



Controller General of Patents, Designs and Trademarks  
Department of Industrial Policy and Promotion  
Ministry of Commerce and Industry

### Application Details

APPLICATION NUMBER	202041041120
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/09/2020
APPLICANT NAME	1 . S.Deivasigamani 2 . Dr.B.Annapurna 3 . Raushan Kumar Singh 4 . Dr.G.Devadasu 5 . Dr.S.Vijayalakshmi 6 . Dr.C.Thanavathi 7 . Dr.UdaraYedukondalu 8 . Dr. I. D. Soubache 9 . Dr. H. Sudheer 10 . Dr. Capt. K. Sujatha 11 . Er. S. John Pimo
TITLE OF INVENTION	AN AUTOMATED AND INTEGRATED MOBILE APP FOR HANDLING ROAD ACCIDENT AND EMERGENCY SITUATION SMARTLY
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	deivasigamani@aimst.edu.my
ADDITIONAL-EMAIL (As Per Record)	nagu.sajana@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/10/2020

### Application Status

[View Documents](#)

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
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**FRIDAY**

दिनांक: 09/10/2020  
DATE: 09/10/2020

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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 01<sup>st</sup> 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.

**( Om Prakash Gupta )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

**9<sup>TH</sup> OCTOBER, 2020**

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**THE PATENT OFFICE  
KOLKATA, 09/10/2020**

**Address of the Patent Offices/Jurisdictions**

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

1	<p>Office of the Controller General of Patents, Designs &amp; Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: <a href="mailto:cgpdtm@nic.in">cgpdtm@nic.in</a></p>	4	<p>The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: <a href="mailto:chennai-patent@nic.in">chennai-patent@nic.in</a></p> <p>❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</p>
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: <a href="mailto:mumbai-patent@nic.in">mumbai-patent@nic.in</a></p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu &amp; 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: <a href="mailto:kolkata-patent@nic.in">kolkata-patent@nic.in</a></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 &amp; 28032253 Fax: (91)(11) 28034301 &amp; 28034302 E.mail: <a href="mailto:delhi-patent@nic.in">delhi-patent@nic.in</a></p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>		

Website: [www.ipindia.nic.in](http://www.ipindia.nic.in)

[www.patentoffice.nic.in](http://www.patentoffice.nic.in)

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

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

पेटेंट कार्यालय  
कोलकाता, दिनांक 09/10/2020

• कार्यालयों के क्षेत्राधिकार के पते

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

<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](http://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.

**(Om Prakash Gupta)**  
**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 18<sup>th</sup> months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

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

## **SPECIAL NOTICE**

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



## **Early Publication:**

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911033426 A

(19) INDIA

(22) Date of filing of Application :20/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A VERTICAL FORM-FILL-SEAL MACHINE FOR MAKING A PACKAGE FILLED WITH PRODUCT HAVING ANTI-COUNTERFEITING FEATURE

(51) International classification	:B31B0070810000, B65B0009200000, B65B0061180000, B29C0065000000, B31B0070000000	(71) <b>Name of Applicant :</b> <b>1)CHATURVEDI, ASHOK</b> Address of Applicant :305, Third Floor Bhanot Corner, Pamposh Enclave, GK-1 New Delhi Delhi India 110048 Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)CHATURVEDI, ASHOK</b>
(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 describes a vertical from fill seal machine for making a pouch having against counterfeiting. the machine comprises a packing substrate unwinder holding a flexible packing substrate web, a security strip assembly, a tube forming assembly, a hopper, and a horizontal sealer. The security strip assembly comprises a security strip unwinder , webs sealer unit and a web joint pressing unit. The security strip assembly makes a joining web by sealing a first overlapped area of flexible packing substrate web be sealing a first overlapped area of second longitudinal edge of the strip substrate web . The horizontal sealer seals bottom and top of the formed tube in the sequence after filling products through the hopper.

No. of Pages : 26 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911035609 A

(19) INDIA

(22) Date of filing of Application :04/09/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : APPARATUS, SYSTEM AND METHOD FOR CONTROLLING FLOW AND TEMPERATURE OF WATER

(51) International classification :F24D0019100000,  
E03B0007040000,  
F24D0017000000,  
E03C0001050000,  
B67D0001080000

(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)Pinglaksh Anveshnam Private Limited**  
Address of Applicant :Shop No. 254, Basement, Jail Land,  
Opp. Federal Bank, Sohna Chowk, Gurgaon-122001, Haryana,  
India. Haryana India

(72)Name of Inventor :  
**1)VASHISHT, Lalit**  
**2)SHARMA, Nirmal Kumar**  
**3)JHA, Ritesh Kumar**  
**4)DEBNATH, Umashankar**  
**5)VASHISHT, Manisha**

(57) Abstract :

An apparatus (100) for controlling flow and temperature of water includes a cold water line (106) with a cold water control unit (110); a hot water line (108) with a hot water control unit (112); a master control unit (114) operatively coupled to the cold water line (106) and the hot water line (108); and a drain pipe (116) operatively coupled with the master control unit (114), wherein the cold water control unit (110) and the hot water control unit (112) are configured to monitor and control flow of water, and the master control unit (114) is configured to mix hot water received from the hot water line (108) with the cold water received from the cold water line (106), such that the temperature and flow of the resultant mixture is at a desired temperature (Td) and desired flow (Fd) set by a user.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011000086 A

(19) INDIA

(22) Date of filing of Application :02/01/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IOT BASED AUTOMATIC IRRIGATION SYSTEM RUNNING BY SOLAR PANEL

(51) International classification	:A01G0025160000, G01N0033240000, A01G0027000000, A01G0025090000, B05B0012120000	(71) <b>Name of Applicant :</b> <b>1)Axis Institute of Technology &amp; Management</b> Address of Applicant :Axis Knowledge City, Hathipur, Rooma, NH-2, Milestone 478 Kanpur Uttar Pradesh India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sukhpreet Kaur</b>
(33) Name of priority country	:NA	<b>2)Prasoon Tiwari</b>
(86) International Application No	:NA	<b>3)Aman Kumar Singh</b>
Filing Date	:NA	<b>4)Pragati Singh</b>
(87) International Publication No	: NA	<b>5)Akash Yadav</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Nivedita Singh</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses an IoT (Internet of Things) based automatic irrigation system comprising: a water level sensor 16, a soil moisture sensor 12, a temperature and a humidity sensor 14, a nutrient sensor 18 mounted on the soil to sense the condition of the soil; a micro controller 20 which compare the value received by the sensors to the pre-requisite value defined by the user; a relay 22 turn on the motor 24 if the pre-requisite value is less than the value received by the sensors then relay 22 is turn on and a motor 24 is automatically started; a global system module 26 deliver message of the status of the motor to the user mobile; and a solar panel (30) to supply power to the micro controller (20) and relay (22).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011001781 A

(19) INDIA

(22) Date of filing of Application :15/01/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : HYBRID TREADMILL ELECTRIC SCOOTER

(51) International classification	:A63B0022020000, B62K0003000000, H02K0053000000, F03G0007080000, G04C0010000000	(71) <b>Name of Applicant :</b> <b>1)Axis Institute of Technology &amp; Management</b> Address of Applicant :Axis Knowledge City, Hathipur, Rooma, NH-2, Milestone 478 Kanpur Uttar Pradesh India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ms. Preeti Singh</b>
(33) Name of priority country	:NA	<b>2)Mr. Ashutosh Tiwari</b>
(86) International Application No	:NA	<b>3)Mr. Neeraj Kumar</b>
Filing Date	:NA	<b>4)Dr. Ashish Malik</b>
(87) International Publication 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 hybrid treadmill electric scooter (HTES) system and method having function of energy generation during aerobic paddling and treadmill walking, wherein when a user walking on the treadmill belt 28 pushed the treadmill belt backward with his feet which gives rotational signal to the dynamo 30 or doing paddling through hand on aerobic hand paddler 24, which also give a rotational signal to the dynamo 30, the shaft 78 rotates both generates mechanical energy which is converted into electrical energy via-dynamo 30, which can be further utilized for any productive purpose.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006287 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN EFFECTIVE TEACHER RATING SYSTEM

(51) International classification	:G09B0005140000, G09B0005000000, G06Q0050200000, G09B0007000000, G09B0007040000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Manikant roy</b>
(33) Name of priority country	:NA	<b>2)Rohit Kumar</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 :

An effective teaching rating system which consists of analysis of plurality of parameters including a) Course Type (Theory, Practical) b). Duration of Lecture c). Course offered for (UG /PG) d). Number of Student in the class e). Teacher Qualification f). Teacher experience g). Interaction by Student (e.g. asking Question) h). Interaction by teacher (e.g. giving short question in class i). teacher schedule j) student schedule.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006288 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PRE-TRIP CAR HEALTH MONITORING SYSTEM

(51) International classification :G07C0005080000,  
G06Q0010100000,  
B60C0023040000,  
G06Q0050220000,  
B60K0035000000

(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)Lovely Professional University**  
Address of Applicant :Lovely Professional University,  
Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India  
Punjab India

(72)Name of Inventor :  
**1)Dushyant Kumar Singh**  
**2)Kanwaljeet Singh**  
**3)Suman Lata Tripathi**  
**4)P.Raja**

(57) Abstract :

An automatic system to monitor the health of a car by performing regular checkup of the various car parameters such as temperature, fuel level, pressure in the tyre , engine efficiency etc. The information is displayed on the display read out screen installed in the garage so one can plan the trip accordingly. The system provides accurate decision of the car health and plan trip.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006289 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL CLOTHES WASHING BRUSH WITH DETERGENT HOLDER

