakrishna
(33) Name of priority country	:NA	2)Karthik Gandiban
(86) International Application No	:NA	3)Rajaram Ramashesh Nannival
Filing Date	:NA	4)Sumalata Umesh Kamat
(87) 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 The present disclosure proposes a method (100) of detecting a degree of clogging in a fuel filter of an internal combustion engine. The Electronic Control Unit calculates (104) an instant time delay to reach a minimum rail pressure and compares (105) it with the measured value of battery voltage, received value of fuel temperature, calculated value of injection quantity and at least the calculated value of time delay required to reach a minimum rail pressure with pre-determined data points to arrive at a value of degree of clogging of fuel filter. The value of degree of filter clogging is indicated to the vehicle user. Figure 1.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039453 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A TANK FOR USE IN A SELECTIVE CATALYTIC REDUCTION SYSTEM

(51) International classification	:F01N0003200000, F01M0013040000, F16H0057027000, B60K0015035000, F17C0013060000	(71) Name of Applicant : 1)Robert Bosch Engineering and Business Solutions Private Limited Address of Applicant :123, Industrial Layout, Hosur Road, Koramangala, Bangalore 560095, India. Karnataka India 2)Robert Bosch GmbH
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Rajmohan Rajendran
(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 tank for use in a selective catalytic reduction system is disclosed. The tank 10 is for use in a selective catalytic reduction system. The tank 10 comprises at least a tank body 12 comprising a venting outlet 14 for venting gases out of the tank body 12, a breather device 16 fitted in the venting outlet 14. The breather device 16 comprises a flow path 18. The tank 10 is characterized such as to comprise a gas absorbing device 20 attached to the breather device 16 in a manner such that the flow path 18 of the breather device 16 releases gas vapours into the gas absorbing device 20 and a venting tube 22 extending from the gas absorbing device 20.
Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039472 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AYURVEDA BREW (KASHAYAM AND ARISHTAM) IN PROPYLENE GLYCOL

(51) International classification	:A61K0031737000, C12G0003020000, F25D0003080000, C07C0063040000, A47G0019160000	(71) Name of Applicant : 1)GIRIVAS VISWANATH SHET Address of Applicant :NO.6/1872 SASTHA NAGAR,ANAVATHIL,MATTANCHERRY,COCHIN-682 002 Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GIRIVAS VISWANATH SHET
(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 new method in this invention is in propylene glycol food grade for brew and arishtam without spoiling the properties of the herbs but it will be preserve the 100% benefits of the herbs and gives fast relief of the diseases.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039479 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SINGLE CYLINDER, NATURALLY ASPIRATED DIESEL ENGINE WITH SELECTIVE CATALYTIC REDUCTION (SCR).

(51) International classification	:F01N0003200000, F01N0013000000, F01N0003100000, F01N0003035000, F01N0003021000	(71) Name of Applicant : 1)MAHINDRA & MAHINDRA LIMITED Address of Applicant :MAHINDRA RESEARCH VALLEY, MAHINDRA WORLD CITY, P.O. ANJUR, CHENGALPATTU - 603 204, DISTT. KANCHEEPURAM, TAMIL NADU, INDIA. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)R. SIVA SUBRAMANIAN
(33) Name of priority country	:NA	2)SURYANARAYANA V.
(86) International Application No	:NA	3)AYYAPPAN R.
Filing Date	:NA	4)C. VASUDEVAN
(87) International Publication No	: NA	5)SRINIVASARAO GOLLA
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Title: SINGLE-CYLINDER, NATURALLY ASPIRATED DIESEL ENGINE WITH SELECTIVE CATALYTIC REDUCTION (SCR) Single-cylinder, naturally aspirated diesel engine (116), comprising: air intake pipe (114) connected to engine (116) inlet port and air-filter (112) disposed on air intake pipe (112); exhaust pipe (118) connected to engine (116) exhaust port and having first exhaust after treatment system (120) disposed thereon for removing hydrocarbons, carbon monoxide and particulate matters of exhaust gases; second exhaust after treatment system (122) disposed downstream first exhaust after treatment system for removing nitrogen oxides of exhaust gases and muffler (130) connected downstream thereof for releasing treated exhaust gases to achieve improved Brake Specific Fuel Consumption (BSFC) by using suitable fuel injector configuration; wherein the first exhaust after-treatment system reduces particulate emissions (PM) by more than 65%; the second exhaust after-treatment system has NOx conversion efficiency greater than 90% and thereby reducing the overall tail pipe emissions of diesel engine (116) by more than 65%. Figure 3b.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039485 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : ROUTE UPDATING USING A BFD PROTOCOL

(51) International classification	:H04B0010030000, H04W0040220000, H04L0012460000, H04W0040120000, H04L0012759000	(71) Name of Applicant : 1)Hewlett Packard Enterprise Development LP Address of Applicant :11445 Compaq Center Drive West, Houston, TX 77070, United States of America, U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Singh, Jagdev
(33) Name of priority country	:NA	2)Joshi, Abhisht
(86) International Application No	:NA	3)Raj, Anil
Filing Date	:NA	4)R, Sarvotham Prasad
(87) International Publication No	: NA	5)Kurtkoti, Kedar Laxman
(61) Patent of Addition to Application Number	:NA	6)Mruthyunjaya, Sinchana Kallesara
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Examples disclosed herein relate to a method comprising detecting, by a bidirectional forwarding detection (BFD) protocol, a link failure of a link associated with a network device on a network. The method may include notifying, by the BFD protocol, a routing protocol and a hardware plugin about the link failure and identifying, by the routing protocol, an updated route for the network that does not include the network device. The method may also include deleting, by the hardware plugin, any routes programmed into a forwarding information base (FIB) including the first network device upon receiving the notification from the BFD protocol and installing, by the hardware plugin, the updated route into the FIB to be used for forwarding network traffic on the network.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039487 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : CODE SCHEME, CONFIRMATION OF CODES WITH ONLINE SUPPORT BY CUSTOMER AND WEBSITE (FOR ORIGINALITY) OF PIECE OF PRODUCT BY A MANUFACTURER. OTHER SUPPORTS [LOTTERY, PRODUCT MODIFICATION, WARRANTY, GUARANTY, SERVICE SECTOR] BY CUSTOMER AND MANUFACTURER. CHANGING LICENSE KEY OF SOFTWARE PRODUCT.

(51) International classification	:G06Q0030060000, G06Q0030020000, G06Q0030080000, G06F0011000000, G06F0016958000	(71) Name of Applicant : 1)PALLIYAN VARGHESE NOBIN Address of Applicant :PALLIYAN HOUSE, KARUKUTTY P.O, KERALA, INDIA, PIN-683576. Kerala India
(31) Priority Document No	:NA	(72) Name of Inventor : 1)PALLIYAN VARGHESE NOBIN
(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 code scheme given to product by a manufacturer. Unique codes are given to each pieces of product according to code scheme. All codes entered to website designed by manufacturer as data. Codes given in code tag of piece of product matched by customer with website given data. If matching result got by customer, then piece of product is original. Also website matches codes given by customer with data in website. If mismatching result got by website, then duplicate product exists in market. Website collects identification of device of customer [using online technology] and customer information. Lottery can be given by manufacturer based on website data. Lottery can be given by seller [shop] by giving additional code tag and setting website for him. Warranty, guaranty etc. can be given by manufacturer easily with clarity and accuracy. Error report analysis by manufacture of a product from website data, gives way to modification of product. Customer can understand advice of manufacturer about a reported error of the piece of product. Service charge range for correcting an error of a piece of product can be taken from manufacturer. License key can be changed for software over a period of time [till expiry] using online support of software company.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039517 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A Method And System For Battery Management Of An Electronic Device

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742 (KR) Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SRINIVASAN, Sundar
(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 method for battery management of an electronic device is disclosed. The method includes receiving an input target time, wherein the target time is indicative of desired lasting time of the battery. The method includes estimating an application usage time for each one of the applications from among the plurality of applications from the received target time. Further, the method includes sending an alert message to a user wherein the alert message is indicative of the usage time of one or more application till the target time. Further, the method includes optimizing a device operation in respect of the target time based upon at least one of estimated application usage time and a user input in response to the alert message.

No. of Pages : 42 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039524 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : WINOGRAD CONVOLUTION SUPPORT ON A Z-FIRST CNN ACCELERATOR ARCHITECTURE

(51) International classification :A23K0020147000,
C12P0019040000,
B82Y0030000000,
C22B0003000000,
C08L0097020000

(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)Samsung Electronics Co., Ltd.
Address of Applicant :129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do Republic of Korea

(72)**Name of Inventor :**
1)MAHALE, Gopinath Vasanth
2)UDUPA, Pramod Parameshwara
3)CHANDRASEKHARAN, Kiran Kolar
4)SEHWAN, Lee

(57) Abstract :

The present disclosure describes a z-first reference neural processing unit (NPU) for mapping Winograd Convolution. The NPU comprises a plurality of memory banks configured to store a plurality of input feature maps (IFMs) in a z-first data storage layout. Each of the plurality of memory banks is configured to store the plurality of IFMs in one of a direct convolution (DConv) mode and a Winograd convolution (WgConv) mode; a reconfigurable IFM distributor to receive the plurality of IFMs from the plurality of memory banks; a parallel reconfigurable Winograd forward transform module to receive the plurality of IFMs from the reconfigurable IFM distributor to transform the plurality of IFMs in a Winograd domain to obtain a plurality of transformed IFMs; a plurality of multiply and accumulate (MAC) units to perform dot product operations on one of (a) the plurality of IFMs in the DConv mode and (b) the plurality of transformed IFMs in the WgConv mode to obtain a plurality of intermediate output feature maps (OFMs); and a reconfigurable OFM adder and Winograd inverse transform module to generate one of (a) an OFM from the plurality of intermediate OFMs in the DConv mode and (b) a plurality of OFMs from the plurality of intermediate OFMs in the WgConv mode.

No. of Pages : 48 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039536 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A HOUSEHOLD APPLIANCE WITH MULTIPLE BEADS

(51) International classification	:D06F005820000, D06F003902000, D06F005828000, D06F003914000, D06F005822000	(71) Name of Applicant : 1)BSH Household Appliances Manufacturing Private Limited Address of Applicant :At Arena House, 2nd Floor Main Building, Plot No 103, Road No. 12, MIDC, Andheri East 400093 Mumbai Maharashtra India
(31) Priority Document No	:NA	2)BSH Hausgeraete GmbH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Naresh Ramachandran
(86) International Application No	:NA	2)Mohan Vijayalaya Pandian
Filing Date	:NA	3)Kamaljeet Kaur
(87) International Publication No	: NA	4)Maria Antony Cruz Manickaraj
(61) Patent of Addition to Application Number:	:NA	5)Mohd Wardi Iswali Aihsan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract: A household appliance with multiple beads The household appliance 10 comprises a housing 11 and a drum 12 positioned in the housing 11. The drum 12 has an opening 14 to receive laundry. The appliance 10 further comprises multiple beads 16 fitted on an inner surface 18 of the drum 12, characterized in, the household appliance 10, the multiple beads 16 have different dimensions positioned in a predefined pattern on the inner surface 18 of the drum 12. The multiple beads 16 adapted to scrub dirt from the laundry during at least one operating event of the household appliance 10. With the multiple beads 16 fitted inside the drum 12, the roll over function of the laundry is improved. In addition, the quality of washing procedure is improved, as the encounter of the laundry with the multiple beads 16 resembles the conventional hand scrubbing technique.

No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : A HOUSEHOLD APPLIANCE WITH MULTIPLE FLEXIBLE FLAPS

(51) International classification	:D06F0058200000, D06F0058280000, H04L0012280000, D06F0058080000, A61F0013476000	(71) Name of Applicant : 1)BSH Household Appliances Manufacturing Private Limited Address of Applicant :Arena House, 2nd Floor Main Building, Plot No 103, Road No. 12, MIDC, Andheri East 400093 Mumbai Maharashtra India
(31) Priority Document No	:NA	2)BSH Hausgeraete GmbH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Mohd Wardi Iswali Aihsan
(86) International Application No	:NA	2)Naresh Ramachandran
Filing Date	:NA	3)Mohan Vijayalaya Pandian
(87) International Publication No	: NA	4)Karan Purohit
(61) Patent of Addition to Application Number:	:NA	5)Satheeshkumar Ramasamy
Filing Date	:NA	6)Andreas Otto
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract A household appliance with multiple flexible flaps The household appliance 10 comprises a drum 12 adapted to receive laundry. The appliance 10 comprises an impeller 14 positioned at a bottom portion of the drum 12. The appliance 10 comprises multiple flexible flaps 16 fitted to an inner surface 18 of the drum 12 in a predefined pattern. The multiple flexible flaps 16 adapted to remove dirt from the laundry during at least one operating event of the household appliance 10. With the multiple flexible flaps 16, a constant movement of the laundry in the drum 12 is achieved. The flexible flaps 16 facilitates a better dirt removal of the laundry during different operational events of the household appliance 10 due to the wave profile that provides a hand mimicking action on the items of the laundry . The usage of the flexible flaps 16 helps in detangling the laundry during the rollover moment in the drum 12.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039538 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A HOUSEHOLD APPLIANCE