(51) International classification	:A46B0011060000, A46B0011000000, D06F0039020000, A47K0007030000, A46B0013060000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Piyush Gulati</b>
(33) Name of priority country	:NA	<b>2)Dasari Narasimha</b>
(86) International Application No	:NA	<b>3)Mulagala Siva Shankar</b>
Filing Date	:NA	<b>4)Jaiinder Preet Singh</b>
(87) International Publication No	: NA	<b>5)Satnam Singh</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Manpreet Singh</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the clothes washing brush that consists of a cap (1), a soap liquid container (2), bristles (3), small pores from liquid container to bristles (4), liquid detergent (5), fine holes near the bristles (6), and an outer soft body (7). In the present disclosure, the liquid detergent (5) is supplied to the bristles (3) of washing brush on pressing the soft outer part of the body (7). In the disclosed invention, the brush bristles (3) are fitted around the holes (6) present at the bottom of body which allows the liquid detergent (5) to flow gently while washing clothes.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006290 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A METHOD AND TOOL FOR EFFICIENT PLANNING AND OVERSIGHT OF PROJECT

(51) International classification	:G06Q0010060000, G06Q0010040000, G06Q0010100000, H04W0016180000, H04L0009140000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Ashwani Kumar Tewari</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses an efficient method and tool for planning and oversight of project. The said method estimates in terms of effort, schedule and resource deployment. The method is suitable for planning of bespoke, maintenance and enhancement projects. The method may be implemented in to a software module which may be used as a tool for efficient planning and oversight of project.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006291 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A DEVICE FOR ACQUISITION OF VIBRO-ARTHRO-GRAPHIC SIGNAL

(51) International classification	:A61B0005145000, A61B0005145500, G06K0009320000, A61B0005000000, A61B0005050000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Krishna Sundeep Basavaraju</b>
(32) Priority Date	:NA	<b>2)Kirti Rawal</b>
(33) Name of priority country	:NA	<b>3)Gaurav Sethi</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 :

The present invention relates to a simple device for acquisition of vibro-arthro- graphic signals. The said device diagnose knee disorders in non-invasive manner. The device compares acquired signals with the data-set stored in the memory unit of the device using predened algorithms.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application  
No.202011006292 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date :  
09/10/2020

(54) Title of the invention : A NOVEL PROPULSIVE MESH SYSTEM FOR AIRCRAFT ENGINES TO AVOID BIRDS COLLISION

(51)  
International :F01D0025240000,A43B0013200000,B64D0027100000,B64D0013080000,F01M0013040000  
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)Lovely Professional  
University**

Address of Applicant  
:Lovely Professional  
University, Jalandhar-  
Delhi G.T. Road,  
Phagwara 144411,  
Punjab, India Punjab  
India

(72)**Name of Inventor :**  
**1)Jatinder Preet  
Singh**

**2)Syave Umesh  
3)Piyush Gulati  
4)Gurpreet Singh**

**Phull  
5)Manpreet Singh  
6)Satnam Singh  
7)Ankur Bahl**

(57) Abstract :

The present invention relates to a propulsive mesh for aircraft engines which consists of a rotating mesh (1), a compressor (2), a shaft (3), a combustion chamber (4), an engine casing (5), a turbine (6), and mesh propulsive blades (7). In the present disclosure, the mesh blades (7) are curved in such a way so as to increase inlet air pressure and are extended from engine casing (5) to provide more cross-sectional area of the inlet section to provide required propulsive thrust. Hence, the extra propulsive thrust produced by the rotating mesh (1) deflects the birds away from the aircraft.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006293 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : LABOUR MANAGEMENT SYSTEM

(51) International classification	:G06Q0050220000, G06F0016230000, A61B0005000000, G06Q0010060000, H04M0007000000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phawgara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Puneet Dhawan</b>
(33) Name of priority country	:NA	<b>2)Pankaj Kumar Singh</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 :

A novel system labour management for labor and work classification. The system is more advanced and provided real time connect of the laborers to the industry.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006294 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : RENTING FARMING EQUIPMENTS BASED ANDROID APPLICATION

(51) International classification	:G06Q0030060000, G06Q0010060000, G06Q0010000000, H04W0008180000, G06Q0030040000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Balraj Kumar</b>
(33) Name of priority country	:NA	<b>2)Jasmine Kaur</b>
(86) International Application No	:NA	<b>3)Kanika Sharma</b>
Filing Date	:NA	<b>4)Prince Arora</b>
(87) International Publication No	: NA	<b>5)Tarandeep Singh Walia</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is an android application for renting farming equipment<sup>TM</sup>s. The present invention includes bailment, owner, admin, android application, database and mobile phone. The bailment is the person who takes the farming equipments on rent and different kinds of farming equipments which are available to take on rent and select one of them according to the requirement. The admin access the database and verifies the login, price and the equipment available for rent from the owner<sup>TM</sup>s side is correct or not and provides approval after checking these factors. All the purchase by bailment from owner is done using android application which is easy to use and install on mobile phone, for both the bailment and the owner.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006295 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART SYSTEM FOR FINDING THE RIGHT KEY FOR LOCK

(51) International classification	:G07C0009000000, H04W0004800000, H04W0008000000, E05B0035000000, G08C0017020000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dushyant Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)Anil Kumar Rawat</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 :

A smart key finding system wherein the system includes RF module, BLE module and light system with battery to operate blink the light to identify the right key for the lock to be opened. The system requires minimum electricity consumption and can be installed in new and existing locking systems.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006296 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR MONITORING THE HYGIENE LEVEL OF FOOD-PROCESSING FACILITY

(51) International classification	:G06Q0010060000, G06N0020000000, H04N0007180000, H04W0004140000, G05B0023020000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Ramandeep Singh</b>
(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 :

Disclosed is a system for monitoring the hygiene level of food processing facility using artificial intelligence which includes a high definition camera, local data storage system, internet access for remote video access, video processing unit, database, graphical user interface, SMS (Short Message Service) and email service. The video processing unit consists of a graphics processing unit that processes a video to process all the steps to extract required features from the video and compare the same with the pre-stored video templates to calculate the deviation. If the number of violations by a particular facility exceeds the permissible limit, then the system automatically imposes financial or administrative fines on that particular facility or the organization representing the facility.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011006298 A

(19) INDIA

(22) Date of filing of Application :13/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NON-INVASIVE TECHNIQUE FOR FRUIT QUALITY DETECTION

(51) International classification	:B65D0085340000, G01N0033020000, A01H0006740000, A01H0005080000, A23B0007152000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab-144411, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dushyant Kumar Singh</b>
(32) Priority Date	:NA	<b>2)P. Raja</b>
(33) Name of priority country	:NA	<b>3)Himani Jerath</b>
(86) International Application No	:NA	<b>4)Kanwaljeet Singh</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 :

A non-invasive technique to determine the quality of the fruit based upon the ethylene and CO<sub>2</sub> gases emitted by the fruits to indicate the quality of the fruits whether it is ripened or about to decompose. The technique is proposed for fruits categorized as ethylene-producing such as apple, bananas, blueberries, mango, grapes, peaches, cantaloupe, kiwi, nectarine, pear.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008489 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL WIRELESS EXTERNAL HARD DRIVE

(51) International classification	:H04M0001725000, G06F0012086600, H04W0004800000, G06F0003035400, H04M0007000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rohit Sharma</b>
(33) Name of priority country	:NA	<b>2)Rajesh Singh</b>
(86) International Application No	:NA	<b>3)Piyush Gulati</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 :

The present invention relates to wireless external hard drive which consists of a hard drive (1), a battery (2), a control unit (3), and a Bluetooth device (4). The present disclosure is activated by a battery (2). In the present invention, the data of the hard drive (1) which is processed by the high speed control unit (3) is further shared and transferred through a Bluetooth device (4). Hence, the present invention eliminates the use of data cable for transferring the data.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008490 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROXIMITY DETECTION BASED DISPLAY DEVICE TO PREVENT UNAUTHORIZED INFORMATION ACCESS

(51) International classification	:B60R0025100000, A61G0012000000, H04W0012120000, H04L0029060000, B60R0025102000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Ramandeep SINGH</b>
(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 system with Ultrasonic Sensor Array Strips (USAS) monitors the surroundings of an authorized user to ensure there is no unauthorized user peering into the display screen/ display device to prevent theft of confidential information by clicking pictures or observing the information. This system provides solution by automatically detecting the presence on unauthorized person in the surrounding and sends an alert to the user or dim the brightness of the display device until it can be turned ON automatically by the authorized user.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008491 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART SYSTEM FOR CONSUMING ELECTRICITY IN HOSTELS

(51) International classification	:H04W0004120000, H04R0001020000, G06F0008380000, A63F0013850000, G06Q0030060000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phawgara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dushyant Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)P Raja</b>
(86) International Application No	:NA	<b>3)Himani Jerath</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 :

A smart mobile application based system which can be used for controlling the electricity in hostels. The system works via a unique code and Bluetooth operations.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008492 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL BIONANOCOMPOSITE MEMBRANE FOR EXTENDING SHELF LIFE OF PERSHABLES

(51) International classification	:C08J0005180000, A61K0008730000, A61Q0019000000, A61M0025010000, A61B0005040000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Madhuri Girdhar</b>
(33) Name of priority country	:NA	<b>2)Dr. Anand Mohan</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 :