(51) International classification	:D06F0058200000, D06F0058280000, D06F0035000000, D06F0058040000, B01D0045140000	(71) Name of Applicant : 1)BSH Household Appliances Manufacturing Private Limited Address of Applicant :Arena House, 2nd Floor Main Building, Plot No 103, Road No. 12, MIDC, Andheri East 400093 Mumbai, India Maharashtra India
(31) Priority Document No	:NA	2)BSH Hausgeraete GmbH
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Mohd Wardi Iswali Aihsan
(86) International Application No	:NA	2)Naresh Ramachandran
Filing Date	:NA	3)Mohan Vijayalaya Pandian
(87) International Publication No	: NA	4)Bharath Raam Dhinakaran
(61) Patent of Addition to Application Number:	:NA	5)Andreas Otto
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract A household appliance The household appliance comprises a drum adapted to receive laundry and an impeller positioned at a bottom portion of the drum. The appliance comprises multiple vanes fixed on the impeller. Characterized in that, the appliance comprises multiple cut-sections made on the impeller. The appliance further comprises at least one member movably fitted in each of the multiple cut-sections, such that, the at least one member is adapted to rollover the laundry in the drum during an operating mode of the household appliance. The members disclosed above provides soft pounding effects on the laundry there by removing the stains effectively. When there is continuous pounding in the items of the laundry along the vertical direction results in a water wobbling effects, which creates better cloth rollover and enhances scrubbing effect over the laundry and efficient dirt/stain removal.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039541 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING PERSONALIZED DRIVING OR NAVIGATION ASSISTANCE

(51) International classification	:G06N0020000000, H04L0029080000, G06K0009620000, G06K0009000000, B60W0050140000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GOPICHAND AGNIHOTRAM
(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 :

This disclosure relates to method and system for providing personalized driving or navigation assistance. The method may include receiving sensory data with respect to a vehicle from a plurality of sensors and multi-channel input data with respect to one or more passengers inside the vehicle from a plurality of onboard monitoring devices, performing fusion of the sensory data and the multi-channel input data to generate multi-modal fusion data, determining one or more contextual events based on the multi-modal fusion data using a machine learning model, wherein the machine learning model is trained using an incremental learning process and comprises a supervised machine learning model and an unsupervised machine learning model, analysing the one or more contextual events to generate a personalized driving recommendation, and providing the personalized driving recommendation to a driver passenger or a navigation device. Fig. 4

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039545 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD TO HANDLE MOBILITY PROCEDURE FOR A UE IN STANDALONE NON-PUBLIC NETWORK

(51) International classification	:H04W0036000000, G06F0011140000, H04W0008080000, H01L0029786000, H04L0005000000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :Samsung Electronics Co., Ltd. Korean Republic of Korea House No.129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi- do, Republic of Korea Pin code 443-742
(31) Priority Document No	:NA	Republic of Korea
(32) Priority Date	:NA	(72) Name of Inventor :
(33) Name of priority country	:NA	1)Kundan Tiwari
(86) International Application No	:NA	2)Lalith Kumar
Filing Date	:NA	3)Narendranath Durga Tangud
(87) International Publication No	: NA	4)Anikethan Ramakrishna Vijaya Kumar
(61) Patent of Addition to Application Number	:NA	5)Rajavelsamy Rajadurai
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Method and UE for handling mobility procedure for UE • Embodiments herein disclose a method for handling mobility procedure for user equipment (UE) (100). The method includes determining, by the UE (100), a selection of a second standalone non-public networks (SNPN) due to mobility of the UE (100) or the user selection of the second SNPN (e.g. as a result of manual SNPN selection procedure). The UE (100) is registered with a first SNPN. Further, the method includes resetting, by the UE (100), a registration attempt counter on selection of the second SNPN; and initiating, by the UE (100), the registration procedure by performing an initial registration to the second SNPN. FIG. 3B

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039548 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN APPARATUS FOR STIMULATING PHYSICAL AND MENTAL RELAXATION

(51) International classification	:A61G0013120000, A61M0021000000, A61M0016060000, A61B0046230000, F16F0009120000	(71) Name of Applicant : 1)BMS College Of Engineering Address of Applicant :1908 Bull temple Road, Bangalore- 560019, Karnataka,India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RAGHU
(33) Name of priority country	:NA	2)VIGENSHA
(86) International Application No	:NA	3)VENU S
Filing Date	:NA	4)MADHU
(87) 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 apparatus for stimulating physical and mental relaxation is disclosed. The apparatus includes a housing, wherein the housing includes a headrest mounted at a first surface to provide a surface for adapting forehead of a patient in a predetermined supine position; a reservoir placed in the housing, wherein the reservoir includes a first chamber which includes a heating element to heat water stored in the first chamber, a second chamber which includes a therapeutic viscous fluid, wherein the therapeutic viscous fluid is heated based on a conduction effect; a therapeutic viscous fluid circulation unit which includes a fluid supplying conduit to supply heated therapeutic viscous fluid to drop thereon the forehead of the patient rested on the headrest for physical stimulation and mental relaxation, a fluid draining conduit to drain dropped heated therapeutic viscous fluid thereon the forehead of the patient to the second chamber. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039570 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : AN AUTOMATED GUIDED TRANSIT SYSTEM

(51) International classification	:G06Q0010060000, G05D0001020000, G06Q0020320000, E01B0025100000, G06Q0020040000	(71) Name of Applicant : 1)Primerail Infralabs Pvt Ltd. Address of Applicant :Flat No. 201, Sri Sai Residency, Bhuvneshwari Nagar, CV Raman Nagar, Bangalore-560093 Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SALLA, Suresh Babu
(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 automated transit system (100) comprises ROVE (1000) with a plurality of ground-engaging wheels and guiding units disposed at a bottom and top portion of ROVE and drivably coupled to ground engaging members, wherein each of the guiding units comprises a plurality of guiding wheels adapted to guide the movement of ROVE. Further, the system comprises a switching units comprising a plurality of switching wheels adapted to switch a direction of movement ROVE in one of a left direction and a right direction with respect to the movement of the ROVE. The system may comprise an elevated guiding structure comprising a truss, a plurality of main guides supported on an upper portion of the truss, adapted to be engaged with guiding wheels to guide the movement of rove, and a plurality of switching guides adapted to be engaged with the plurality of switching wheels of ROVE. << To be published with Figure 8>>

No. of Pages : 78 No. of Claims : 19

(54) Title of the invention : POWER SPLITTING SYSTEM

(51) International classification	:H05B0037020000, G02B0006120000, G02B0006270000, H03F0003193000, F21V0023000000	(71) Name of Applicant : 1)SIGNIFY HOLDING B.V. Address of Applicant :High Tech Campus 48, NL-5656 AE Eindhoven Netherlands
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)JAIN, Amit Kumar
(33) Name of priority country	:NA	2)SHARMA, Vardan
(86) International Application No	:NA	3)SEM WAL, Himanshu
Filing 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 for splitting power to a plurality of luminaires, comprising: at least a first luminaire and a last luminaire of the plurality of luminaires; wherein the first luminaire comprises a first light source, a first luminaire input and a first luminaire return path; and wherein the last luminaire comprises a last light source, a last luminaire input and a last luminaire return path; a splitting device comprising: an input for receiving source current from an external current source; a first port arranged for connecting to the first luminaire input and to the first luminaire return path; and a last port arranged for connecting to the last luminaire input and to the last luminaire return path; wherein the last port is further arranged for connecting to a return path of the external current source; wherein the first port is arranged for delivering luminaire current to the first luminaire input and for receiving the luminaire current from the first luminaire return path; wherein the luminaire current being at least a part of the source current; and wherein the last port is arranged for receiving the luminaire current from the first port, and for delivering the received luminaire current to the last luminaire input; wherein the last port is further arranged for receiving the luminaire current from the last luminaire return path; wherein the first and the last luminaire are arranged for directly providing the luminaire current to the first and the last light source respectively. Fig. 1



No. of Pages : 29 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039583 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMICALLY ADJUSTING A TRAJECTORY OF AN AUTONOMOUS VEHICLE DURING REAL-TIME NAVIGATION

(51) International classification	:G05D0001020000, G08G0001010000, G05D0001000000, G06K0009000000, E21B0007040000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Balaji Sunil Kumar
(33) Name of priority country	:NA	2)Manas Sarkar
(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 :

This disclosure relates to method and system for dynamically modifying navigation trajectory of an autonomous ground vehicle (AGV). The method may include receiving an image of a visible road region ahead of the AGV, projecting planned trajectory waypoints on the image, and segmenting the visible road region in the image into equidistant segments along a road length. For each of the equidistant segments, the method may further include determining alternate trajectory waypoints and a suggested velocity for a given segment based on the image of the given segment, a set of the planned trajectory waypoints in the given segment, an adjusted trajectory waypoint in a previous segment, and a determined velocity in the previous segment using an artificial intelligence model. Additionally, for each of the equidistant segments, the method may include determining an adjusted trajectory waypoint based on the alternate trajectory waypoints and the suggested velocity for the given segment. To be published with Figure 2



No. of Pages : 47 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039587 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR ADAPTIVE NAVIGATION OF AUTONOMOUS VEHICLES

(51) International classification	:G05D0001020000, G05D0001000000, G01C0021360000, G08G0005000000, G01C0021340000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MANAS SARKAR
(33) Name of priority country	:NA	2)BALAJI SUNIL 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 :

Embodiments of the present disclosure relate to a method and an autonomous navigation system for adaptively navigating an Autonomous Vehicle (AV). The autonomous navigation system obtains a global path comprising a plurality of global waypoints. The global path is generated from a source location to a destination location for the AV to navigate along the global path. A location of the AV is determined where an orientation of the AV deviates from an orientation of the global path. One or more global waypoints are identified, and a global waypoint is selected as reference. Further, proximal to the selected global waypoint, a first set of local waypoints are generated, and a first set of paths are generated from the AV to the first set of local waypoints. A local path is selected based on a cost factor for the AV to navigate along the selected local path. Figure 1



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

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING A TEXT SUMMARY FOR MULTIMEDIA CONTENT

(51) International classification	:G06T0005000000, G06K0009000000, G06T0005500000, H04N0019137000, G06K0009460000	(71) Name of Applicant : 1)WIPRO LIMITED Address of Applicant :Doddakannelli, Sarjapur Road, Bangalore 560035, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VINUTHA B NARAYANMURTHY
(33) Name of priority country	:NA	2)SIBSAMBHU KAR
(86) International Application No	:NA	3)MANJUNATH RAMACHANDRA IYER
Filing 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 relate to effectively determining spatial and temporal features for extracting low-level and high-level features from image frames of multimedia content. A plurality of image frames are received from an imaging unit. Spatial filters are applied on each image frame to generate a first set of activation maps which provide spatial features in the image frames. Further, a temporal filter is applied on the plurality of image frames at a plurality of levels to generate one or more second set of activation maps corresponding to each level for determining temporal features in the image frames. Thereafter, the spatial feature from each image and temporal feature of the plurality of image frames from each level is extracted, which represent low-level and high-level spatial and temporal features. Fig. 3

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039601 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : SEAMLESS SERVICE CONTINUITY FOR EDGE COMPUTING

(51) International classification	:H04L0029080000, H04W0036000000, H04H0020260000, H04L0029060000, G06F0009500000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi- do 443-742 Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Nishant Gupta
(33) Name of priority country	:NA	2)Lalith Kumar
(86) International Application No	:NA	3)Basavaraj Jayawant Pattan
Filing 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 seamless service continuity for Edge Computing • Accordingly, embodiments herein disclose a method for seamless service continuity. The method includes: receiving, by a user equipment (UE) (102), the service from one of a first edge application server (EAS) (110a) in an edge data network (108), and a cloud application server (AS) (118) in a cloud data network (116);determining that a current location of the UE (102) is served by both a second EAS (110b), and one of the first EAS (110a) and the cloud AS (118); transferring an application context related to the service to the second EAS (110b) based on the determination that the current location of the UE (102) is served by both the second EAS (110b), and one of the first EAS (110a) and the cloud EAS (118);establishing a connection of the UE (102) with both the second EAS (110b) and a second EES (112b); and continuing the service using the established connection. FIG. 14

No. of Pages : 89 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941039658 A

(19) INDIA

(22) Date of filing of Application :30/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A METHOD FOR DIGITALLY MANUFACTURING A WEIGHT BEARING THREE-DIMENSIONAL STRUCTURE OF AN ASSISTIVE DEVICE

(51) International classification	:B33Y0050000000, B33Y0030000000, A61C0013000000, G06T0017000000, G06T0015040000	(71) Name of Applicant : 1)Mobility India Address of Applicant :1st & 1st A Cross, JP Nagar phase 2, Bengaluru, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Soikat Ghosh Moulic
(33) Name of priority country	:NA	2)Mr. Girish Murthy
(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 digitally manufacturing a weight-bearing three-dimensional structure of an assistive device [0028] The present invention relates to a method for digitally manufacturing a weight-bearing three-dimensional structure of an assistive device by employing a customized three-dimensional printer (105). The method comprises the steps of accumulating the details and enumerating the physical parameters of the specific anatomical structure from one or more patients by a scanning module (101) and a grid sheet (102). The data extracted from the scanning module (101) and the grid sheet (102) is transmitted to a digital transformation tool (104), wherein the data extracted from the scanning module (101) is modified to form a three-dimensional model. The three-dimensional model formed is validated by mapping its dimensions with the data extracted from the grid sheet (102) and scanning module (101). The three-dimensional structure of the validated three-dimensional model is printed through the three-dimensional printer (105). (Figure 1)



No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201943039232 A

(19) INDIA

(22) Date of filing of Application :27/09/2019

(43) Publication Date : 02/04/2021

(54) Title of the invention : A MANIFOLD SYSTEM FOR FLUID DELIVERY

(51) International classification	:F24D0019100000, H05K0007200000, E21B0043260000, F15B0020000000, G06G0007164000	(71) Name of Applicant : 1)ASCO NUMATICS (INDIA) PVT.LTD. Address of Applicant :57, KUNDRATHUR MAIN ROAD, GERUGAMBAKKAM, PORUR CHENNAI-602 101 Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)RUDRAPATNA JANARDANA, Lakshmikantha
(33) Name of priority country	:NA	2)ASHOKKUMAR, Senthil
(86) International Application No	:NA	3)SACHIDANANDAM, Soundharrajan
Filing Date	:NA	4)PUNTAMBEKAR, Nilesh
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:		
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A MANIFOLD SYSTEM FOR FLUID DELIVERY The present disclosure relates to the field of fluid process systems and discloses a manifold system (300) for fluid delivery. The system (300) comprises a first set of Solenoid Valves (SOVs) [(V1-V2),(V1-V3)], a second set of SOVs [(V4-V5),(V4-V6)], a plurality of isolating valves [(I1-I2, I4-I5),(I1-I6)], at least one first shuttle valve [(S1),(S4-S6)], and at least one redundant shuttle valve [(S3),(S4TM-S6TM)]. Each set of SOV [(V1-V2),(V1-V3),(V4-V5),(V4-V6)] includes at least two SOVs [(V1-V2),(V1-V3),(V4-V5),(V4-V6)] arranged in parallel. The SOVs [(V1-V2),(V1-V3),(V4-V5),(V4-V6)] together form a series-parallel redundancy. Each isolating valve [(I1-I2, I4-I5),(I1-I6)] is coupled to an SOV [(V1-V2, V4-V5),(V1-V6)] and facilitates hot swapping of that SOV [(V1-V2, V4-V5),(V1-V6)]. The redundant shuttle valves [(S3),(S4TM-S6TM)] provide redundancy to the first shuttle valve [(S1), (S4-S6)] and facilitate the flow of a fluid from each of the first set of SOVs [(V1-V2),(V1-V3)] to each of the second set of SOVs [(V4-V5),(V4-V6)], thereby improving system safety and availability.

No. of Pages : 30 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044000076 A

(19) INDIA

(22) Date of filing of Application :01/01/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : COATING LAYER REMOVAL APPARATUS AND TAILOR WELDED HOT PRESS-FORMING METHOD USING THE SAME

(51) International classification	:H01L0021670000, B23K0026080000, C23C0028000000, B05C0001080000, B23K0026060000	(71) Name of Applicant : 1)AUTOGEN CO.,LTD Address of Applicant :(Jeongwang-dong)180, Okgucheondong-ro, Siheung-si, Gyeonggi-do 15089, Republic of Korea. Republic of Korea
(31) Priority Document No	:KR10-2019- 0119596	(72) Name of Inventor : 1)LIM, Ok Dong
(32) Priority Date	:27/09/2019	2)KANG, Nam Su
(33) Name of priority country	:Republic of Korea	3)KONG, Yong Sik
(86) International Application No	:NA	4)KIM, Ji Hyeong
Filing 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 :

Disclosed is a coating layer removal apparatus which removes a coating layer formed on a steel sheet. The apparatus includes a guide portion configured to form a certain transfer space in which the steel sheet is transferred, a polishing portion disposed in the transfer space and configured to remove the coating layer by pressing the steel sheet, and a spacing portion configured to space the steel sheet apart from the guide portion so as to restrict the steel sheet being transferred in the transfer space from rubbing against the guide portion and getting scratched.

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044026065 A

(19) INDIA

(22) Date of filing of Application :20/06/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : APPARATUSES, METHODS, AND SYSTEMS FOR INSTRUCTIONS OF A MATRIX OPERATIONSACCELERATOR

(51) International classification	:G06F0009300000, G06F0007544000, G06N0003063000, G09G0003340000, H04N0019426000	(71) Name of Applicant : 1)INTEL CORPORATION Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/586,114	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)Alexander HEINECKE
(33) Name of priority country	:U.S.A.	2)Kamlesh R. PILLAI
(86) International Application No	:NA	3)Christopher J. HUGHES
Filing 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 APPARATUSES, METHODS, AND SYSTEMS FOR INSTRUCTIONS OF A MATRIX OPERATIONS ACCELERATOR Systems, methods, and apparatuses relating to a matrix operations accelerator are described. In one embodiment, a processor includes a matrix operations accelerator circuit that includes a two-dimensional grid of fused multiply accumulate circuits that is switchable from a first mode where a respective output of each of a first proper subset of fused multiply accumulate circuits of the two-dimensional grid is transmitted downstream to a respective input of each of a second proper subset of fused multiply accumulate circuits of the two-dimensional grid to form output values from at least one first input two-dimensional matrix and at least one second input two-dimensional matrix, and store the output values in resultant storage, to a second mode where the respective output of each of the first proper subset of fused multiply accumulate circuits of the two-dimensional grid form first output values from a first subset of the at least one first input two-dimensional matrix and the at least one second input two-dimensional matrix, and store the first output values in the resultant storage, and a respective output of each of the second proper subset of fused multiply accumulate circuits of the two-dimensional grid form second output values from a second subset of the at least one first input two-dimensional matrix and the at least one second input two-dimensional matrix, and store the second output values in the resultant storage.

No. of Pages : 141 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044026215 A

(19) INDIA

(22) Date of filing of Application :22/06/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHODS OF HARDWARE AND SOFTWARE-COORDINATED OPT-IN TO ADVANCED FEATURES ON HETERO ISA PLATFORMS

(51) International classification	:G06F0009300000, G06F0009380000, G06F0009500000, B65G0047840000, G06F0009540000	(71) Name of Applicant : 1)INTEL CORPORATION Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/586,706	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)Toby OPFERMAN
(33) Name of priority country	:U.S.A.	2)Israel HIRSH
(86) International Application No	:NA	3)Eliezer WEISSMANN
Filing Date	:NA	4)Robert VALENTINE
(87) International Publication No	: NA	5)Russell Cameron ARNOLD
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHODS OF HARDWARE AND SOFTWARE-COORDINATED OPT-IN TO ADVANCED FEATURES ON HETERO ISA PLATFORMS The present disclosure relates to a processor that includes one or more processing elements associated with one or more instruction set architectures. The processor is configured to receive a request from an application executed by a first processing element of the one or more processing elements to enable a feature associated with an instruction set architecture. Additionally, the processor is configured to enable the application to utilize the feature without a system call occurring when the feature is associated with an instruction set architecture associated with the first processing element.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044026454 A

(19) INDIA

(22) Date of filing of Application :23/06/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PACKAGED DEVICE WITH A CHIPLET COMPRISING MEMORY RESOURCES

(51) International classification	:H01L0027320000, H01L0023000000, H01L0025065000, H01L0023310000, H01L0023580000	(71) Name of Applicant : 1)INTEL CORPORATION Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/586,167	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)ADEL ELSHERBINI
(33) Name of priority country	:U.S.A.	2)VAN LE
(86) International Application No	:NA	3)JOHANNA SWAN
Filing Date	:NA	4)SHAWNA LIFF
(87) International Publication No	: NA	5)PATRICK MORROW
(61) Patent of Addition to Application Number	:NA	6)GERALD PASDAST
Filing Date	:NA	7)MIN HUANG

(57) Abstract :

Techniques and mechanisms for providing at a packaged device an integrated circuit (IC) chip and a chiplet, wherein memory resources of the chiplet are accessible by a processor core of the IC chip. In an embodiment, a hardware interface of the packaged device includes first conductive contacts at a side of the chiplet, wherein second conductive contacts of the hardware interface are electrically interconnected to the IC chip each via a respective path which is independent of the chiplet. In another embodiment, one or more of the first conductive contacts are configured to deliver power, or communicate a signal, to a device layer of one of the IC chip or the chiplet.

No. of Pages : 53 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044026559 A

(19) INDIA

(22) Date of filing of Application :23/06/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : MIXED HYBRID BONDING STRUCTURES AND METHODS OF FORMING THE SAME

(51) International classification	:H01L0023000000, H01L0023498000, H01L0023532000, H01L0025000000, H01L0021768000	(71) Name of Applicant : 1)INTEL CORPORATION Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:16/584,522	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)Shawna Liff
(33) Name of priority country	:U.S.A.	2)Adel Elsherbini
(86) International Application No	:NA	3)Johanna Swan
Filing Date	:NA	4)Nagatoshi Tsunoda
(87) International Publication No	: NA	5)Jimin Yao
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MIXED HYBRID BONDING STRUCTURES AND METHODS OF FORMING THE SAME [0077] Embodiments include a mixed hybrid bonding structure comprising a composite dielectric layer, where the composite dielectric layer comprises an organic dielectric material having a plurality of inorganic filler material. One or more conductive substrate interconnect structures are within the composite dielectric layer. A die is on the composite dielectric layer, the die having one or more conductive die interconnect structures within a die dielectric material. The one or more conductive die interconnect structures are directly bonded to the one or more conductive substrate interconnect structures, and the inorganic filler material of the composite dielectric layer is bonded to the die dielectric material.

No. of Pages : 57 No. of Claims : 21

(54) Title of the invention : A WIND TURBINE AND METHOD OF GENERATING POWER FROM THEWIND

(51) International classification	:F03D0007020000, F03D0001060000, F03D0013200000, F03D0007060000, F03D0007040000	(71) Name of Applicant : 1)OGAB LTD Address of Applicant :Suite 3, Stanta Business Centre, 3 Soothouse Spring, St Albans, AL3 6PF, United Kingdom U.K.
(31) Priority Document No	:GB19139856	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)OSAMA ELOGAB
(33) Name of priority country	:U.K.	2)ZACHARY ELOGAB
(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: The blades of conventional wind turbines almost always have adjustable pitch; that is, they can be pivoted about their length in order to change the angle of attack of the blades to the wind. This is necessary, because the effective angle of attack varies with both wind speed and rotational speed. In particular, in extremely high wind speeds, the blades can be 'feathered' to reduce the amount of torque being imparted to the turbine. The present invention provides a wind turbine in which pressurised air may be conveyed to air outlets 21 on the blades 1. In this way, the aerodynamic behaviour of the blade 1 may be controlled, effectively feathering the blade without needing a robust mechanical system for pivoting the blade. Figure 1 is the representative figure.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044034783 A

(19) INDIA

(22) Date of filing of Application :13/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME •

(51) International classification	:H01L0029780000, H01L0023000000, H01L0029660000, H01L0023532000, H01L0023290000	(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 Republic of Korea
(31) Priority Document No	:10-2019-0119542	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)Lee, Sang Ho
(33) Name of priority country	:Republic of Korea	2)Kim, Eun A
(86) International Application No	:NA	3)Lee, Ki Seok
Filing Date	:NA	4)Choi, Jay-Bok
(87) International Publication No	: NA	5)Kim, Keun Nam
(61) Patent of Addition to Application Number	:NA	6)Ahn, Yong Seok
Filing Date	:NA	7)Chun, Jin-Hwan
(62) Divisional to Application Number	:NA	8)Han, Sang Yeon
Filing Date	:NA	9)Han, Sung Hee
		10)Han, Seung Uk
		11)Hwang, Yoo Sang

(57) Abstract :

PLEASE SEE THE ATTACHED SPECIFICATION

No. of Pages : 118 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044034823 A

(19) INDIA

(22) Date of filing of Application :13/08/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : CUTTING TOOL

(51) International classification	:B23B0051020000, B23C0005100000, B24B0003260000, C23C0016458000, B23C0005220000	(71) Name of Applicant : 1)KENNAMETAL INC. Address of Applicant :1600 Technology Way, Latrobe, PA 15650-0231, United States of America. U.S.A.
(31) Priority Document No	:102019126051.5	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)Herbert Kauper
(33) Name of priority country	:Germany	2)Jürgen Schwägerl
(86) International Application No	:NA	3)Christian Strauchmann
Filing 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 :

Cutting tool (10) for the rotary machining of workpieces, in particular a twist drill, with a cutting tip (12) which has at least one main cutting edge (14) and at least one free surface (24), wherein a flank face (26) adjoins the main cutting edge (14) radially to the outside, and wherein a flank angle of the flank face (26) increases in a radially outward direction. Fig.1

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044039406 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : RANGE EXTENDER DEVICE

(51) International classification	:B60L0050610000, B60L0050620000, H04M0001020000, H04W0016260000, B60K0006460000	(71) Name of Applicant : 1)GOOGLE LLC Address of Applicant :1600 Amphitheatre Parkway, Mountain View, California 94043, United States of America U.S.A.
(31) Priority Document No	:PCT/US2019/053225	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)TANG, Vivian W.
(33) Name of priority country	:U.S.A.	2)WANG, Li Ya
(86) International Application No	:NA	3)CHEN, Yu-Ming
Filing Date	:NA	4)HEMMADY, Mihika
(87) International Publication No	: NA	5)LIN, DuanYing
(61) Patent of Addition to Application Number	:NA	6)LEE, Yau-Shing
Filing Date	:NA	7)HECKMANN, Frdric
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

As attached in PDF documents

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044039408 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : ACCESS POINT DEVICE

(51) International classification	:H04W0088080000, H04W0084120000, H04W0012000000, H04W0048200000, H04W0064000000	(71) Name of Applicant : 1)GOOGLE LLC Address of Applicant :1600 Amphitheatre Parkway, Mountain View, California 94043, United States of America, U.S.A.
(31) Priority Document No	:PCT/US2019/053162	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)LEE, Yau-Shing
(33) Name of priority country	:U.S.A.	2)ESPARZA, Rolando Willcox
(86) International Application No	:NA	3)LIU, George
Filing Date	:NA	4)WONG, Wing Tung
(87) International Publication No	: NA	5)HECKMANN, Frdric
(61) Patent of Addition to Application Number	:NA	6)TANG, Vivian W.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Please see attached specification

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044040338 A

(19) INDIA

(22) Date of filing of Application :17/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : INITIATING COMMUNICATION BETWEEN FIRST AND SECOND USERS

(51) International classification	:G06F0003010000, G06K0009000000, H04M0003420000, G02B0027000000, G06F0003048400	(71) Name of Applicant : 1)Nokia Technologies Oy Address of Applicant :Karakaari 7, 02610 Espoo, Finland Finland
(31) Priority Document No	:19199874.9	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)Christopher WRIGHT
(33) Name of priority country	:EPO	2)Matthew LAWRENSON
(86) International Application No	:NA	3)David DUFFY
Filing 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 INITIATING COMMUNICATION BETWEEN FIRST AND SECOND USERS According to various, but not necessarily all, embodiments there is provided an apparatus comprising means for: rendering first content to a first user, the first content being based on recorded content associated with a second user; eye tracking in a time interval following the rendering of the first content to obtain eye-tracking data of the first user; determining first data indicative of whether or not there is a match between the eye-tracking data of the first user and reference eye-tracking data associated with the recorded content associated with the second user; receiving second data indicative of whether or not there is a match between eye-tracking data of the second user and reference eye-tracking data associated with recorded content associated with the first user; and if both the first and second data are indicative of a match, then providing the first user with a telecommunication option configured to initiate communication with the second user.
Figure 2A