A novel food packaging which consists of BNC synthesized utilizing MMT with zinc modification along with Xanthan gum having unique properties of high strength and flexibility for preserving the perishables during longer durations of transport.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008493 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART WATER WASTAGE MONITORING SYSTEM

(51) International classification	:G01N0033180000, G01M0003280000, G01F0023000000, G01M0003000000, G08G0001040000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dushyant Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)Kanwaljeet Singh</b>
(86) International Application No	:NA	<b>3)Adarsh Kumar</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 :

A water monitoring system which consists of plurality of sensors, processing unit, power unit and a communication unit for data transfer. The system works inhouse and checks time to time leakages and over flow of taps.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008494 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A FORMULATION FOR ANTHELMINTIC ACTIVITY

(51) International classification	:A61K0009280000, A61K0009200000, A61K0009480000, A61K0031365000, A61K0031000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Monica Gulati</b>
(33) Name of priority country	:NA	<b>2)Harish Rathee</b>
(86) International Application No	:NA	<b>3)Sachin Kumar Singh</b>
Filing Date	:NA	<b>4)Deepak Ghai</b>
(87) International Publication No	: NA	<b>5)Amit Sharma</b>
(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 enteric coated tablet of Centrathelum anthelminticum for anthelmintic activity. The tablet consists of extract of Centrathelum anthelminticum, microcrystalline cellulose, lactose, magnesium stearate, sodium starch glycolate, and dicalcium phosphate.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008496 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATIC DESCALING SYSTEM FOR DISTILLATION APPARATUS

(51) International classification	:B01D0005000000, B01D0001000000, C02F0001040000, B01D0003020000, B08B0009460000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Chirag Chopra</b>
(33) Name of priority country	:NA	<b>2)Reena Singh</b>
(86) International Application No	:NA	<b>3)Daljeet Singh Dhanjal</b>
Filing Date	:NA	<b>4)Rajesh Singh</b>
(87) International Publication 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 automatic descaling system for distillation apparatus which consists of a heating element (100), a boiling chamber (101), a reservoir for acid (102), a pump for acid (103), a reservoir for water (104), a pump for water (105), a battery (106), an Electronic control unit (107), a RTC counter (108), a relay 1 (110) for pump for acid, a relay 2 (111) for pump for water, a relay 3 (112) for outlet solenoid valve, a relay 4 (113) for heating element, an outlet solenoid valve (114), a condensing unit (109), a water level sensor (115), a pH sensor (116), conduction tubes (118). In the present disclosure, Electronic control unit (107) is the heart of the invention and different relays controls the functioning of the system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008497 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART OVERHEAD TANK WATER MONITORING SYSTEM

(51) International classification	:G01N0033180000, A01K0029000000, G06Q0050260000, H04W0004020000, G01F0023000000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dushyant Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)Kanwaljeet Singh</b>
(86) International Application No	:NA	<b>3)Adarsh Kumar</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 :

A water monitoring system which consists of plurality of sensors, processing unit, power unit and a communication unit for data transfer. The system works in correlation with local and central government officials if required.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011008498 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : E-JACKET SAFE ELECTRONIC JACKET

(51) International classification	:A41D0013005000, B60N0002560000, A43B0007040000, A47C0021040000, H01L0035000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Akash GUPTA</b>
(33) Name of priority country	:NA	<b>2)Sandeep KUMAR</b>
(86) International Application No	:NA	<b>3)Sahil GARG</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 :

The electronic safe jacket with perforated holes provides heat to the user to keep them warm during the extreme cold weather. The perforated holes provide even heating which keeps one warm. The temperature of the jacket is set with the help of Arduino controlled thermostat. The LCD display, displays the battery health and the temperature. This jacket operates by converting electrical energy into heat energy through a blower attached in the jacket.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012090 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A METHOD OF INCREASING HALF LIFE OF DRUGS

(51) International classification	:H04N0019610000, B01J0029890000, C07C0049403000, C07B0061000000, C01B0003220000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vivek Gupta</b>
(33) Name of priority country	:NA	<b>2)Jai Prakash Gupta</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 :

A method increasing the half life of drug which includes chemical synthesis method wherein the process is includes conversion of alcohol to chloride, conversion of ketone to alcohol and then dehydrogenation.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012091 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN ENERGY HARVESTING SHOES

(51) International classification	:G01C0022000000, H02N0002180000, A43B0003000000, H02J0007020000, H01L0041113000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)N.S.VISHNU</b>
(33) Name of priority country	:NA	<b>2)Priya VIRDI</b>
(86) International Application No	:NA	<b>3)Pushpendra Kumar PATERIYA</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 :

Disclosed is energy harvesting shoes which include piezoelectric transducers, solar panel, LilyPad Arduino, infrared sensor, pedometer, full wave rectifier, and battery. The present invention focuses on converting the various forms of energy into electrical energy and utilizes that for some daily needs such as mobile charging, obstacle detector for blind and pedometer to track the number of steps.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012092 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ORTHOGONALLY PLACED MIMO WITH CROSS POLARIZATION ANTENNAS FOR 4G LTE APPLICATIONS

(51) International classification	:H01Q0009040000, H04B0007080000, H01Q0021280000, H04B0007041300, H04B0017391000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Jalandhar-Delhi G.T. Road, Phagwara, Punjab-144 411, India. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mohd. Wasim</b>
(33) Name of priority country	:NA	<b>2)Ramandeep Singh</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 :

An antenna which is orthogonal placed MIMO structure that limits the size and compactness of devices, equipment, or products for 4G LTE MIMO communications. 1X4MIMO antenna design by FR-4 with the dielectric constant 4.5, Substrate thickness 1.6 mm and Loss tangent 0.018. The antenna operates in a multi-path and fading propagation environment for higher gain and wider bandwidth.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012093 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART FOOT MAT BASED HOME DOOR BELL SYSTEM

(51) International classification	:G06K0009000000, G06Q0010080000, G08B0003100000, G01G0019440000, G06F0021310000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Munish BHATIA</b>
(33) Name of priority country	:NA	<b>2)Ankush MANOCHA</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 :

Disclosed is a system for smart foot mat based home door bell which includes processor, Random Access Memory, battery, sensors, processing unit, and communication unit. The present invention uses Raspberry Pi v3 which is programmed with deep learning technology to formulate an individual specific model for the detection of authenticated and un-authenticated persons. The weight sensors sense the weight of a person, mapping data with trained model to detect if the individual standing on the mat is authentic or not and an electronic signal is transmitted to the connected doorbell through wireless communication. It eliminates the need of door bell switch as well as reduces the power consumption.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012094 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN INTELLIGENT ALERT SYSTEM TO PREVENT ACCIDENTS DURING FOG

(51) International classification :H04W0004020000,  
E01H0013000000,  
G08B0025010000,  
G06F0016290000,  
G08G0001090000

(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)Lovely Professional University**

Address of Applicant :Lovely Professional University,  
Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India  
Punjab India

(72)Name of Inventor :

**1)Rajesh Singh**

**2)Jatinder Pal Singh**

**3)Ravinder Pal Singh**

(57) Abstract :

The present invention relates to an intelligent alert system to prevent accidents during fog which consists of avert nodes (95), an accident avert gateway (96), a LoRa (long range) module, a cloud server (86). The present disclosure is installed in automobiles to avert series of secondary accidents occurring mostly during foggy weather and is capable of transmitting and receiving alert-cum-warning signals through LoRa (long range) module (123) upto the radius of 10 kilometres. Here, the alert signal(s) is sent by GPS sensor (98) in the form of geographical coordinates of spot of accident.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012095 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART SYSTEM TO DETERMINE THE DETERIORATION LEVEL IN EDIBLE OIL

(51) International classification	:F01N0011000000, E21B0049000000, A23D0009060000, E21B0047090000, C11B0005000000	(71) <b>Name of Applicant :</b> <b>1)lovely professional university</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankush MANOCHA</b>
(33) Name of priority country	:NA	<b>2)Munish BHATIA</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 :

Disclosed is a system to determine the deterioration level in edible oil in which sensing element includes the Raspberry Pi, is configured for two-time slots for daily estimation. It provides the real time information about the quality of the oil which uses by vendors to prepare the food items. It also facilitates to send notification to the quality assurance authority if the measured value of quality of edible oil is less than the threshold and upload these values to the cloud for future references.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012096 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : QUAD DRUG LOADER

(51) International classification	:H01L0021670000, A63B0071060000, G01N0013020000, B65B0039000000, G16H0020300000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Salman Khan</b>
(33) Name of priority country	:NA	<b>2)Cherry Bhargav</b>
(86) International Application No	:NA	<b>3)Abhishek Kumar</b>
Filing Date	:NA	<b>4)Amit Sachdeva</b>
(87) International Publication No	: NA	<b>5)Pardeep Kumar Sharma</b>
(61) Patent of Addition to Application Number	:NA	<b>6)RajKumar Sarma</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device to measure quantified liquids with plurality of cups and the brim has curved endings for automatically breaking the surface tension of the liquid for right quantity. The device is IOT enabled with plurality of sensors for identification of impurities in the liquid.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012097 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MECHANICAL FLUSHING SYSTEM TO REDUCE WATER CONSUMPTION

(51) International classification	:F16H0059020000, E03D0001140000, G11B0015675000, E03D0005100000, G05G0001060000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vijay Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)Chander Prakash</b>
(86) International Application No	:NA	<b>3)Rajeev Rathi</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 :

The present invention relates to mechanical flushing system which consists of a lever /knob (1), a connector (2), a pinion (3), a rack (4), a spring (5), a pumping system (6), a pipe (7), a toilet seat (8), and a cistern (9). In the present disclosure, when the lever/ knob (1) is pressed downward to flush the water, connectors (2) move upward supplying the motion to pinion (3) which starts rotating in clockwise direction and rack (4) lifts the pump as the required/desired level. In the present disclosure, water is discharged for flushing as per the mode of selection of lever movement.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011015429 A

(19) INDIA

(22) Date of filing of Application :08/04/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM FOR CREATING AND ANALYZING AN INTERACTION NETWORK

(51) International classification	:G06Q0050000000, H04L0029080000, H04W0004200000, G06F0016280000, H04W0060000000	(71)Name of Applicant : <b>1)Atul Srivastava</b> Address of Applicant :314/A, AB Nagar, Unnao, UP Uttar Pradesh India <b>2)Anuradha Pillai</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Atul Srivastava</b>
(33) Name of priority country	:NA	<b>2)Anuradha Pillai</b>
(86) International Application No	:NA	<b>3)Deepika Punj</b>
Filing Date	:NA	<b>4)Ashutosh Dixit</b>
(87) International Publication 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 (300) and a system (100) for generating an interaction network of web-pages using a focused web-crawler are disclosed. The method (300) may include extracting (302) a seed URL of a web-page associated with a seed user, wherein the web-page is a social-network web-page, and wherein the web-page comprises a plurality of secondary URLs of secondary web-pages associated with secondary users. The method (300) may further include extracting (304) the plurality of secondary URLs associated with the web-page associated with the seed user, and identifying (306) one or more relevant secondary URLs from the plurality of secondary URLs. The method (300) may further include generating (308) a focussed interaction network of web-pages, using the identified one or more relevant secondary URLs from the plurality of secondary URLs.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011015843 A

(19) INDIA

(22) Date of filing of Application :12/04/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PERSONAL HEALTH RECORD AND MANAGEMENT SYSTEM 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)DRCFO ADVISORY SERVICES PRIVATE LIMITED**  
Address of Applicant :C-5, KK Apartment, Dalibagh,  
Lucknow, Uttar Pradesh, India Uttar Pradesh India

(72)**Name of Inventor :**  
**1)KUMAR, Akhil**  
**2)SRIVASTAVA, Vartika**

(57) Abstract :

The invention relates to a Personal Health Record and Management System for storage, sorting and analyzing the data/information of health records of a user in scientific manner. The system comprises of input and output medium (I/O), storage medium, and central information server (CIS).The system is capable of being analyzed and managed by the user and the user can change health behaviors, treatments and diet based on such analysis on real time basis. The system is secure, user-friendly, scientific and cost effective. The system generates appointment alarms, and warning alarms in case of any mismatch in the latest health behaviour. The invention also relates to a method of operating the system of the present invention.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011022634 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : TRANSMUCOSAL DOSAGE FORMS OF REMDESIVIR

(51) International classification	:A61K0009480000, A61K0009200000, C07D0401120000, A61K0031704800, A61K0031000000	(71) <b>Name of Applicant :</b> <b>1)Jubilant Generics Limited</b> Address of Applicant :Plot I A Sector 16A Noida UP India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NANDI, Indranil</b>
(33) Name of priority country	:NA	<b>2)JAIN, Anil</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 :

Disclosed herein are the sublingual pharmaceutical compositions comprising remdesivir or its pharmaceutically acceptable salts or solvates thereof. The present invention also relates to a process for preparing sublingual pharmaceutical compositions comprising remdesivir or its pharmaceutically acceptable salts or solvates thereof. Compositions of remdesivir prepared as per present invention are able to increase bioavailability by avoiding first-pass metabolism. The compositions of remdesivir prepared as per present invention are useful in the treatment of viral infections including coronavirus infection (COVID-19). The compositions of remdesivir prepared as per present invention exhibit desired pharmaceutical technical attributes such as pH, assay, related substance, disintegration and dissolution.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023764 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL TRIAZOLE DERIVTIVES FOR ANTI PROSTATE CANCER AGENTS AND PROCESS THEREOF

(51) International classification	:C07D0249080000, G01N0033500000, C07D0233560000, C08K0005000000, C07D0207452000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Paranjeet Kaur</b>
(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 process of making triazole derivatives wherein the process consists of reaction of malonic and and benaldehyde derivative to give cinnamic acid derivative which reacts with hydrazone intermediate in presence of coupling agents to give (E)-3-(3,4-substituted phenyl)-5-(4-substituted styryl)-1,2,4-triazole. The said compounds is a result of docking studies done.

No. of Pages : 26 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023766 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL LIPOSOMAL FORMULATION OF SEMECARPUS ANACARDIUM AND PROCES THERE OF

(51) International classification	:A61K0009127000, C11D0011000000, C11D0003360000, A61K0047240000, C23C0022180000	(71)Name of Applicant : <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional Unievrsity Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Manish Vyas</b>
(33) Name of priority country	:NA	<b>2)Dr. Gopal Lal Khatik</b>
(86) International Application No	:NA	<b>3)Dr Kamal Dua</b>
Filing Date	:NA	<b>4)Dr Saurabh Satija</b>
(87) International Publication No	: NA	<b>5)Dr Navneet Khurana</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr Sanjeev Sahu</b>
Filing Date	:NA	<b>7)Geeta Verma</b>
(62) Divisional to Application Number	:NA	<b>8)Dr. Meenu Mehta</b>
Filing Date	:NA	

(57) Abstract :

A process of making liposomes of Semecarpus anacardium wherein the process comprises of extraction of compounds in the organic solvent, the addition of soya lecithin: cholesterol on mild heating, the addition of phosphate buffer, fast agitation and storage.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023769 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION OF CHENOPODIUM ALBUM FOR ANTHELMINTIC ACTIVITY

(51) International classification	:A61K0009000000, A61K0008970000, A01N0065000000, A61K0009140000, A61K0036899000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Ashish Suttee</b>
(33) Name of priority country	:NA	<b>2)Neeraj Choudhary</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 :

A novel formulation of Chenopodium album wherein the formulation consists of preparation of plant extract in an organic solvent, identifying the contents and using the extract as such for anthelmintic activity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023770 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL HERBAL LOZENGES FOR EMESIS IN EARLY PREGNANCY AND PROCESS THEREOF

(51) International classification	:A61K0009000000, A61K0009140000, C03C0025260000, A61K0031137000, A61K0031440000	(71)Name of Applicant : <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Deepak Arora</b>
(32) Priority Date	:NA	<b>2)Dr. Saurabh Singh</b>
(33) Name of priority country	:NA	<b>3)Mr. Dileep Singh Bhagel</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 :

A lozenge formulation for treating nausea in pregnant women wherein the formulation consists of dried residue of Madhiphal rasayan, a binder, an absorbent, a diluent. The formulation is an improvement in the traditional formulation of Madhiphal rasayan.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023771 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION FOR PREPARATION OF COPPER NANOPARTICLES

(51) International classification	:A61K0036470000, A61K0036480000, A61K0036896200, B22F0009240000, A61K0008970000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT Phagwara Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Saurabh Singh</b>
(32) Priority Date	:NA	<b>2)Dr. Sachin Kumar Singh</b>
(33) Name of priority country	:NA	<b>3)Mr. Dileep Singh</b>
(86) International Application No	:NA	<b>4)Dr. Bimlesh Kumar</b>
Filing Date	:NA	<b>5)Dr. Narendra Kumar Pandey</b>
(87) International Publication No	: NA	<b>6)Ms. Barinder Kaur</b>
(61) Patent of Addition to Application Number	:NA	<b>7)Dr. Monica Gulati</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel formulation for antidiabetic activity wherein the formulation consists of copper nanoparticles, aqueous extracts of Trigonella foenum seeds, aqueous extracts of Allium sativum bulb, aqueous extracts of Aloe vera leaves, aqueous extracts of Phyllanthus niruri leaves.

No. of Pages : 21 No. of Claims : 2



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023772 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION OF OPERCULINA TURPETHUM FOR ANTHELMINTIC ACTIVITY

(51) International classification	:A61K0008970000, A61K0009140000, A01N0065000000, G09F0003000000, A61K0036230000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Ashish Suttee</b>
(33) Name of priority country	:NA	<b>2)Neeraj Choudhary</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 :

A novel formulation of Operculina turpethum wherein the formulation consists of preparation of plant extract in an organic solvent, identifying the contents and using the extract as such for anthelmintic activity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023773 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL PROCESS OF MAKING SILVER NANOPARTICLES USING ELAEAGNUS CONFERTA ROXB SEEDS

(51) International classification	:B22F0009240000, A61K0008490000, A61K0036185000, B82Y0030000000, B22F0001000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Bhupinder Kapoor</b>
(33) Name of priority country	:NA	<b>2)Mukta Gupta</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 :

A process preparing Silver nanoparticles using Elaeagnus conferta roxb seeds extract. The said nanoparticles are used for anti bacterial activity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011024702 A

(19) INDIA

(22) Date of filing of Application :12/06/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A CUSTOMIZED ADD-ON DEVICE FOR HAND WASH DISPENSING UNITS FOR BETTER HYGIENE