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044040541 A

(19) INDIA

(22) Date of filing of Application :18/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND APPARATUS FOR COMPROMISED IOT DEVICE DETECTION

(51) International classification	:H04L0029080000, H04L0029060000, H05B0047105000, H04W0028060000, H04N0005232000	(71) Name of Applicant : 1)Nokia Technologies Oy Address of Applicant :Karakaari 7, 02610 Espoo, Finland Finland
(31) Priority Document No	:19199813.7	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)David DUFFY
(33) Name of priority country	:EPO	2)Matthew LAWRENSON
(86) International Application No	:NA	3)Harm CRONIE
Filing 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 APPARATUS FOR COMPROMISED IOT DEVICE DETECTION A method and apparatus for determining one or more first devices that are Internet devices meeting all of the following conditions: residing at a given location; equipped with one or more ambience sensing capable sensors; and operation mode being such that their ambience sensing capable sensors should not cause transmission of data. One or more second devices are determined that are Internet devices at the given location and equipped with one or more elements capable of causing an ambient stimulation detectable by the sensors of one or more first devices. Data transmissions of the first devices are monitored. Issuing of the ambient stimulation is caused by a subset of the one or more second devices. It is determined whether the issuing of the ambient stimulation caused a significant change in the monitored data transmissions of the first devices. Fig. 1

No. of Pages : 26 No. of Claims : 15

(54) Title of the invention : ELECTRIC MOTOR COOLING STRUCTURE

(51) International classification	:H02K0009190000, B60K0001000000, F16H0057040000, H02K0001320000, H02K0001200000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan Japan
(31) Priority Document No	:2019-180229	(72) Name of Inventor :
(32) Priority Date	:30/09/2019	1)SUGIURA, Hiroyuki
(33) Name of priority country	:Japan	2)KITAWAKI, Shunsuke
(86) International Application No	:NA	3)OMORI, Kohei
Filing 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 an electric motor cooling structure that can efficiently cool an electric motor by spraying oil on the whole circumference of the electric motor by simple structure. The electric motor cooling structure for cooling an electric motor (M) mounted in a power unit (P) includes a plurality of spray holes (70) that spray oil radially outward from the axial center of rotation (CO) of the electric motor (M). A plurality of oil passages (71, 72) in communication with the spray holes (70) are disposed radially from the center of the electric motor (M) toward the radially outside. The oil passages (71, 72) are formed in a cover member (40) that covers the outside of the electric motor (M). The oil passages (71, 72) are extended toward the radially outside in communication with an oil sump (48a) inside a mounting boss (60) on which a stator (50) is mounted. The oil passages (71, 72) include first oil passages (71) and second oil passages (72). The first oil passages (71) and the second oil passages (72) are coaxially in communication with each other. The first oil passages (71) are smaller in diameter than the second oil passages (72). [Figure 8]

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041086 A

(19) INDIA

(22) Date of filing of Application :22/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : WELDING PROCESS

(51) International classification	:H01R0043020000, B23K0026210000, H01R0004620000, H01M0002200000, H01R0004020000	(71) Name of Applicant : 1)TE Connectivity Germany GmbH Address of Applicant :Amp`restrasse 12-14, 64625, Bensheim, Germany Germany
(31) Priority Document No	:10 2019 126 012.4	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)BERIKAI VASU, Aniruddha
(33) Name of priority country	:Germany	2)BLUMENSCHNEIN, Rudi
(86) International Application No	:NA	3)DRESSEL, Andre Martin
Filing Date	:NA	4)BRABETZ, Florian
(87) 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 welding process, in which a conductor is welded onto a workpiece. The conductor comprises a first metal and the workpiece comprises a second metal. First, an insulation of the conductor is removed over a predetermined length. Subsequently, a bead is formed in a stripped region of the conductor. Subsequently, the conductor is held down on the workpiece, the holding down having the effect of producing a mechanical contact in a welding region between the conductor and the workpiece. The welding region is in this case arranged in the region of the bead. Finally, the conductor is welded onto the workpiece in the welding region by means of laser welding. (Figure 5)

No. of Pages : 21 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041177 A

(19) INDIA

(22) Date of filing of Application :23/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROCESS FOR PREPARING AN IZM-2 ZEOLITE IN THE PRESENCE OF A NITROGENOUS ORGANIC STRUCTURING AGENT IN HYDROXIDE FORM AND OF AN ALKALI METAL CHLORIDE, IN FLUORINATED OR NON-FLUORINATED MEDIUM

(51) International classification	:C01B0039480000, B01J0029700000, B01J0029760000, B01J0029740000, B01J0029780000	(71) Name of Applicant : 1)IFP Energies nouvelles Address of Applicant :1 et 4, avenue de Bois-Prau, F-92852 Rueil-Malmaison Cedex, France France
(31) Priority Document No	:19/10.619	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)MARTINEZ FRANCO, Raquel
(33) Name of priority country	:France	2)PRIGENT, Monique
(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 process for preparing an IZM-2 zeolite, comprising at least: i) mixing, in aqueous medium, of at least one source of at least one tetravalent element X (XO₂), at least one source of at least one trivalent element (Y₂O₃), 1,6-bis(methylpiperidinium)hexane dihydroxide, at least one source of at least one alkali metal M of valency n chosen from alkali metal chlorides, n being an integer greater than or equal to 1, M being chosen from lithium, potassium, sodium and caesium, and the mixture of at least two of these metals, and optionally in the presence of a source of at least one fluoride anion, BF, the mixture having a specific molar composition to obtain a homogeneous precursor gel; ii) hydrothermal treatment of said precursor gel. Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041372 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : DETACHABLE INSOLE ACCESSORY

(51) International classification	:A43B0007140000, A43B0001000000, A43B0007240000, G01M0001040000, A43B0021260000	(71) Name of Applicant : 1)SELVA KUMAR Address of Applicant :C/O PUSHPARAJ JESUPILLAI, #48/10, KAMARAJAPURAM, TRIVELLORE, TAMILNADU - 602 001, INDIA. Tamil Nadu India
(31) Priority Document No	:U S A	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)SELVA 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 :

ABSTRACT DETACHABLE INSOLE ACCESSORY A detachable insole accessory (10) for a footwear comprising base plate (12) adapted to be placed inside the footwear proximal to a heel end and at least one support plate (14) extending from a first end (16) of the base plate (12) at an acute angle, forming a wedge shaped gap (22) between the base plate (12) and the support plate (14). The support plate (14) is configured to bend inward towards the wedge shaped gap (22) upon application of a pressure on a top surface (18) thereof and rebound to an initial position when the pressure is released. This provides adequate lift and shift support to the wearer while performing activities such as walking, running and other exercises.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041421 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : COMBINE HARVESTER, METHOD AND ARRANGEMENT FOR ITS TRANSPORT

(51) International classification	:H02G0003040000, F21S0004280000, A01B0059000000, C02F0001040000, A01F0012440000	(71) Name of Applicant : 1)CLAAS Selbstfahrende Erntemaschinen GmbH Address of Applicant :M ¹ 4hlenwinkel 1, 33428 Harsewinkel, Germany Germany
(31) Priority Document No	:10 2019 126 161.9	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)KERSTEN, Johannes
(33) Name of priority country	:Germany	2)BUSCHHOFF, Peter
(86) International Application No	:NA	3)JANSSEN, Eberhard
Filing 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 modular combine harvester (1) can be disassembled into at least one substructure module (2) and one superstructure module (3). The substructure module (2) and the superstructure module (3) are dimensioned to fit into a container (32) one behind the other in longitudinal direction. (Figure 3)

No. of Pages : 20 No. of Claims : 11

(54) Title of the invention : MINIATURIZED INHALATION DEVICE

(51) International classification	:A61M0015000000, A61M0015080000, A61F0005080000, E04D0013100000, F02M0037080000	(71) Name of Applicant : 1)Aspuraclip GmbH Address of Applicant :Mittelstrae 7, 12529 Schnefeld, Germany. Germany
(31) Priority Document No	:10 2019 126 003.5	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)Wolfgang Kleiner
(33) Name of priority country	:Germany	2)Vinh-Nghi Tiet
(86) International Application No	:NA	3)Manfred Wollmershäuser
Filing 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 miniaturized inhalation device (1) for inhaling at least one active ingredient through the nose, comprising: a substantially U-shaped component and a first and second elongate reservoir portion (2, 3) which each have a cavity (9, 10) for receiving an active ingredient and being configured to be introduced into a nostril. The cavities (9, 10) each have an opening (2c, 3c) on the top side through which the active ingredient can exit from the corresponding cavity (9, 10). The inhalation device (1) also has a curved bracket portion (4) which integrally connects the first and the second elongate reservoir portion (2, 3) and extends at least in a base region of the U-shaped component, and a self-holding mechanism to be held against the nose, in which mechanism the first and the second elongate reservoir portion (2, 3) are elastically pretensioned by means of the curved bracket portion (4) against a bending up movement which increases the distance between the first and the second elongate reservoir portion (2, 3) and an integral clamping projection (12, 13) is arranged on the inside in the region of the first and the second elongate reservoir portion (2, 3), which projections engage the opposite sides of the nasal septum for holding. A set comprising at least one inhalation device (1) and one storage container (20) may also be provided.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041625 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : FLOW CONTROL DEVICE

(51) International classification	:F16K0047080000, A61J0015000000, B23P0015000000, F16C0033540000, A61F0002070000	(71) Name of Applicant : 1)Severn Glocon Limited Address of Applicant :Olympus Park, Quedgeley, Gloucester GL2 4NF, United Kingdom U.K.
(31) Priority Document No	:1913950.0	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)MAFFIN, Nick
(33) Name of priority country	:U.K.	
(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 flow control device is described comprising a generally cylindrical cage 12 including a series of perforations 14 defining, in part, convoluted flow paths between inner and outer peripheries of the device 10, and fences 18 restricting axial flow along at least one of the inner and outer periphery of the cage 12, wherein at least one of the fences 18 is shaped to include a first section 18a at a first axial position, a second section 18b at an axial position spaced from the first section 18a, and interconnecting sections 18c interconnecting the first and second sections 18a, 18b. [FIGURE 4]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041643 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : FLOW CONTROL DEVICE

(51) International classification	:A61F0013537000, F16K0047080000, E21B0043080000, E03C0001046000, F16K0011200000	(71) Name of Applicant : 1)Severn Glocon Limited Address of Applicant :Olympus Park, Quedgeley, Gloucester GL2 4NF, United Kingdom U.K.
(31) Priority Document No	:1913942.7	(72) Name of Inventor :
(32) Priority Date	:27/09/2019	1)SLATER, Darryl
(33) Name of priority country	:U.K.	
(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 flow control device is described comprising a body including a first flow control member 24a and a second flow control member 24b, each of which is provided with apertures or recesses 30, 36, 38, the apertures or recesses 30 of the first flow control member 24a overlapping the openings or recesses 36, 38 of the second flow control member 24b to define a flow path extending between a first surface 26 of the body and a second surface 28 of the body, wherein the shapes and/or sizes of at least some of the apertures or recesses 30, 36, 38 of at least one of the flow control members 24a, 24b are adapted to promote tangential or transverse fluid flow within the body. [FIGURE 4]

No. of Pages : 15 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044041829 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEMS AND METHODS TO IMPROVE DISTANCE PROTECTION IN TRANSMISSION LINES

(51) International classification	:H02H0007260000, G01R0031080000, H02H0003400000, H02H0001000000, A61B0042000000	(71) Name of Applicant : 1)GENERAL ELECTRIC TECHNOLOGY GmbH Address of Applicant :Brown Boveri Strasse 7, 5400 Baden Switzerland Switzerland
(31) Priority Document No	:16/584,723	(72) Name of Inventor :
(32) Priority Date	:26/09/2019	1)Zhiying Zhang
(33) Name of priority country	:U.S.A.	2)Hengxu Ha
(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 :
PLEASE SEE ATTACHED

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044042343 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND MOBILE TERMINAL

(51) International classification	:G08G0001096700, H04N0021440200, H04B0007005000, H04W0088020000, G01C0021280000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan
(31) Priority Document No	:2019-180650	(72) Name of Inventor :
(32) Priority Date	:30/09/2019	1)KAKIMOTO, Takaya
(33) Name of priority country	:Japan	2)TATSUMI, Shogo
(86) International Application No	:NA	3)NISHIDA, Shogo
Filing Date	:NA	4)SATO, Takashi
(87) International Publication No	: NA	5)SUZUKI, Akiyuki
(61) Patent of Addition to Application Number	:NA	6)ABE, Takayuki
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An information processing apparatus according to the present invention includes receiving means for receiving, from a mobile terminal, detection information containing a detection result of a sensor of the mobile terminal and a position of the mobile terminal, distinguishing means for discriminating a performance level of the mobile terminal, and distinguishing the detection information based on a discrimination result, and generating means for generating caution information indicating a caution-requiring spot on a road, based on the detection information distinguished by the distinguishing means. (Figure 6A)

No. of Pages : 56 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044042448 A

(19) INDIA

(22) Date of filing of Application :30/09/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : INFORMATION TERMINAL

(51) International classification	:B60W0050140000, B60Q0009000000, H04W0064000000, H04W0076110000, G06F0003160000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan Japan
(31) Priority Document No	:2019-180651	(72) Name of Inventor :
(32) Priority Date	:30/09/2019	1)NISHIDA, Shogo
(33) Name of priority country	:Japan	2)TATSUMI, Shogo
(86) International Application No	:NA	3)SUZUKI, Akiyuki
Filing Date	:NA	4)SATO, Takashi
(87) International Publication No	: NA	5)ABE, Takayuki
(61) Patent of Addition to Application Number	:NA	6)KAKIMOTO, Takaya
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[PROBLEM TO BE SOLVED] A technique implementing generation of an approach sound at a low cost is provided. [SOLUTION] An information terminal including a display and a speaker comprises: a speed detection unit configured to detect a moving speed of the information terminal; and a sound control unit configured to control output of a sound from the speaker in accordance with the moving speed of the information terminal detected by the speed detection unit. [SELECTED DRAWING] Fig. 1

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047042705 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : DEPLOYABLE SPACECRAFT BODY

(51) International classification	:B64G0001220000, B64G0001660000, B64G0001640000, B64G0001000000, B64G0001100000
(31) Priority Document No	:1803618.6
(32) Priority Date	:07/03/2018
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2019/050637
Filing Date	:07/03/2019
(87) International Publication No	:WO 2019/171062
(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)OXFORD SPACE SYSTEMS LIMITED

Address of Applicant :1, Zephyr Building, Eighth Street, Harwell, Oxford, Didcot Oxfordshire OX11 0RL U.K.