(51) International classification	:A47K0005120000, G08B0021240000, E03C0001046000, E03C0001050000, A47K0007030000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :: Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Lovi Raj Gupta</b>
(33) Name of priority country	:NA	<b>2)Rajesh Singh</b>
(86) International Application No	:NA	<b>3)Anita Gehlot</b>
Filing Date	:NA	<b>4)Mandeep Singh</b>
(87) International Publication No	: NA	<b>5)Gaurav Bhandari</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Prabin Kumar Das</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A customized add-on device attached to the handwash/liquid soap dispensing unit , with a pre-defined timer unit set as per the standards of WHO for hygienic hand washing system. The add-on device plays a customized music/jingle for a predefined duration to motivate the user to rub the soap in their hands thoroughly as per the WHO 20+ sec handwash standard. The add-on device connects to the user<sup>TM</sup>s mobile phone through WiFi communication . The add-on device is designed of Variant 1(without microcontroller) and Variant 2(with microcontroller). A customized mobile application installed in the user<sup>TM</sup>s mobile phone connects to the device to play the user<sup>TM</sup>s customized music while rubbing their hands with soap and wash them in running tap water. The mobile application installed in the mobile generates alerts to remind the user to wash their hands at regular time interval to maintain hygiene.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011028932 A

(19) INDIA

(22) Date of filing of Application :07/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CHEAP PORTABLE PERC MENTOR

(51) International classification	:A61B0006000000, A61B0090000000, G09B0023280000, A61B0017280000, H01B0001220000	(71)Name of Applicant : <b>1)Dr(Lt Col) Abhishek Kumar Shukla</b> Address of Applicant :P-97 Anuj Vihar, Shankar Vihar, Delhi Cantt, New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr(Lt Col) Abhishek Kumar Shukla</b>
(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 :

Percutaneous Nephrolithotomy (PCNL) is a complex procedure required for renal stone surgery. It is also one of the most common surgeries performed by the young surgeons. If the approach is not correct it leads to complications like bleeding and injury to kidney. Training on live patients are ethically not correct as one mistake can lead to severe complication. Also repeated firing of C-Arm exposes OT crowd to radiation. The simulators available are either with C-Arm (risk of radiation exposure) or without C-Arm. These simulators are very costly, bulky and limited by there availability. The cheap portable perc mentor proposed here is inexpensive, radiation free, very light and portable. This has different calyceal models simulating variable anatomy as in real situation with simultaneous direct visualisation of the procedure, and provision of placing the guidewire.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029286 A

(19) INDIA

(22) Date of filing of Application :10/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR THE PREPARATION OF REVEFENACIN, ITS SALTS AND SOLID FORMS THEREOF

(51) International classification	:A61K0009000000, A61K0009160000, A61K0031506000, A61K0047120000, A61K0009060000	(71) <b>Name of Applicant :</b> <b>1)Mankind Pharma Ltd.</b> Address of Applicant :208, Okhla Industrial Estate Phase III New Delhi India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHAVSAR, Jigar</b>
(33) Name of priority country	:NA	<b>2)BHASKAR, Bhuwan</b>
(86) International Application No	:NA	<b>3)BANSAL, Amit</b>
Filing Date	:NA	<b>4)KUMAR, Anil</b>
(87) International Publication 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 for the preparation of revefenacin or pharmaceutically acceptable salt thereof. Present invention further relates to a pure and a stable solid forms of revefenacin or its salts, process for the preparation and composition thereof, wherein said solid form is selected from crystalline, amorphous, co-crystals and crystalline solvates of revefenacin. The present invention also provides pharmaceutical compositions comprising the crystalline revefenacin or prepared using the crystalline revefenacin; processes and intermediates for preparing the crystalline revefenacin thereof.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029885 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL FORMULATION CONTAINING -ORYZANOL AND PHENYTOIN FOR BETTER MANAGEMENT OF EPILEPSY

(51) International classification	:A23L0033105000, A01K0067027000, A61K0009200000, B01L0003000000, A61K0008630000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely professional university Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Amit Mittal</b>
(33) Name of priority country	:NA	<b>2)Dr. Manish Vyas</b>
(86) International Application No	:NA	<b>3)Dr. Sachin Kumar Singh</b>
Filing Date	:NA	<b>4)Sonali Bajaj</b>
(87) International Publication No	: NA	<b>5)Gulshan Kumar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr. Navneet Khurana</b>
Filing Date	:NA	<b>7)Neha Sharma</b>
(62) Divisional to Application Number	:NA	<b>8)Pushpendra Kumar</b>
Filing Date	:NA	

(57) Abstract :

A cost effective novel formulation of oryzanol for the treatment of epilepsy. The animal model studies reveal the effectiveness of the said formulation. The said treatment given provides effective results and can be administered orally.

No. of Pages : 30 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029886 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATIC SENSOR BASED LOW COST HAND WASHING SYSTEM

(51) International classification	:E03C0001050000, E03B0011120000, G08B0021240000, F04D0013060000, C02F0001467000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gaurav Bhandari</b>
(33) Name of priority country	:NA	<b>2)Mandeep Singh</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 :

The present invention relates to an automatic sensor based low cost hand washing system which consists of main water tank above roof (1), water pipe line (2), AC power source (3), Power cord (4), Water tap ( remain open always) (5), Water sink( wash basin) (6), Intermediate water tank (7), Float valve (8), Sensor and control circuit (10), Water pump (11). The present disclosure provides touch less hand washing system in which when a foot is placed in front of the sensor it switches the power on and activates the system.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029887 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL NANOSUSPENSION OF GLIMEPIRIDE

(51) International classification	:A61K0031640000, A61K0047260000, H01L0023532000, A61K0047100000, A61K0047180000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely professional university Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sujit Bose</b>
(33) Name of priority country	:NA	<b>2)Vijay Mishra</b>
(86) International Application No	:NA	<b>3)Pooja Sharma</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 :

A novel nanoformulation of glimepiride with polymers and surfactant. The said formulation is easy to make, industrially feasible and effective for diabetic patients.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029888 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A DEVICE FOR OPENING MOUTH CAVITY

(51) International classification	:A63B0023030000, H01L0049020000, A61K0009200000, A61C0005900000, A01K0015020000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Dr. Reema Rasotra</b>
(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 cost effective exercising device for mouth opening for patients of lock jaw. The device come in varied colours and sizes to appeal the patients of all ages. The device is very effective for patients suffering from mouth injuries or mouth diseases.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029890 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL CERVICAL PILLOW

(51) International classification	:A47G0009100000, A61G0007070000, H04L0029080000, G09B0005000000, A61K0009000000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phawgara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Dr. Reema Rasotra</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adjustable bilayer pillow with plurality of sensors for giving comfort to cervical patients with adjustable height. The pillow is cost effective and customer friendly. The pillow is available in various sizes and colors to appeal the patients of all age groups.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029891 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN IOT BASED SMART FEEDER FOR INFANTS

(51) International classification	:A61J0009000000, A61B0005110000, A47D0013080000, G16H0050200000, H04W0004029000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Veerawali Behal</b>
(33) Name of priority country	:NA	<b>2)Munish Bhatia</b>
(86) International Application No	:NA	<b>3)Ankush Manocha</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 :

An IoT based smart feeder system for infants with a detachable bottom embedded with various sensors to analyses the quality of the milk and minimizes the feeding difficulties of a care giver. The main aspect of this system is to monitor the baby<sup>TM</sup>s feeding requirements at remote by utilizing Fog centric IoT technology and data is stored in the cloud server for further examining. An android based mobile application provides an alert to feed the infant at regular intervals and provide the results of the various parameters of the milk or if the milk is unsafe for consumption. An alert is generated if the milk is unsafe for consumption and the parents can view the baby feeding pattern.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029892 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION OF METOROLOL AND AZILISARTAN USING MULTIPLE UNIT PELLET SYSTEM

(51) International classification	:A61K0009200000, A61K0031138000, A61K0045060000, A61K0031425000, C02F0001760000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nikhil Gupta</b>
(33) Name of priority country	:NA	<b>2)Dr. Sheetu</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 :

A novel bilayer system for drug release the system has S(-) metoprolol and azilisartan in combination. S(-) Metoprolol is for controlled release and azilisartan is for immediate release. The said combination therapy is advantageous over single dose and better results are obtained.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011029893 A

(19) INDIA

(22) Date of filing of Application :14/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A WEARBLE STRAP BAND FOR IMPROVED HEARING ASSISTANCE

(51) International classification	:G09B0021000000, H04M0019040000, H04W0004020000, H04W0004900000, A61G0005120000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sorabh Lakhnpal</b>
(33) Name of priority country	:NA	<b>2)Mandeep Singh</b>
(86) International Application No	:NA	<b>3)Ruhul Amin Choudhury</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 :

A wearable device designed with a display screen to assist people with hearing disability with a method of recognizing the speech by providing alerts through vibration to the user by displaying in the text of the receiving speech directed at the hearing disabled user. The device comes with an ON/OFF power button to save the power consumption. The device is designed to assist people with hearing disability with improved alertness to react towards the oral communication.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030073 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SOLID DISPERSION PELLETS OF SIMVASTATIN

(51) International classification	:A61K0009140000, A61K0009160000, A61K0031704000, H01M0010054000, B01F0003220000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nikhil Saxena</b>
(33) Name of priority country	:NA	<b>2)Rakesh Kumar Sharma</b>
(86) International Application No	:NA	<b>3)Narendra Kumar Pandey</b>
Filing Date	:NA	<b>4)Dr. Amit Mittal</b>
(87) International Publication No	: NA	<b>5)Dr. Sheetu</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel solid dispersion pellet system which solves the solubility and dissolution rate problem of simvastatin. The said system is cost effective and industry scalable.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030075 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION FOR PARKINSON DISEASE

(51) International classification	:A61K0009080000, A61K0031445800, A61K0009200000, A61K0047440000, A61K0009500000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rakesh Kumar Sharma</b>
(33) Name of priority country	:NA	<b>2)Dr Pankaj Wadhwa</b>
(86) International Application No	:NA	<b>3)Narendra Kumar Pandey</b>
Filing Date	:NA	<b>4)Dr. Amit Mittal</b>
(87) International Publication No	: NA	<b>5)Dr. Sheetu</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel formulation for the treatment of Parkinson disease using selegiline and bhrhami in a specific ratio. The said system is cost effective and industry scalable. The said formulation has extended release profile for prolonged effect.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030076 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SOLID DISPERSION PELLETS OF SIMVASTATIN

(51) International classification	:A61K0009140000, A61K0009160000, A61K0031704000, H01M0010054000, B01F0003220000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nikhil Saxena</b>
(33) Name of priority country	:NA	<b>2)Rakesh Kumar Sharma</b>
(86) International Application No	:NA	<b>3)Narendra Kumar Pandey</b>
Filing Date	:NA	<b>4)Dr. Amit Mittal</b>
(87) International Publication No	: NA	<b>5)Dr. Sheetu</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel solid dispersion pellet system which solves the solubility and dissolution rate problem of simvastatin. The said system is cost effective and industry scalable.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030080 A

(19) INDIA

(22) Date of filing of Application :15/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A GSM BASED SURVEILLANCE ROBOT FOR DETECTION OF HAZARDOUS GASES AND METALS IN MINES

(51) International classification	:G08G0001096800, G08B0021140000, G08B0021120000, H04M0001725000, B60N0002020000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Lavish Kansal</b>
(33) Name of priority country	:NA	<b>2)Gurjot Singh Gaba</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 :

The present invention is a surveillance robot to detect hazardous gases and harmful metals in the grounds of the mine in real-time. The vehicle navigation is controlled by the user through DTMF technology using a mobile handset to operate remotely. The GSM module provides alert to the user<sup>TM</sup>s mobile phone through a notification upon detection of any harmful gases or metals underneath the surface of the mines. The system provides live-feeds of the audio-video of the mines to the user through GSM module.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030354 A

(19) INDIA

(22) Date of filing of Application :16/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR COMMUNAL VIOLENCE DETECTION USING SOCIAL NETWORKS BASED COMMUNITY DETECTION

(51) International classification	:G06Q0050260000, G06Q0050000000, G08B0027000000, H04M0011040000, G08B0025100000	(71)Name of Applicant : <b>1)Priyanka Gupta</b> Address of Applicant :Assistant Professor, Department of Computer Science and Technology, Manav Rachna University, Faridabad, Harayana, 121003, India Haryana India <b>2)Hardeo Kumar Thakur</b> <b>3)Binu Dennis</b> <b>4)Rajakumar B. R.</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Priyanka Gupta</b> <b>2)Hardeo Kumar Thakur</b> <b>3)Binu Dennis</b> <b>4)Rajakumar B. R.</b>
(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 mainly focused on detecting the communal violence which occurs among the group of community people in social networks. This system of the present invention comprises the smart informer and slave devices which transfer the information to the nearby police station. Nowadays, many crimes are occurring through social networks. Some communal groups of people share violence information through social media. Here, the smart informer is used to detect the communal violence conversation and pass the information to the police station via slave devices. The dynamic watch detects the conversation and checks the previous similarity cases for verify the violence. If the communal violence is detected, then the dynamic watch gives the red alert. So the police can easily stop communal violence before it happens. [To be published with Figure.1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031137 A

(19) INDIA

(22) Date of filing of Application :21/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL COMPOSITION TO PROMOTE GROWTH OF SORGHUM PLANTS UNDER SALINITY STRESS

(51) International classification	:C05F0011080000, C12P0013000000, A01N0065000000, C05G0003000000, C05F0011100000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Prasann Kumar</b>
(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 :

Disclosed is a composition that includes the treatment of saline soil with mycorrhizae before Sorghum plantation followed by foliar spray of putrescine in every fifteen days reduces the salinity stress and augments plant growth. The process of using of mycorrhizae and putrescine is disclosed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031138 A

(19) INDIA

(22) Date of filing of Application :21/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATIC UV RACKET FOR SANITIZATION

(51) International classification	:G06F0003160000, G06F0001320300, A61L0002200000, G06F0003060000, A47L0011400000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mandeep Singh</b>
(33) Name of priority country	:NA	<b>2)Ruhul Amin Choudhury</b>
(86) International Application No	:NA	<b>3)Sorabh Lakhnupal</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 :

A fully automatic portable UV racket to sanitize an objects or the surrounding exposed to the people in day to day activities. This device prevents the spread of air borne viruses such as COVID-19. The distance measurement sensing module sets off an alert if a human is detected closer to the device and turns off automatically. The device comes with standby time of 18 mins to sanitize the area.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031141 A

(19) INDIA

(22) Date of filing of Application :21/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A GSM BASED INTELLIGENT SECURITY SYSTEM FOR LOCKERS

(51) International classification	:G06F0021310000, G08B0013196000, A63F0013350000, G06Q0020420000, G06F0021550000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Lavish Kansal</b> <b>2)Gurjot Singh Gaba</b>
(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 GSM based system to prevent theft in the bank lockers through a 2-tier password protection. The system provided password protection of 2-tier verification and alerts to the remotes user through sms. The system detects the locker activity through IR sensor and generate alert to the user in case of any unusual activity.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031142 A

(19) INDIA

(22) Date of filing of Application :21/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL NANOMICELLES FORMULATION OF ROTENONE

(51) International classification	:A61K0009107000, A61K0047100000, H01L0029778000, C07D0493140000, A61K0031440000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Manish Vyas</b>
(33) Name of priority country	:NA	<b>2)Dr. Monica Gulati</b>
(86) International Application No	:NA	<b>3)Vishu Verma</b>
Filing Date	:NA	<b>4)Dr. Navneet Khurana</b>
(87) International Publication No	: NA	<b>5)Neha Sharma</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr. Gopal Lal Khatik</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A nanomicelles formulation of rotenone for Parkinson disease. The process is easy to scale up and industrially feasible. The technology is cost effective.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031508 A

(19) INDIA

(22) Date of filing of Application :23/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN IOT BASED SYSTEM TO REGULATE VEHICLE MOVEMENT DURING ON-ROAD TRAFFIC CONGESTION

(51) International classification	:H04W0076500000, H04W0004900000, H04L0029080000, G08G0001010000, G08G0001087000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajni</b>
(33) Name of priority country	:NA	<b>2)Heena Wadhwa</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 :

An Iot based system to control the traffic congestion and regulate vehicle movement on road through and re-route the vehicles in emergency through IoT based communication. The cloud server stores the data through fog nodes and establishes communication to the user in emergency.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031509 A

(19) INDIA

(22) Date of filing of Application :23/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A REAL TIME BODY TEMPERATURE DETECTION SYSTEM AT PUBLIC PLACES

(51) International classification	:A61B0005010000, H01L0027320000, F21V0033000000, F02D0041280000, G06Q0050100000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mandeep Singh</b>
(33) Name of priority country	:NA	<b>2)Ruhul Amin Choudhury</b>
(86) International Application No	:NA	<b>3)Manish Kotni</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 :

The present invention relates to a body temperature detection system at public places which consists of a microcontroller or microprocessor with PIR Sensor, laser light, RGB LED light, OLED display, speaker, temperature sensor, and camera, host server with Wi-Fi enabled feature. In the present invention, the suspected person with some kind of infection can be separated and the list of such people can be shared with nearby health unit for adequate testing.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031510 A

(19) INDIA

(22) Date of filing of Application :23/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : OBSTACLE DETECTION SMART WALKING STICK FOR VISUALLY IMPAIRED

(51) International classification	:G06F0001160000, A61H0003060000, A45B0003000000, B60Q0009000000, A45B0009000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Lavish Kansal</b>
(33) Name of priority country	:NA	<b>2)Gurjot Singh Gaba</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 :

A real time obstacle detection smart walking stick guides the visually impaired people to improve their mobility by detecting obstacles such as puddle of water, pits of various depths, staircase for climbing up/down and any objects in mobility which come across the user. The device upon detection of any obstacle generates an alert to the through headphone through Bluetooth. In case the user forgets to wear the headphone, generates an alert through the in-built speakers in the smart stick. The device comes with a power button to control the operation along with various sensors for detection. A rechargeable battery provides power supply and improved energy efficiency.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031511 A

(19) INDIA

(22) Date of filing of Application :23/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL LIPIDBASED GEL FORMULATION OF 5, 7 DI-HYDROXY FLAVONE AND BIFIDOBACTERIUM

(51) International classification	:A61K0035745000, A61K0009140000, A61K0009000000, A61K0047180000, C10L0001220000	(71)Name of Applicant : <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phawgara Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr Rahul Singh</b>
(32) Priority Date	:NA	<b>2)Dr Sachin Kumar Singh</b>
(33) Name of priority country	:NA	<b>3)Dr. Sheetu</b>
(86) International Application No	:NA	<b>4)Rohit Vij</b>
Filing Date	:NA	<b>5)Shaik Rahana Parveen</b>
(87) International Publication 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 cost effective novel formulation of 5, 7 di-hydroxy flavone and bifidobacterium infantis for the treatment of psoriasis. The formulation is a hydrogel with stability upto 12 months.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032617 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A WRISTBAND FOR DRAWING MATHEMATICAL SHAPES