(72)Name of Inventor :

1)LAWTON, Michael David

2)YOU, Zhong

3)FELLOWS, Deborah

(57) Abstract :

A spacecraft is disclosed, comprising a deployable spacecraft body (110) comprising a plurality of sub-systems (321-324) for controlling operations of the spacecraft, and a plurality of panels (101, 102) and a plurality of hinges (112-115) each connecting adjacent ones of the plurality of panels, the hinges being arranged to permit the plurality of panels to be folded into a stowed configuration and unfolded into a deployed configuration, wherein the plurality of sub-systems are fixed to and supported by one or more of the plurality of panels. By forming the body of the spacecraft from a deployable structure, the overall size of the spacecraft can be significantly reduced in the stowed configuration. In some embodiments, a plurality of the spacecraft in the stowed configuration can be combined into a modular spacecraft assembly prior to launch, with data and power connections between the plurality of stowed spacecraft being used to transfer power from, and data to, a payload monitoring unit on the launch vehicle.

No. of Pages : 14 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047053869 A

(19) INDIA

(22) Date of filing of Application :10/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : DISTRIBUTED RELAY

(51) International classification	:H01Q0021280000, H01Q0001520000, H04B0007155000, H01Q0001240000, H04L0012400000	(71) Name of Applicant : 1)INTEL CORPORATION Address of Applicant :2200 Mission College Boulevard Santa Clara, California 95054 U.S.A.
(31) Priority Document No	:62/777416	(72) Name of Inventor :
(32) Priority Date	:10/12/2018	1)MALTSEV, Alexander
(33) Name of priority country	:U.S.A.	2)SADRI, Ali
(86) International Application No	:PCT/US2019/053381	3)PUDEYEV, Andrey
Filing Date	:27/09/2019	4)XIAN, Liang
(87) International Publication No	:WO 2020/123012	5)FAZEL SARJOU, Fatemeh
(61) Patent of Addition to Application Number	:NA	6)CHIN, Cheng-Yuan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure describes systems, methods, and devices related to a distributed relay. The distributed relay may utilize beam forming and/or a specific physical arrangement of transmit and receive antennas to ensure a high isolation between antennas. The distributed relay may further facilitate the concurrent operation of two different intermediate frequency (IF) chains to support communications between a network entity and user device, receiving and transmitting data on each of the two IF chains independently of one another.

No. of Pages : 66 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047053936 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : POSE CORRECTION

(51) International classification	:G06K0009000000, G06K0009620000, A63F0013770000, G06F0016220000, G06T0015600000	(71) Name of Applicant : 1)GOOGLE LLC Address of Applicant :1600 Amphitheatre Parkway Mountain View, CA 94043 U.S.A.
(31) Priority Document No	:16/258348	(72) Name of Inventor :
(32) Priority Date	:25/01/2019	1)HEFNY, Tarek
(33) Name of priority country	:U.S.A.	2)CASTANEDA, Humberto
(86) International Application No	:PCT/US2019/053692	
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/154000	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Some implementations can include a computer-implemented method, computer readable medium, and/or system for pose correction of video images captured by a mobile device.

No. of Pages : 25 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202047057237 A

(19) INDIA

(22) Date of filing of Application :30/12/2020

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM DETECTION METHOD FOR UPS, AND SYSTEM

(51) International classification	:H02J0009060000, H02B0001200000, G01R0031500000, H02M0007120000, H02J0009000000	(71) Name of Applicant : 1)ZHANGZHOU KEHUA TECHNOLOGY CO., LTD. Address of Applicant :Beidou Industrial Zone, Jinfeng Industrial District Zhangzhou, Fujian 363000 China 2)KEHUA HENGSHENG CO., LTD.
(31) Priority Document No	:201811603243.9	(72) Name of Inventor :
(32) Priority Date	:26/12/2018	1)WANG, Dingfu
(33) Name of priority country	:China	2)LIN, Jianquan
(86) International Application No	:PCT/CN2019/108616	3)GAO, Lihong
Filing Date	:27/09/2019	4)XU, Min
(87) International Publication No	:WO 2020/134259	5)SHI, Xuelei
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system detection method for a UPS, and a system. The detection method comprises: after connecting a circuit of a UPS, acquiring, before the UPS starts operation, mains power information of a mains power to which at least two phases of a mains power terminal of the UPS are connected, and detecting a mains power system by means of the mains power information to obtain an input wiring system of the UPS (S1); acquiring alternating current information of an alternating current power supply to which at least two phases of a branch terminal of the UPS are connected, and detecting an alternating current system by means of the alternating current information to obtain an output wiring system of the UPS (S2); and comparing the input wiring system and the output wiring system of the UPS against a configured input configuration system and output configuration system of the UPS, correspondingly, and if a comparison result indicates that the wiring systems and the configuration systems are consistent, determining that actual wiring systems of the UPS match the configuration systems of itself, and otherwise, determining that the systems are not consistent (S3). The detection method prevents failures such as a mains power boost abnormality and output short-circuit failures, and improves UPS safety and reliability.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202144013976 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : LIBRARY USER NETWORKING AND VIRTUAL ASSISTANT

(51) International classification	:G06Q0050200000, A45F0003040000, G09B0019000000, A47B0039120000, A47B0063000000	(71)Name of Applicant : 1)Rithika P S Address of Applicant :Dept. of ECE, Karpagam College of Engineering, Coimbatore - 32 Tamil Nadu India
(31) Priority Document No	:CN202400531U	2)Anusri A
(32) Priority Date	:12/05/2019	3)Shairam R
(33) Name of priority country	:India	4)Sam Clastine J
(86) International Application No	:PCT// /	5)Dr C Priya
Filing Date	:01/01/1900	(72)Name of Inventor :
(87) International Publication No	: NA	1)Shairam R
(61) Patent of Addition to Application Number	:NA	2)Sam Clastine J
Filing Date	:NA	3)Anusri A
(62) Divisional to Application Number	:NA	4)Rithika P S
Filing Date	:NA	5)Dr C Priya

(57) Abstract :

Library is an important storehouse of knowledge and it should be implemented effectively in schools, colleges and general libraries to provide an effective and easy to use transparent book lending system to the students. But currently most of the schools, colleges and all general libraries use the conventional method in their libraries i.e., in means of maintaining and accessing books. Students are not much aware of the books that are available in their institution. They are facing difficulties regarding their due dates to return the books. The students are receiving recommendations and guidance from their mentors about the books they can refer, but still there exists a void about the vast variety of the books available in the same subject. Also, there is no way to know the availability of a book in the library except visiting the library to check it. The mentors also not able to monitor the studentTMs progress in acquiring knowledge from the library. And there isnTMt any common medium to discuss and share oneTMs experience and knowledge about a book to others. This invention has the ability to overcome the above-mentioned limitations.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147005200 A

(19) INDIA

(22) Date of filing of Application :08/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ADJUSTABLE ANCHOR FOR PRINTED CIRCUIT BOARD ENVIRONMENTAL SENSOR

(51) International classification	:G01N0033000000, B01J0035000000, G06F0003000000, E21B0041000000, E21B0023020000	(71) Name of Applicant : 1)CISCO TECHNOLOGY, INC. Address of Applicant :170 West Tasman Drive San Jose, CA 95134-1706 U.S.A.
(31) Priority Document No	:201841036987	(72) Name of Inventor :
(32) Priority Date	:01/10/2018	1)GHOUSE, Mohammed
(33) Name of priority country	:India	2)NAYAK, Shailesh
(86) International Application No	:PCT/US2019/053063	3)PINJALA, Damaruganath
Filing Date	:26/09/2019	4)GUPTA, Rohit, Dev
(87) International Publication No	:WO 2020/072262	5)CAP, Mehmet, Onder
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one example, a first tubular member has a first diameter and is configured to attach to a printed circuit board. A second tubular member has a second diameter different from the first diameter and is configured to hold an environmental sensor for collecting data relating to an environment of the printed circuit board. The second tubular member is vertically adjustable relative to the first tubular member.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147005976 A

(19) INDIA

(22) Date of filing of Application :12/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD FOR CONFIGURING TIME SLOT FORMAT AND COMMUNICATION DEVICE

(51) International classification	:H04W0072040000, H04L0005000000, H04W0052580000, H04L0012430000, H04W0076270000	(71) Name of Applicant : 1)HUAWEI TECHNOLOGIES CO., LTD. Address of Applicant :Huawei Administration Building Bantian, Longgang Shenzhen, Guangdong 518129 China
(31) Priority Document No	:201811138766.0	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)LIU, Fengwei
(33) Name of priority country	:China	2)CHEN, Lei
(86) International Application No	:PCT/CN2019/108341	3)QIU, Jing
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/063797	
(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 configuring slot format, which can configure slot format for communication between an IAB node and a lower-level node, so as to provide a basis for normal communication between the IAB node and the lower-level node. The method comprises: sending, by a second node, first configuration information to a first node, the second node being an upper-level node of the first node; determining, by the first node, the slot format of each slot in a first set according to the first configuration information, the first set includes the slot for communication between the first node and a third node in one or more periods, the third node being a lower-level IAB node of the first node or a terminal device served by the first node; modifying, by the first node, the slot format of a portion of slots in the first set to obtain the modified slot format of the portion of slots.

No. of Pages : 42 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147006995 A

(19) INDIA

(22) Date of filing of Application :19/02/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ASSOCIATION OF TRANSMISSION CONFIGURATION INDICATOR STATES TO PHYSICAL CELL IDENTITIES

(51) International classification	:H04L0005000000, H04W0072040000, H04B0007080000, H04L0001000000, H04B0007022000	(71) Name of Applicant : 1)QUALCOMM INCORPORATED Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:20180100442	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)MANOLAKOS, Alexandros
(33) Name of priority country	:Greece	2)ZHANG, Xiaoxia
(86) International Application No	:PCT/US2019/053613	3)LUO, Tao
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/069415	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A base station may identify an association between a set of physical cell identifiers (PCIs) identifying different transmission reception points (TRPs) and a set of transmission configuration indicator (TCI) states for a user equipment (UE). The base station may transmit a TCI state and PCI association indication to the UE. The UE may receive a downlink transmission using a receive beam associated with a TCI state, and may identify a PCI of the set of PCIs to use to decode the received downlink transmission. In cases where the TCI state used to receive the downlink transmission is associated with multiple PCIs, the UE may select a default PCI from the multiple PCIs, and may decode the received transmission accordingly. In some examples, the UE may receive reference signals from one or more of the serving TRPs and may identify a PCI to use to decode the received reference signals.

No. of Pages : 67 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147008905 A

(19) INDIA

(22) Date of filing of Application :03/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : MESSAGE 1 OF A TWO-STEP RANDOM ACCESS PROCEDURE

(51) International classification	:H04W0074080000, H04W0072040000, H04L0005000000, H04B0007080000, H04L0005020000	(71) Name of Applicant : 1)QUALCOMM INCORPORATED Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:62/740937	(72) Name of Inventor :
(32) Priority Date	:03/10/2018	1)ZHANG, Xiaoxia
(33) Name of priority country	:U.S.A.	2)YERRAMALLI, Srinivas
(86) International Application No	:PCT/US2019/053281	3)SUN, Jing
Filing Date	:26/09/2019	4)DAMNJANOVIC, Aleksandar
(87) International Publication No	:WO 2020/072282	5)OZTURK, Ozcan
(61) Patent of Addition to Application Number	:NA	6)LUO, Tao
Filing Date	:NA	7)WEI, Yongbin
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, systems, and devices for wireless communications are described. A user equipment (UE) may identify that the UE is configured to use a two-step random access channel (RACH) procedure. The two-step RACH procedure may include an uplink request message and a downlink response. The UE may transmit the uplink request message as part of the two-step RACH procedure, and the uplink request message may include a preamble portion that is one of a set of predefined sequences and a payload portion that includes a physical uplink shared channel waveform. The UE may receive the downlink response as part of the two-step RACH procedure and in response to the uplink request message.

No. of Pages : 61 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147008934 A

(19) INDIA

(22) Date of filing of Application :03/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : RETUNING FOR FLEXIBLE RESOURCE ALLOCATION

(51) International classification	:H04W0072040000, H04L0005000000, H04W0004700000, H04B0001713000, H04W0076270000	(71) Name of Applicant : 1)QUALCOMM INCORPORATED Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:201841036816	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)LIU, Le
(33) Name of priority country	:India	2)RICO ALVARINO, Alberto
(86) International Application No	:PCT/US2019/053517	3)TIRUCHERAI MURALIDHARAN, Vijayvaradharaj
Filing Date	:27/09/2019	4)MENON, Murali
(87) International Publication No	:WO 2020/069357	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, systems, and devices for wireless communications are described. In some cases, devices such as band limited (BL) or coverage enhancement (CE) user equipment (UE) having limited transmitting and receiving capability may operate using a subset of a system bandwidth of a carrier (e.g., narrowbands). To support frequency hopping or frequency diversity in transmissions, for example, such devices may utilize retuning when a resource allocation moves from a first narrowband to a second narrowband. Retuning, however, may create challenges when transmitting and receiving capability is limited. Aspects of this disclosure may support a flexible starting physical resource block (PRB) for indicating new resource allocations for BL or CE UEs. In some aspects, a UE is disclosed which may retune between consecutive transmission time intervals (TTIs) or subframes, for example, from a first tuning band to a second tuning band (e.g., a newly defined retuning narrowband).

No. of Pages : 61 No. of Claims : 72

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147009856 A

(19) INDIA

(22) Date of filing of Application :09/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SUBBAND-GRANULARITY LINEAR COMBINATION FOR A CSI CODEBOOK

(51) International classification	:H04B0007060000, H04W0072040000, H04L0005000000, H04B0007080000, H04W0024100000	(71) Name of Applicant : 1)QUALCOMM INCORPORATED Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.
(31) Priority Document No	:PCT/CN2018/108027	2)CHEN, Bo
(32) Priority Date	:27/09/2018	3)VITTHALADEVUNI, Pavan Kumar
(33) Name of priority country	:China	4)ZHANG, Yu
(86) International Application No	:PCT/CN2019/108051	5)MA, Ruifeng
Filing Date	:26/09/2019	6)SORIAGA, Joseph Binamira
(87) International Publication No	:WO 2020/063719	7)JI, Tingfang
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)CHEN, Bo
(62) Divisional to Application Number	:NA	2)VITTHALADEVUNI, Pavan Kumar
Filing Date	:NA	3)ZHANG, Yu
		4)MA, Ruifeng
		5)SORIAGA, Joseph Binamira
		6)JI, Tingfang

(57) Abstract :

Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment may determine channel state information for a communication link, wherein the channel state information is based at least in part on a linear combination associated with a plurality of beams of the communication link, wherein a first set of beams used for a first subband, of a plurality of subbands of the communication link, is different than a second set of beams used for a second subband of the plurality of subbands, and wherein the plurality of beams includes the first set of beams and the second set of beams; and transmit the channel state information. Numerous other aspects are provided.

No. of Pages : 24 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147010544 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TRANSMISSION METHOD FOR PAGING INDICATION INFORMATION AND COMMUNICATION APPARATUS

(51) International classification :H04W0068020000,
H04W0052020000,
H04W0068000000,
H04L0005000000,
H04W0088020000

(31) Priority Document No :201811142208.1

(32) Priority Date :28/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/108768
Filing Date :27/09/2019

(87) International Publication No :WO 2020/063928

(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.

Address of Applicant :Huawei Administration Building
Bantian, Longgang District Shenzhen, Guangdong 518129 China

(72)Name of Inventor :

1)GAO, Kuandong

2)HUANG, Huang

3)YAN, Mao

(57) Abstract :

Embodiments of the present application provide a transmission method for paging indication information and a communication apparatus, relating to the field of communications, and capable of reducing the power consumption of a terminal device to detect a PDSCH. The method comprises: a terminal device receives paging indication information, the paging indication information comprising at least one of the following bits: all or some bits of significant bits of a short message field in DCI, all or some bits of the remaining bits of the short message field in the DCI, and all or some bits of a reserved field in the DCI; and the terminal device determines whether to detect a PDSCH according to the paging indication information. The embodiments of the present application are applied to the process of the terminal device receiving the DCI, and the process of detecting or not detecting the PDSCH after the DCI is received.

No. of Pages : 26 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147010944 A

(19) INDIA

(22) Date of filing of Application :15/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : PROVIDING PREDICTIVE INSTRUCTION DISPATCH THROTTLING TO PREVENT RESOURCE OVERFLOWS IN OUT-OF-ORDER PROCESSOR (OOP)-BASED DEVICES

(51) International classification	:G06F0009380000, G06F0009500000, G06F0009300000, G06Q0010060000, G06F0015800000	(71) Name of Applicant : 1)QUALCOMM INCORPORATED Address of Applicant :5775 Morehouse Drive ATTN: International IP Administration San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:16/143883	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)HSU, Lisa Ru-feng
(33) Name of priority country	:U.S.A.	2)KOTHINTI NARESH, Vignyan Reddy
(86) International Application No	:PCT/US2019/053320	3)WRIGHT, Gregory Michael
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/069236	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Providing predictive instruction dispatch throttling to prevent resource overflow in out-of-order processor (OOP)-based devices is disclosed. In this regard, an OOP-based device includes a system resource that may be consumed or otherwise occupied by instructions, as well as an execution pipeline comprising a decode stage and a dispatch stage. The OOP further maintains a running count and a resource usage threshold. Upon receiving an instruction block, the decode stage extracts a proxy value that indicates an approximate predicted count of instructions within the instruction block that will consume a system resource. The decode stage then increments the running count by the proxy value. The dispatch stage compares the running count to the resource usage threshold before dispatching any younger instruction blocks. If the running count exceeds the resource usage threshold, the dispatch stage blocks dispatching of younger instruction blocks until the running count no longer exceeds the resource usage threshold.

No. of Pages : 16 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011137 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR PROVIDING A SERVICE PROXY FUNCTION IN A TELECOMMUNICATIONS NETWORK CORE USING A SERVICE-BASED ARCHITECTURE

(51) International classification	:H04L0012580000, H04L0012725000, H04W0072120000, H04L0012715000, H04W0060000000	(71) Name of Applicant : 1)ORACLE INTERNATIONAL CORPORATION Address of Applicant :500 Oracle Parkway Mail Stop 50P7 Redwood Shores, CA 94065 U.S.A.
(31) Priority Document No	:16/176920	(72) Name of Inventor :
(32) Priority Date	:31/10/2018	1)ASSALI, Tarek
(33) Name of priority country	:U.S.A.	2)KARUTURI, Sridhar
(86) International Application No	:PCT/US2019/053912	3)CRAIG, Jeffrey, Alan
Filing Date	:30/09/2019	4)GUPTA, Manish, Kumar
(87) International Publication No	:WO 2020/091934	5)NAGUIB, Sameh
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An example system includes a service proxy controller and a number of service proxy workers. The service proxy controller is configured for providing routing policies for a telecommunications network core. The telecommunications network core includes network functions communicating using a service-based architecture. Each service proxy worker is configured for routing telecommunications network core messages between a respective subset of the network functions by consuming the routing policies from the service proxy controller and enforcing the routing policies from the service proxy controller. Each service proxy worker is configured for providing network status reports to the service proxy controller based on the telecommunications network core messages.

No. of Pages : 23 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011257 A

(19) INDIA

(22) Date of filing of Application :17/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR LOCK-FREE COMMUNICATIONS PROCESSING AT A NETWORK NODE

(51) International classification :H04L0012875000,
G06F0009500000,
H04W0008200000,
H04L0012863000,
H04L0012580000

(31) Priority Document No :16/162112
(32) Priority Date :16/10/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053911
Filing Date :30/09/2019
(87) International Publication No :WO 2020/081224
(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)ORACLE INTERNATIONAL CORPORATION
Address of Applicant :500 Oracle Parkway Mail Stop 50P7
Redwood Shores, CA 94065 U.S.A.
(72)Name of Inventor :
1)WANG, Jinhong
2)SHI, Jingchao
3)YU, Xiaobing

(57) Abstract :

Methods, systems, and computer readable media for lock-free communications processing at a network node are disclosed. One method occurs at a first network node configured to add messages to a plurality of queues, wherein each of the plurality of queues is accessed by one of a plurality of threads. The method comprises receiving a first message associated with a first mobile subscriber; determining that the first message is associated with a first partition key; assigning, based on the first partition key, the first message to a first queue of the plurality of queues, wherein the first queue includes messages associated with the first mobile subscriber and wherein the first queue is accessible by a first thread of the plurality of threads; and processing, by the first thread, messages of the first queue in a first in, first out order.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011383 A

(19) INDIA

(22) Date of filing of Application :17/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : EXPLOITING ACTIVATION SPARSITY IN DEEP NEURAL NETWORKS

(51) International classification :G06N0003040000,
G06N0003080000,
G06N0003063000,
G06F0017160000,
G06N0003020000

(31) Priority Document No :16/147297
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053325
Filing Date :27/09/2019
(87) International Publication No :WO 2020/069239
(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)QUALCOMM INCORPORATED
Address of Applicant :5775 Morehouse Drive ATTN:
International IP Administration San Diego, California 92121-1714
U.S.A.

(72)Name of Inventor :
1)HILL, Rexford
2)LAMB, Aaron
3)GOLDFARB, Michael
4)ANSARI, Amin
5)LOTT, Christopher

(57) Abstract :

A method of exploiting activation sparsity in deep neural networks is described. The method includes retrieving an activation tensor and a weight tensor where the activation tensor is a sparse activation tensor. The method also includes generating a compressed activation tensor comprising non-zero activations of the activation tensor, where the compressed activation tensor has fewer columns than the activation tensor. The method further includes processing the compressed activation tensor and the weight tensor to generate an output tensor.

No. of Pages : 33 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011384 A

(19) INDIA

(22) Date of filing of Application :17/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DISAMBIGUATION OF INTERNET-OF-THINGS DEVICES

(51) International classification :G05B0019418000,
G06F0016000000,
H04W0004800000,
G06Q0050160000,
H04N0021835800

(31) Priority Document No :16/147319
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053326
Filing Date :27/09/2019
(87) International Publication No :WO 2020/069240
(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)QUALCOMM INCORPORATED

Address of Applicant :5775 Morehouse Drive ATTN:
International IP Administration San Diego, California 92121-1714
U.S.A.

(72)Name of Inventor :

1)LEWIS, M Anthony

2)IYER, Amalendu

3)RASTOGI, Manu

(57) Abstract :

An apparatus may identify each object of a set of objects included in a first location, wherein the set of objects includes at least one IoT device and at least one other object. The apparatus may determine a first set of attributes for the at least one IoT device. The apparatus may store registration information associated with the at least one IoT device, the registration information including a first identifier associated with the at least one IoT device and including the first set of attributes for the at least one IoT device. The apparatus may obtain an input. The apparatus may determine whether the input corresponds to the at least one IoT device based on the registration information associated with the at least one IoT device. The apparatus may control the at least one IoT device when the input corresponds to the at least one IoT device.

No. of Pages : 42 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011607 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FLEXIBLE RENDERING OF AUDIO DATA

(51) International classification	:H04S0007000000, G10L0019008000, G10L0019160000, G10L0019060000, G10L0019000000	(71) Name of Applicant : 1)QUALCOMM INCORPORATED Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:62/740260	(72) Name of Inventor :
(32) Priority Date	:02/10/2018	1)KIM, Moo Young
(33) Name of priority country	:U.S.A.	2)PETERS, Nils Gunther
(86) International Application No	:PCT/US2019/053237	
Filing Date	:26/09/2019	
(87) International Publication No	:WO 2020/072275	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In general, techniques are described for obtaining audio rendering information from a bitstream. A method of rendering audio data includes receiving, at an interface of a device, an encoded audio bitstream, storing, to a memory of the device, encoded audio data of the encoded audio bitstream, parsing, by one or more processors of the device, a portion of the encoded audio data stored to the memory to select a renderer for the encoded audio data, the selected renderer comprising one of an object-based renderer or an ambisonic renderer, rendering, by the one or more processors of the device, the encoded audio data using the selected renderer to generate one or more rendered speaker feeds, and outputting, by one or more loudspeakers of the device, the one or more rendered speaker feeds.

No. of Pages : 60 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011610 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : HANDOVER METHOD AND BASE STATION

(51) International classification :H04W0036000000,
H04W0036080000,
H04W0028020000,
H04W0028240000,
H04W0084040000

(31) Priority Document No :201811142682.4

(32) Priority Date :28/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/108545
Filing Date :27/09/2019

(87) International Publication No :WO 2020/063867

(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.
Address of Applicant :Huawei Administration Building
Bantian, Longgang District Shenzhen, Guangdong 518129 China

(72)**Name of Inventor :**
1)HU, Xingxing
2)ZHANG, Hongping

(57) Abstract :

A handover method, used by a source base station and a target base station to transmit, by means of a tunnel, a data unit after a corresponding data radio bearer (DRB) in a quality of service flow (QoS flow) changes to a second DRB. The method according to the embodiments of the present application comprises: a target base station receiving a handover request sent by a source base station, the handover request comprising first instruction information, the first instruction information being used to instruct a DRB corresponding to a quality of service flow (QoS flow) of the source base station to change from a first DRB to a second DRB; and the target base station sending, to the source base station, information concerning a tunnel, the tunnel being used by the target base station to receive a data unit sent by the source base station, the data unit being a data unit after the corresponding DRB in the QoS flow changes to the second DRB.

No. of Pages : 56 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011621 A

(19) INDIA

(22) Date of filing of Application :18/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATICALLY VALIDATING DATA INCORPORATED INTO A COMPUTER PROGRAM

(51) International classification :G06F0016230000,
G16H0040630000,
G06F0021640000,
G06Q0030000000,
G06N0020000000

(31) Priority Document No :16/145468
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/053112
Filing Date :26/09/2019
(87) International Publication No :WO 2020/069096
(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)COTIVITI, INC.
Address of Applicant :One Glenlake Pkwy NE #1400 Atlanta,
Georgia 30328 U.S.A.
(72)**Name of Inventor :**
1)CREEL, Christoper Taylor
2)ALVIS, Mykel

(57) Abstract :

Embodiments disclosed herein relate to methods, systems, and computer programs for verifying that data incorporated into a computer program is current. The methods, systems, and computer programs compare a source identifier status code associated with the data to a current source identifier status code at the location where the data was obtained. The methods, systems, and computer programs include at least one validation function which determines the validity of the data according to selected parameters. If the source identifier status code and current source identifier status code match and the at least one validation function determines the data is valid, an executable computer program incorporating the data and one or more functions is produced as output.