(51) International classification	:A44C0005000000, B43L0009000000, B43L0013200000, G01N0023046000, A61B0005040400	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Pardeep Kumar Sharma</b>
(33) Name of priority country	:NA	<b>2)Cherry Bhargava</b>
(86) International Application No	:NA	<b>3)Rajkumar Sarma</b>
Filing Date	:NA	<b>4)Amit Sachdeva</b>
(87) International Publication No	: NA	<b>5)Abhishek Kumar</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Salman Khan</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a wearable band for drawing mathematical shapes which consists of a mathematical scale ranging from 0-15cm wherein the predefined holes are provided at the distance of 0.5cm. In the present disclosure, the starting/reference point marked in the band acts as a needle of a compass for drawing of mathematical shapes and the circle of any radii ranging from 0.5cm to 15cm can be drawn.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032619 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION OF BERBERINE HCL FOR COLON SPECIFIC DELIVERY

(51) International classification	:A61K0031437500, A61K0009280000, A61K0009000000, A61K0009200000, A61K0009500000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phawgara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Surajpal Verma</b>
(33) Name of priority country	:NA	<b>2)Gautam Kumar</b>
(86) International Application No	:NA	<b>3)Pankaj Wadhwa</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 :

The purpose of the present investigation is to prepare formulation containing grafted copolymer and coating of eudragit for the delivery of Berberine HCl in the colon. In this delivery system, pH sensitive eudragit coating of solid dosage form of drug Berberine HCL will be carried out to prevent the drug from first pass metabolism and degradation in upper part of the GIT. The said formulation is to treat IBD by colon specific delivery, so that maximum concentration of the Berberine HCl reaches to the colon and increases the residence time of the drug there.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032621 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART UV SANITIZING ROBOT FOR COVID-19 ISOLATION WARD

(51) International classification	:G06Q0020320000, A61L0002100000, H04M0001210000, G06Q0010100000, A61L0009200000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :: Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mandeep Singh</b>
(33) Name of priority country	:NA	<b>2)Ruhul Amin Choudhury</b>
(86) International Application No	:NA	<b>3)Anant Rajput</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 :

A smart UV sanitizing robot designed specifically for sterilization of the COVID-19 isolation wards or the emergency rooms in the hospitals to prevent the spread of the virus. This device is operates remotely through wireless communication and the real-time video is displayed in the user<sup>TM</sup>s mobile phone. The power supply through rechargeable batteries of 80Ah and 12 V which feed the bot as well as the UV-C source.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032622 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A VIRUS DISINFECTING SYSTEM FOR FOOD PROCESSING PLANT

(51) International classification	:A23B0007157000, G06F0008000000, A23B0004005000, E04H0005020000, A61L0002100000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Gagandeep Singh Raheja</b>
(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 includes the development of a plant layout which is helpful in curbing out the infecting particles from the vicinity of complete plant process and delivery. In this specific arrangements are designed for the entry of the food material from the incoming truck and then stacking out the material inside the trolleys passing it through this disinfecting inlet pathway and then bringing in the material for food processing. Dedicated air handling and process conditioning unit is designed to effectively disinfect the airborne virus in fact with a biosensor detection unit and corresponding operation of the Air handling and conditioning unit (AHCU). The material is received inside the packing from the production line which is packed and sent to the dispatch zone (or warehouse) which is having the complete AHCU and CAHEU for or a safe delivery to the dispatch truck.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032623 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED HELMET AND NUMBER OF PERSONS DETECTION SYSTEM FOR TWO-WHEELER

(51) International classification	:H04N0005225000, G06K0009000000, H04N0001620000, G06F0016230000, G06T0007593000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mandeep Singh</b>
(33) Name of priority country	:NA	<b>2)Ruhul Amin Choudhury</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 :

The present invention relates to an AI based intelligent two-wheeler driving system which consists of a camera module, a processor, an automatic lock, and a relay unit. In the present invention, a camera captures the image which is then processed using the pre fed algorithm. The automatic lock of the present disclosure does not unlock until detection algorithm detects helmet on the head of rider and there are not more than two persons riding on the two-wheeler making the system safe for driving.

No. of Pages : 8 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032624 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : LIFE-SAVING SMART AUTOMATIC VENTILATION FOR CENTRALLY AIR CONDITIONING SYSTEM

(51) International classification	:A61M0016000000, F24F0011300000, F24F0011000000, F24F0011890000, G08B0017100000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Daljeet Singh</b>
(33) Name of priority country	:NA	<b>2)Kamal Kumar Sharma</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 :

The present invention relates to an automatic ventilation system for central air conditioners which consists of sensors module for monitoring the concentration of Oxygen O<sub>2</sub>, carbon monoxide CO and carbon dioxide CO<sub>2</sub> gases in the system. In the present invention, the ventilation unit consisting of an integrated centrifugal air blower and power source is controlled with the help of a smart algorithm.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032878 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART CENTER LOCKING SYSTEM FOR VEHICLES

(51) International classification	:G07C0009000000, G08C0017000000, E05B0063000000, E05B0047020000, H03L0007095000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ravinder Pal Singh</b>
(33) Name of priority country	:NA	<b>2)Jatinder Pal Singh</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</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 :

The smart center locking system is designed for four wheeler vehicles to overcome some shortcomings in existing center locking systems. The system can control the lock/unlock status of car door and window mirror on the remote control. The displays on the remote control renders lock/unlock status of car door and window mirror. The system is capable of controlling and monitoring the status of door lock as window glass lock using Personal area communication whereas while accessing from remote location using IoT communication

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032879 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN EYE BLINK DETECTION SYSTEM FOR FUNCTIONAL MOVEMENT DISORDER PATIENTS

(51) International classification :A61B0003113000,  
G10L0015220000,  
A61B0003000000,  
G06Q0010100000,  
A61B0005110000

(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)Lovely Professional University**

Address of Applicant :: Lovely Professional University,  
Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India  
Punjab India

(72)Name of Inventor :

**1)Ravi Teja CH V**

**2)Charanjit Singh**

**3)Priyanka Chawla**

(57) Abstract :

The present invention is an eye blink detection system of a functional movement disorder patient, in which the eye- blink pattern of the user is capture through a high resolution camera and processed through processing unit to understand what the user needs to convey to help/care-giver . The image of the eye-blink is processed through pre-trained database of the patient fed along with the information /message which need to be conveyed through MATLAB algorithm. This system generates an audio message to seek attention of the care-giver.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032880 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART CORROSION MONITORING SYSTEM FOR OIL PIPELINE

(51) International classification	:H05B0037020000, G01N0017040000, H04N0007180000, F17D0005000000, F17D0005060000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Chavala Lakshmi Narayana</b>
(33) Name of priority country	:NA	<b>2)Rajesh Singh</b>
(86) International Application No	:NA	<b>3)Anita Gehlot</b>
Filing Date	:NA	<b>4)Amit Kumar Thakur</b>
(87) International Publication 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 smart corrosion monitoring system for oil pipeline which consists of a robot having a transmitter and receiver module. In the present disclosure, transmitter module consists of a microcontroller (Atmega 328), ultrasonic sensors, a global positioning system (GPS), a smart camera and a LCD interfaced to the microcontroller and receiver module consists of a MCU, a LoRa gate, a Wi-Fi module and a RF signal amplifier. In the present disclosure, ultrasonic sensors is used to find obstacles inside the pipeline and smart camera captures the image of the damage caused by corrosion and the data is transmitted to cloud server using Wi-Fi module.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011032881 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN INTELLIGENT CAR THERMAL REGULATION AND SECURITY SYSTEM

(51) International classification	:H05B0033080000, G07C0009000000, B60R0025102000, A23L0033210000, G01J0001420000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Anita Gehlot</b>
(33) Name of priority country	:NA	<b>2)Rajesh Singh</b>
(86) International Application No	:NA	<b>3)Namita Kaur</b>
Filing Date	:NA	<b>4)Chinelli Hruthik</b>
(87) International Publication No	: NA	<b>5)Navjot Rathour</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is a smart/intelligent security system to monitor thermal regulation of Vehicles. This meant to boost the level of security efficiency, compared to the conventional lock and key especially for low cost vehicles. The smart circuitries installed in the system bring some of the severe problems of discomfort and car damage experienced by the drivers to a minimal level. It resolves the security challenges faced by automobile industries with the use of intelligent embedded system. The present system provides a cost effective ~Password Based Ignition system<sup>TM</sup>. An automatic cut-off for the headlight once the vehicle keys are plugged out in order to save the battery life at time of some human carelessness.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033404 A

(19) INDIA

(22) Date of filing of Application :04/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR DELIVERY OF GOODS USING UNMANNED AERIAL VEHICLE

(51) International classification	:G06Q0010080000, B64C0039020000, A47G0029140000, G05D0001100000, G08G0005000000	(71) <b>Name of Applicant :</b> <b>1)Chandigarh Group of Colleges</b> Address of Applicant :Chandigarh Group of Colleges, Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab 140307 (India) Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Ruchi Singla</b>
(33) Name of priority country	:NA	<b>2)Surinder Singh</b>
(86) International Application No	:NA	<b>3)Gaurav Garg</b>
Filing Date	:NA	<b>4)Muskan Gupta</b>
(87) International Publication No	: NA	<b>5)Naveen</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Raman Pidar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Instant invention relates to a system and method for delivery of goods using a drone, wherein said system is preferably designed to deliver essential items in individual flat(s) of multi-storey buildings/apartments. The operator sets a delivery schedule via specialized goods pick-up and delivery software, provisioned with the drone and its control hardware, wherein before delivery of the goods by drone, advance messages are digitally conveyed to residents for collecting their orders. The goods to be delivered are unhooked onto the specified platform, once the carrier drone reaches the appropriate address. After returning to its base station, all surfaces of the drone are mechanically sanitized automatically.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033900 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN IOT BASED PORTABLE UV-RO FILTER FOR WATER QUALITY MONITORING