No. of Pages : 49 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011766 A

(19) INDIA

(22) Date of filing of Application :19/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : GATING MODEL FOR VIDEO ANALYSIS

(51) International classification	:G06N0020000000, G06K0009000000, G06N0003040000, G11B0027340000, A61B0005110000	(71) Name of Applicant : 1)GOOGLE LLC Address of Applicant :1600 Amphitheatre Parkway Mountain View, CA 94043 U.S.A.
(31) Priority Document No	:16/352605	(72) Name of Inventor :
(32) Priority Date	:13/03/2019	1)RAMASWAMY, Sharadh
(33) Name of priority country	:U.S.A.	2)CHAUDHURI, Sourish
(86) International Application No	:PCT/US2019/053501	3)ROTH, Joseph
Filing Date	:27/09/2019	
(87) International Publication No	:WO 2020/185256	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Implementations described herein relate to methods, devices, and computer-readable media to perform gating for video analysis. In some implementations, a computer-implemented method includes obtaining a video comprising a plurality of frames and corresponding audio. The method further includes performing sampling to select a subset of the plurality of frames based on a target frame rate and extracting a respective audio spectrogram for each frame in the subset of the plurality of frames. The method further includes reducing resolution of the subset of the plurality of frames. The method further includes applying a machine-learning based gating model to the subset of the plurality of frames and corresponding audio spectrograms and obtaining, as output of the gating model, an indication of whether to analyze the video to add one or more video annotations.

No. of Pages : 48 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147011855 A

(19) INDIA

(22) Date of filing of Application :19/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : POWER CONTROL METHOD AND DEVICE

(51) International classification :H04W0072120000,
H04W0072040000,
H04W0076140000,
H04W0028180000,
H04L0005000000

(31) Priority Document No :201811143574.9

(32) Priority Date :28/09/2018

(33) Name of priority country :China

(86) International Application No :PCT/CN2019/108994
Filing Date :29/09/2019

(87) International Publication No :WO 2020/063959

(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.
Address of Applicant :Huawei Administration Building,
Bantian, Longgang District Shenzhen, Guangdong 518129 China

(72)**Name of Inventor :**
1)YUAN, Shitong
2)LIU, Fengwei
3)CHEN, Lei
4)QIU, Jing

(57) Abstract :

The present application provides a transmission parameter configuration method and device. The method comprises: a first node receives a transmission configuration message, the transmission configuration message comprising: transmission configuration index information and transmission parameters corresponding to the transmission configuration index information, wherein the transmission configuration index information is used for identifying different transmission modes; the first node obtains a transmission instruction message, the transmission instruction message comprising the transmission configuration index information and being used for instructing the first node to apply the transmission parameters corresponding to the transmission configuration index information; the first node performs data transmission by means of the transmission parameters corresponding to the transmission configuration index information according to the transmission configuration index information. By means of the method, more application scenes can be met and more transmission modes can be supported, and overheads of the transmission parameters are low.

No. of Pages : 28 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012104 A

(19) INDIA

(22) Date of filing of Application :22/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : COLD STORAGE MATERIAL, REFRIGERATOR, DEVICE INCORPORATING SUPERCONDUCTING COIL, AND METHOD OF MANUFACTURING COLD STORAGE MATERIAL

(51) International classification	:F25B0009140000, C22C0038020000, B01J0020300000, C09K0005140000, B01J0020280000	(71)Name of Applicant : 1)KABUSHIKI KAISHA TOSHIBA Address of Applicant :1-1, Shibaura 1-chome, Minato-ku, Tokyo Japan 2)TOSHIBA MATERIALS CO., LTD.
(31) Priority Document No	:2018-185628	(72)Name of Inventor :
(32) Priority Date	:28/09/2018	1)KAWAMOTO, Takahiro
(33) Name of priority country	:Japan	2)EGUCHI, Tomoko
(86) International Application No	:PCT/JP2019/037995	3)YAMASHITA, Tomohiro
Filing Date	:26/09/2019	4)HAGIWARA, Masaya
(87) International Publication No	:WO 2020/067356	5)SAITO, Akiko
(61) Patent of Addition to Application Number	:NA	6)USUI, Daichi
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a cold storage material which has large specific heat and small magnetization in a very low temperature region and has good manufacturability, and a method of manufacturing the same. Further provided is a refrigerator which is charged with the cold storage material and provides high efficiency and excellent cooling performance. Furthermore, a device incorporating a superconducting coil which is capable of reducing the influence of magnetic noise due to cold storage material is provided. A cold storage material of an embodiment is a granular body which is formed of an intermetallic compound comprising not less than 80 vol% of a ThCr₂Si₂-type structure (11), and which has a crystallite size of not more than 70 nm.

No. of Pages : 49 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012389 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : HETEROARYLAZOLE COMPOUND AND PEST CONTROL AGENT

(51) International classification :A01N0043400000,
A01N0043560000,
A01N0043653000,
A01N0025040000,
C07D0213700000

(31) Priority Document No :2018-187675

(32) Priority Date :02/10/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/038480
Filing Date :30/09/2019

(87) International Publication No :WO 2020/071304

(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)NIPPON SODA CO., LTD.
Address of Applicant :2-1, Ohtemachi 2-chome, Chiyoda-ku,
Tokyo 1008165 Japan

(72)Name of Inventor :
1)SAKANISHI, Keita
2)SAKIYAMA, Norifumi
3)AOYAMA, Hikaru
4)IWASA, Takao
5)MATSUI, Maki
6)KOBAYASHI, Tomomi
7)USHIJIMA, Daisuke

(57) Abstract :

The present invention addresses the problem of providing a heteroarylazole compound that has excellent pest control activity, in particular, insecticidal activity and/or miticidal activity and high safety and can be industrially advantageously synthesized. The compound of the present invention includes a compound represented by formula (I) and an n-oxide compound, a stereoisomer, a tautomer, a hydrate and a salt thereof. In formula (I): A represents CH or a nitrogen atom; B1 represents CX1 or a nitrogen atom; X1, X2 and X3 independently represent a hydrogen atom, an optionally substituted C1-6 alkyl group, an optionally substituted C2-6 alkenyl group, etc.; R1 represents an optionally substituted C1-6 alkylthio group, an optionally substituted C1-6 alkylsulfinyl group, etc.; R2 represents an optionally substituted C1-6 alkyl group; and R represents an optionally substituted C1-6 alkyl group.

No. of Pages : 137 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012543 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CIRCUIT BREAKER AND DOUBLE-ACTION TRANSMISSION DEVICE THEREOF

(51) International classification	:H01H0033420000, H01H0033666000, F02D0011100000, H01H0033020000, B66C0001100000	(71)Name of Applicant : 1)XI'AN XD SWITCHEAR ELECTRIC CO., LTD. Address of Applicant :No.509 Daqing Road Xi'an, Shaanxi 710077 China 2)CHINA XD ELECTRIC CO., LTD.
(31) Priority Document No	:201811182552.3	(72)Name of Inventor :
(32) Priority Date	:11/10/2018	1)SHI, Jun
(33) Name of priority country	:China	2)CUI, Mingshuo
(86) International Application No	:PCT/CN2019/108968	3)SUN, Huifeng
Filing Date	:29/09/2019	4)CHEN, Yaowei
(87) International Publication No	:WO 2020/073847	5)YANG, Long
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A circuit breaker and a double-action transmission device thereof. The double-action transmission device (2) of the circuit breaker comprises a connection rod (21), a connection plate (22), and a connection plate transmission assembly. The connection plate transmission assembly comprises a first connection plate (24) and a second connection plate (25) hinge-connected to the first connection plate (24). An end of the first connection plate (24) away from the second connection plate (25) is hinge-connected to the connection rod (21) by means of a first rotary pin (23). An end of the second connection plate (25) away from the first connection plate (21) is hinge-connected to a driven-side connection member (3) by means of a second rotary pin (26). A first guide hole (221) for the movement of the first rotary pin (23) and a second guide hole (222) for the movement of the second rotary pin (26) are provided on the connection plate (22). In the double-action transmission device, the connection plate transmission assembly comprises the first connection plate (24) and the second connection plate (25), and the length of the first connection plate (24) and the length of the second connection plate (25) are adjusted according to transmission speed requirements, such that the movement speed and the transmission of the connection plate transmission assembly are not affected by the distance between the driven-side connection member (3) and a driving-side connection member (1). Therefore, the invention is applicable to performing breaking at a high voltage level, and the versatility of the double-action transmission device is improved.

No. of Pages : 13 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012669 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYNTHETIC METHOD FOR THE PREPARATION OF A 3-[5-AMINO-4-(3-CYANOBENZOYL)-PYRAZOL COMPOUND

(51) International classification	:A61K0031415000, C07D0231380000, C07D0401140000, C07D0207340000, C07D0401100000
(31) Priority Document No	:1815695.0
(32) Priority Date	:26/09/2018
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2019/052718
Filing Date	:26/09/2019
(87) International Publication No	:WO 2020/065323
(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)MERO BIOPHARMA 1 LIMITED

Address of Applicant :1 Cavendish Place London W1G 0QF
U.K.

(72)Name of Inventor :

1)MEISENBACH, Mark

2)MARTIN, Benjamin

3)RONDE, Niek Johannes

4)RUIZ, Carmen

(57) Abstract :

Provided is a process for preparing a compound, comprising the steps of a) Reacting a compound of Formula A (Formula A) with the compound 3 (3) to provide the compound 5 (5) or a salt or solvate thereof, wherein R is a linear or branched C1-C5 alkyl. Further provided is the compound 5 or a salt or solvate thereof. (5) The use of these compounds in the synthesis of 3-[5-Amino-4-(3-Cyanobenzoyl)-Pyrazol-1-yl]-N-Cyclopropyl-4-Methylbenzamide is also provided.

No. of Pages : 25 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012670 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : ANTI-CD3 ANTIBODY FOLATE BIOCONJUGATES AND THEIR USES

(51) International classification	:C07K0016280000, A61K0039000000, A61B0017340000, A61K0009127000, G01N0033820000	(71) Name of Applicant : 1)AMBRX, INC. Address of Applicant :10975 North Torrey Pines Road La Jolla, CA 92037 U.S.A.
(31) Priority Document No	:62/723793	(72) Name of Inventor :
(32) Priority Date	:28/08/2018	1)RASHID, Md Harunur
(33) Name of priority country	:U.S.A.	2)SUN, Ying
(86) International Application No	:PCT/US2019/048677	3)TIAN, Feng
Filing Date	:28/08/2019	4)MOON, Sung Ju
(87) International Publication No	:WO 2020/047176	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein are novel anti-CD3 Folate antibodies and uses thereof in the treatment of diseases or conditions that would benefit from such.

No. of Pages : 160 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012671 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : NOVEL HYDROGEL CONJUGATES

(51) International classification	:A61B0006000000, A61B0005000000, A61K0047690000, A61K0038360000, A61K0047640000	(71) Name of Applicant : 1)ASCENDIS PHARMA A/S Address of Applicant :Tuborg Boulevard 12 2900 Hellerup Denmark
(31) Priority Document No	:18196864.5	(72) Name of Inventor :
(32) Priority Date	:26/09/2018	1)STARK, Sebastian
(33) Name of priority country	:EPO	2)VOIGT, Tobias
(86) International Application No	:PCT/EP2019/075881	3)BISEK, Nicola
Filing Date	:25/09/2019	
(87) International Publication No	:WO 2020/064846	
(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 conjugates comprising backbone moieties that are crosslinked via particular crosslinker moieties to which a plurality of drug moieties are covalently and reversibly conjugated. It also relates to their use as medicaments and their use in the diagnosis, prevention and treatment of diseases.

No. of Pages : 165 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012672 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : A JOINT CHANNEL ESTIMATION AND DATA DETECTION TECHNIQUE TO DECODE 5G UPLINK CONTROL CHANNEL

(51) International classification	:H04L0025020000, H04L0005000000, H04L0001180000, H04L0027260000, H04W0084040000	(71) Name of Applicant : 1)AT&T INTELLECTUAL PROPERTY I, L.P. Address of Applicant :675 W. Peachtree St. Suite 4000 Atlanta, Georgia 30308 U.S.A.
(31) Priority Document No	:16/142277	(72) Name of Inventor : 1)NAMMI, SaiRamesh
(32) Priority Date	:26/09/2018	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/047583	
Filing Date	:21/08/2019	
(87) International Publication No	:WO 2020/068314	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A joint channel estimation and data detection technique for decoding an uplink control channel using resource elements that are redundant in acknowledgement and negative acknowledgement uplink control channel transmissions is disclosed. To improve the performance of a decoder, channel estimation can be performed using reference signals (pilot symbols) to determine the characteristics of a channel at given locations within a subframe. For some uplink control channel formats, however, there aren't dedicated locations for reference signals/symbols, and so channel estimation is not performed. Since the acknowledgement and negative acknowledgement resource elements may be identical, at identical locations within the two different types of messages, the mobile device can replace the resource elements at the redundant locations with reference signals, thus the receiver can perform channel estimation using the reference signals, which can improve the performance of decoding the rest of the acknowledgement, negative acknowledgement transmission.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012673 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : GENERALIZED BEAM MANAGEMENT FRAMEWORK

(51) International classification	:H04B0007060000, H04L0005000000, H04W0072080000, H04W0072120000, H04B0007080000	(71) Name of Applicant : 1)AT&T INTELLECTUAL PROPERTY I, L.P. Address of Applicant :675 W. Peachtree St. Suite 4000 Atlanta, Georgia 30308 U.S.A.
(31) Priority Document No	:62/738284	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)AKOUM, Salam
(33) Name of priority country	:U.S.A.	2)WANG, Xiaoyi
(86) International Application No	:PCT/US2019/047587	3)GHOSH, Arunabha
Filing Date	:21/08/2019	4)NOVLAN, Thomas
(87) International Publication No	:WO 2020/068317	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Various aspects of the technology described herein are directed towards a generalized beam management framework in which beam management takes into account interference to steer a beam. Aspects comprise configuring a report request comprising a resource setting with channel state information-reference signal resource data and an associated report setting with parameter data corresponding to the one or more channel state information-reference signal resources. The report request is configured to instruct a user equipment device to include interference information when performing user equipment device beam management and reporting. Upon receiving the report request, the user equipment performs a beam measurement operation that includes interference information when generating the beam management report sent to the network device.

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012674 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : AUTOMATIC PERSONAL PROTECTIVE EQUIPMENT CONSTRAINT MANAGEMENT SYSTEM

(51) International classification	:G05B0019418000, A62B0009000000, H04L0029080000, G06F0016210000, B29C0064386000	(71) Name of Applicant : 1)3M INNOVATIVE PROPERTIES COMPANY Address of Applicant :3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 U.S.A.
(31) Priority Document No	:62/736402	(72) Name of Inventor :
(32) Priority Date	:25/09/2018	1)SWIFT, Brian J.
(33) Name of priority country	:U.S.A.	2)LONG, Andrew W.
(86) International Application No	:PCT/IB2019/057931	3)STEIN, David R.
Filing Date	:19/09/2019	
(87) International Publication No	:WO 2020/065463	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system includes a manufacturing execution system and a computing device communicatively coupled to the manufacturing execution system. The manufacturing execution system stores data indicative of at least one production configuration and one or more hazards associated with the at least one production configuration. The computing devices includes one or more computer processors and memory. The memory includes instructions that when executed by the one or more computer processors cause the one or more computer processors to determine one or more constraints associated with personal protective equipment, identify a set of personal protective equipment that satisfies the one or more constraints, and perform, based on the set of personal protective equipment, at least one operation.

No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012675 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : FACILITATING IMPROVED PERFORMANCE IN ADVANCED NETWORKS WITH MULTIPLE TRANSMISSION POINTS

(51) International classification	:H04L0005000000, H04L0029060000, H04N0021482000, H04L0012240000, H04W0088080000	(71) Name of Applicant : 1)AT&T INTELLECTUAL PROPERTY I, L.P. Address of Applicant :675 W. Peachtree Street Suite 4000 Atlanta, Georgia 30308 U.S.A.
(31) Priority Document No	:62/738597	(72) Name of Inventor :
(32) Priority Date	:28/09/2018	1)NAMMI, SaiRamesh
(33) Name of priority country	:U.S.A.	2)GHOSH, Arunabha
(86) International Application No	:PCT/US2019/047581	
Filing Date	:21/08/2019	
(87) International Publication No	:WO 2020/068312	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Facilitating improved performance in advanced networks (e.g., 4G, 5G, and beyond) with multiple transmission points is provided herein. Operations of a system can comprise determining respective port numbers for respective ranks of a first transmission to a user equipment device. The operations also can comprise receiving an indication, from a second network device, of a first demodulation reference signal associated with a port number for a rank of a second transmission to the user equipment device from the second network device. Further, the operations can comprise facilitating a conveyance of the first transmission to the user equipment device. The first transmission can comprise a second demodulation reference signal on a different port number than the port number associated with the second transmission.

No. of Pages : 46 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012676 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD, APPARATUS AND COMPUTER READABLE MEDIUM FOR ALLOCATING MINI-SLOTS

(51) International classification :H04W0072040000,
H04L0005000000,
H04W0052260000,
H02J0050800000,
H04W0072080000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2018/048286
Filing Date :28/08/2018
(87) International Publication No :WO 2020/046275
(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)NOKIA SOLUTIONS AND NETWORKS OY
Address of Applicant :Karaportti 7 02610 Espoo Finland
2)NOKIA USA INC.
(72)Name of Inventor :
1)SEN, Moushumi
2)KALYANASUNDARAM, Suresh
3)AGRAWAL, Rajeev

(57) Abstract :

A base station including a memory and a processor. The memory is configured to store computer readable instructions. The processor is configured to execute the computer readable instructions such that the memory, the processor and the computer readable instructions cause the base station to order a plurality of reception devices according to an amount of transmission resources required to transmit transmission data to each reception device, assign transmission resources in a time slot in blocks to each of the plurality of reception devices in order from a first reception device requiring the least amount of transmission resources to a reception device among the plurality of reception devices requiring a greatest amount of transmission resources, the time slot being divided into a plurality of symbols, and transmit the transmission data to the plurality of reception devices using the assigned transmission resources.

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012677 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CHANNEL STATE INFORMATION DETERMINATION USING DEMODULATION REFERENCE SIGNALS IN ADVANCED NETWORKS

(51) International classification :H04B0007045600,
H04B0007060000,
H04L0005000000,
H04W0024100000,
H04L0012260000

(31) Priority Document No :16/146618
(32) Priority Date :28/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/047585
Filing Date :21/08/2019
(87) International Publication No :WO 2020/068316
(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)AT&T INTELLECTUAL PROPERTY I, L.P.

Address of Applicant :675 W. Peachtree Street Suite 4000
Atlanta, Georgia 30308 U.S.A.

(72)Name of Inventor :

1)NAMMI, SaiRamesh

2)GHOSH, Arunabha

(57) Abstract :

Facilitating channel state information determination using demodulation reference signals in advanced networks (e.g., 4G, 5G, and beyond) is provided herein. Operations of a system can comprise communicating first channel state information to a network device of a communication network. The first channel state information can be determined based on a received reference signal. The operations can also comprise determining second channel state information based on a scheduled demodulation reference signal received from the network device and comprising determining a precoding matrix index, rank information, and channel quality index information. Further, the operations can comprise communicating the second channel state information to the network device.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012678 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SCHEDULING DOWNLINK DATA AND UPLINK DATA BASED ON RECEIVED RESOURCE REQUIREMENTS

(51) International classification	:H04W0072040000, H04L0001180000, H04B0007041300, H04L0029080000, H04L0029060000	(71) Name of Applicant : 1)NOKIA SOLUTIONS AND NETWORKS OY Address of Applicant :Karakaari 7 02610 Espoo Finland (72) Name of Inventor : 1)VAN PHAN, Vinh 2)YU, Ling
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/FI2018/050609	
Filing Date	:29/08/2018	
(87) International Publication No	:WO 2020/043932	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method performed by an access node can comprise receiving, from a core network (CN), resource requirements for uplink transmissions corresponding to downlink transmissions of data between the access node and a user device, receiving, from the CN, downlink data destined for the user device, determining, based on the received resource requirements, a schedule for the received downlink data and for expected uplink data corresponding to the received downlink data, and sending the schedule to the user device.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012679 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : METHOD AND SYSTEM FOR LINE-BY-LINE ONE DIMENSIONAL FABRIC INSPECTION

(51) International classification :G06T0007000000,
G06K0009620000,
G06K0009000000,
G06K0009460000,
G01N0021880000

(31) Priority Document No :62/723802

(32) Priority Date :28/08/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/IB2019/057031
Filing Date :21/08/2019

(87) International Publication No :WO 2020/044172

(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)USTER TECHNOLOGIES LTD.
Address of Applicant :Bareket 7, Industrial Park Caesarea,
P.O. Box 3047 38900 Caesaria Israel

(72)**Name of Inventor :**
1)COHEN, Shmuel

(57) Abstract :

System and method for on-loom fabric inspection includes an imaging device collecting images of a weaving area of a loom, a frame grabber receiving images of a fell-pick of and sending compact image data packages to an image processor. Irregularities may be detected by comparing a digital string representing the characteristic sequence of warp-risers and warp-sinkers along the fell-pick with a corresponding row (901) of required warp-risers and required warp-sinkers in a reference matrix (900) representing a required weaving pattern. The digital string may be a sequence of Boolean values.

No. of Pages : 20 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012682 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : TECHNIQUES FOR DATA-DRIVEN CORRELATION OF METRICS

(51) International classification	:G06F0011340000, G06F0003010000, G06F0016330000, G06N0020000000, H04W0004480000	(71) Name of Applicant : 1)ORACLE INTERNATIONAL CORPORATION Address of Applicant :500 Oracle Parkway M/S 50P7 Redwood Shores, California 94065 U.S.A.
(31) Priority Document No	:62/737518	(72) Name of Inventor :
(32) Priority Date	:27/09/2018	1)CHINTALAPATI, Renu
(33) Name of priority country	:U.S.A.	2)GUPTA, Manisha
(86) International Application No	:PCT/US2019/053576	3)BAJPAI, Ashlesh
Filing Date	:27/09/2019	4)GRANHOLM, David
(87) International Publication No	:WO 2020/069393	5)SCHMITZ, Stefan
(61) Patent of Addition to Application Number	:NA	6)CHAWLA, Naren
Filing Date	:NA	7)BEDIN, Matthew
(62) Divisional to Application Number	:NA	8)VIGEANT, Jacques
Filing Date	:NA	9)VENKATA, Ananth
		10)BALU, Rajesh
		11)AGRAWAL, Vikas

(57) Abstract :

Described herein are techniques for identifying highly relevant content for a user to view in the form of KPI cards and providing the relevant view to the user automatically or by suggestion. The KPIs of highest practical and statistical significance are provided when the user accesses the user interface. In some embodiments, when the user is viewing a KPI, other relevant KPIs may be provided for the user to view as suggestions. Further, in some embodiments, the user may be provided with the KPIs of significance based on anomaly detection, and the explanation for the anomaly as well as suggestions for remedying any issues may be provided to the user. The highly informational content can be surfaced through the use of the advanced machine learning algorithms described herein.

No. of Pages : 46 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012739 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SYNTHETIC METHODFOR THE PREPARATION OF AN ALKOXYMETHYLENE-BENZOYLACETONITRILE

(51) International classification :A61K0031415000,
C07D0231380000,
C07D0207040000,
C07D0215260000,
C07D0401100000

(31) Priority Document No :1815699.2

(32) Priority Date :26/09/2018

(33) Name of priority country :U.K.

(86) International Application No :PCT/GB2019/052720
Filing Date :26/09/2019

(87) International Publication No :WO 2020/065325

(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)MERO BIOPHARMA 1 LIMITED
Address of Applicant :1 Cavendish Place London W1G 0QF
U.K.

(72)Name of Inventor :
1)MEISENBACH, Mark
2)MARTIN, Benjamin
3)RONDE, Niek Johannes

(57) Abstract :

Provided is a process for preparing a compound of Formula A (Formula A) or a salt or solvate thereof, the process comprising the step of: a) Reacting the compound 1 (1) with a trialkyl orthoformate to provide a compound of Formula A or a salt or solvate thereof, wherein R is the alkyl moiety of the trialkyl orthoformate. Further provided is the compound 2 or a salt or solvate thereof. (2) The use of these compounds in the synthesis of 3-[5-Amino-4-(3- Cyanobenzoyl)-Pyrazol-1-yl]-N-Cyclopropyl-4-Methylbenzamide is also provided.

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012740 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : SIRPA BINDING PROTEINS AND METHODS OF USE THEREOF

(51) International classification	:C07K0016280000, G01N0033500000, A61K0039395000, C12Q0001688100, A61K0039000000	(71)Name of Applicant : 1)CELGENE CORPORATION Address of Applicant :86 Morris Avenue Summit, NJ 07901 U.S.A.
(31) Priority Document No	:62/737782	(72)Name of Inventor :
(32) Priority Date	:27/09/2018	1)ABBASIAN, Mahan
(33) Name of priority country	:U.S.A.	2)CHAN, Henry, H.
(86) International Application No	:PCT/US2019/052604	3)ESCOUBET, Laure
Filing Date	:24/09/2019	4)FENALTI, Gustavo
(87) International Publication No	:WO 2020/068752	5)HARIHARAN, Kandasamy
(61) Patent of Addition to Application Number	:NA	6)LEUNG, Monica, Wai Ling
Filing Date	:NA	7)MAVROMMATIS, Konstantinos
(62) Divisional to Application Number	:NA	8)MIKOLON, David, P.
Filing Date	:NA	9)RAYMON, Heather, K.
		10)SANTOS, Carlo, Steven
		11)SUN, Jeonghoon
		12)TROUT, Christina, Valerie

(57) Abstract :

Provided herein are compositions, methods and uses involving antibodies that specifically bind to signal regulatory protein-a (SIRPa) and modulate the activity of SIRPa.

No. of Pages : 319 No. of Claims : 205

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147012741 A

(19) INDIA

(22) Date of filing of Application :24/03/2021

(43) Publication Date : 02/04/2021

(54) Title of the invention : CYCLIC AMIDE INITIALIZED POLYETHERAMINE AND USES THEREOF

(51) International classification	:C08G0065325000, C10L0001140000, C10L0001198000, C09D0017000000, C10L0001160000	(71) Name of Applicant : 1)HUNTSMAN PETROCHEMICAL LLC Address of Applicant :10003 Woodloch Forest Dr. The Woodlands, Texas 77380 U.S.A.
(31) Priority Document No	:62/736124	(72) Name of Inventor :
(32) Priority Date	:25/09/2018	1)ZHAO, Haibo
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/043871	
Filing Date	:29/07/2019	
(87) International Publication No	:WO 2020/068262	
(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 polyetheramine produced from a cyclic amide initiator which is first alkoxyated and then reductively aminated to form the polyetheramine. The polyetheramine of the present disclosure may be used in a variety of applications, such as a raw material in the synthesis of a dispersant for use in an aqueous pigment dispersion or as a fuel additive in a hydrocarbon fuel composition.

No. of Pages : 35 No. of Claims : 20

CONTINUED TO PART- 2