(51) International classification	:C02F0001000000, H04L0029080000, C02F0001280000, G01N0033180000, C02F0001320000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)BhupinderVerma</b>
(32) Priority Date	:NA	<b>2)Paramveer Kang</b>
(33) Name of priority country	:NA	<b>3)Dushyant Kumar Singh</b>
(86) International Application No	:NA	<b>4)Onkar Singh</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 :

The present invention provides an IoT based water quality monitoring system which is safe for drinking as per the water quality standard parameters. The system provides real-time notification which indicates whether the water is safe for consuming or not. The system comes with LED based indicators which indicates the quality of the water upon filtration . This system is light weight and easily portable. The system provides water purification with automatic cut-off UV tubes which consumes less power supply.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033901 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL IMMUNITY BOOSTING FORMULATION

(51) International classification	:A61K0036185000, A61K0036470000, A61K0036906600, A61Q0019080000, A61K0045060000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr Sorabh Lakhnupal</b>
(33) Name of priority country	:NA	<b>2)Mandeep Singh</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 :

A herbal nutrition and health supplement formulation wherein the formulation consists of Shilajit Extracts, Moringa leaf extracts and ashwagandha root extracts having antioxidants, immunity boosters, anti inflammatory, anti fatigue in capsular form

No. of Pages : 8 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033902 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : MUSCLE FATIGUE PREDICTION SYSTEM OF SPRINTERS USING MACHINE LEARNING

(51) International classification	:A61B0005048800, A61B0005000000, A61B0005040000, A61B0005049200, G16H0040670000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vinod Chavan</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</b>
Filing Date	:NA	<b>4)Lovi Raj Gupta</b>
(87) International Publication No	: NA	<b>5)Amit Kumar Thakur</b>
(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 muscle fatigue prediction system of sprinters which consists of a communication modules (103) (104), EMG (Electromyography) sensor (102), amplifier (105), microcontroller (106) and a display (107). In the present disclosure, the output of EMG (Electromyography) sensor placed on the muscle of the sprinter is passed through communication module which transmits the information to the cloud and based on the machine algorithm used for the classification of patterns, the muscle fatigue is predicted in sprinters.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033903 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SOY BASED POUNDING FOR DIABETIC AND LACTOSE INTOLERANCE PATIENTS

(51) International classification	:C12Q0001688300, A23J0003160000, A61K0031715000, C12Q0001680000, A61K0047260000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely professional university Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr Sonia Morya</b>
(33) Name of priority country	:NA	<b>2)Dr Anjan Borah</b>
(86) International Application No	:NA	<b>3)Devendra Kumar</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 :

A soy based pouding especially for diabetic and lactose intolerance patients which is more stable and taste like regular food. The functional food is designed for all age groups. The basis of choosing soy protein is mainly due to its high milk content.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033904 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM TO CONTROL NOISE POLLUTION IN RESTRICTED AREA THROUGH LPWAN

(51) International classification	:H04K0003000000, H04W0048040000, H04W0012080000, G06F0016953500, G07C0009000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Shaik Vaseem Akram</b>
Filing Date	:NA	<b>4)Dharam Budhi</b>
(87) International Publication 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 real-time system to control noise pollution in restricted area by controlling the vehicle honking through LPWAN and LoRa enabled noise jammers. This customized vehicle control unit restricts the vehicle honking noise automatically through LoRa enable jammers in the restricted area upon detection. This system is cost-effective compared to the existing technology and accessed on long range through wide area network access.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033905 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CONTACTLESS CUSTOMER FLOW MONITORING AND CONTROLLING SYSTEM IN MALLS

(51) International classification	:G06Q0030040000, H04B0005000000, H04M0015000000, A47J0031520000, G05B0015020000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vinod Chavan</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</b>
Filing Date	:NA	<b>4)Amit Kumar Thakur</b>
(87) International Publication 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 contactless customer flow monitoring and controlling system in malls which consists of a microcontroller (201), a camera (202), a communication module (203), a proximity sensor (210), a buzzer (207), a voice module (208), an actuator (205), a RFID reader (204) and a display (206). In the present disclosure, the entered person is allotted a time to shop and few minutes before the expiry time an announcement is made for him to approach the bill counter otherwise the billing is not accepted.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011033907 A

(19) INDIA

(22) Date of filing of Application :07/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART HYDROPONIC FARMING USING LORA AND CLOUD SERVER

(51) International classification	:A01G0031020000, A01G0031000000, H04W0004380000, A01M0007000000, H04L0029080000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mahendra Swain</b>
(33) Name of priority country	:NA	<b>2)Rajesh Singh</b>
(86) International Application No	:NA	<b>3)Anita Gehlot</b>
Filing Date	:NA	<b>4)Chirag Gupta</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A smart hydroponic monitored from any location with assistance of LoRa (Long Range) and cloud server. A sub-immersed sink node is placed in a way that, it senses the humidity, temperature, light sensor and nutrients (Nitrogen, phosphorus and Potassium). With the assistance of cloud server, the user accesses the data of hydroponic farming through mobile and web. The real time data of hydroponic system for every successful time interval is logged into cloud server and help the user to analyze the environmental parameter of farming system in a systematic manner. After analyzing sensor data corrective action could be taken like addition of nutrient to the water solution, maintaining level of N<sub>2</sub>, O<sub>2</sub> in liquid solution

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011034189 A

(19) INDIA

(22) Date of filing of Application :10/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AIR COOLED AND BREATHABLE SINGLE PIECE BODYSUIT FOR PERSONAL PROTECTION

(51) International classification :A62B0023020000,  
A62B0018080000,  
A61F0009020000,  
A62B0018100000,  
A41B0013080000

(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)DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**  
Address of Applicant :G.T. Road, Amritsar Bye-Pass,  
Jalandhar 144011, Punjab, India Email ID: registrar@nitj.ac.in  
Phone: 0181 2690324 Punjab India

(72)Name of Inventor :  
**1)VISHWAJEET**  
**2)RENUKA**  
**3)GUPTA RENU**  
**4)SINGH DILBAG**  
**5)DEEPAK K.K.**

(57) Abstract :

The present invention discloses single piece bodysuit consisting of Head compartment (A), Torso compartment (B), Lower limb compartment (C) that includes thighs and lower legs upto ankle. Head compartment consists of a zipper path (101), eye protection shield (102) and respirator (103). A mask along with N95 respirators (103) and filter at face area along with thin transparent plastic protective sheet to cover the eyes. Torso compartment (B) consists of air-cooling fans (105), two on shoulders and other two on waist. At the back of bodysuit one passive outlet (106) is provided with filter to exhale the air off bodysuit. Lower limb compartment (C) consists of two fans (105) on thighs for air flow from ambience through filters (112). The ankle openings are covered with elastic band at the end (100). UV LEDs (118) are embedded in fan assembly in case of biological contaminants.

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011035453 A

(19) INDIA

(22) Date of filing of Application :18/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMIC PARKING ALLOCATION

(51) International classification	:G01C0021340000, B62H0003000000, G01C0021360000, B64F0001000000, G08G0001140000	(71) <b>Name of Applicant :</b> <b>1)Vishwas Agrawal</b> Address of Applicant :A4, TATA STEEL OFFICERS ENCLAVE, BETA 1, GREATER NOIDA, UTTAR PRADESH, INDIA - 201310 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vishwas Agrawal</b>
(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 dynamically relocate the allocated parking. The method includes determining, estimation time of arrival (ETA), based on received source information and destination information. The pollution level of the parking stations is also determined. Multiple parking stations within fixed perimeter of the destination are determined, based on ETA and determined pollution level of the each of the parking station. The driver of first vehicle selects the parking of his choice, accordingly the parking is allocated. The allocated parking station can be deallocated to a second vehicle, if the ETA of the first vehicle is changed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011035704 A

(19) INDIA

(22) Date of filing of Application :19/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART SEWAGE WORKERS SAFETY MONITORING SYSTEM

(51) International classification	:A61B0005000000, A61B0005024000, G08B0021040000, A61B0005110000, G08B0021140000	(71) <b>Name of Applicant :</b> <b>1)GLA University, Mathura</b> Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Anand Singh Jalal</b>
(33) Name of priority country	:NA	<b>2)Mr. Ajitesh Kumar</b>
(86) International Application No	:NA	<b>3)Ms. Mona Kumari</b>
Filing Date	:NA	<b>4)Ms. Dolly</b>
(87) International Publication No	: NA	<b>5)Mr. Saurabh Tyagi</b>
(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 wearable monitoring system based on open source IoT platform for monitoring the safety of the sewage worker. The system comprises of a methane gas sensor; a air quality sensor; a Pulse rate sensor; a GPS Location Tracker; and a Buzzer. The system is controlled through the android app. The open source IoT platform is NodeMCU micro-controller receives the input signals from all other sensors can affect its environment through actuators. The present invention can sense the level of methane gas level and air quality in the sewage, whether it is dangerous to the worker. The system also equipped with GPS tracker and Pulse rate sensor for detection of the location and the rate of heart beat / pulse of the workers. The provided system is cost- effective solution for the safety of the sewage workers.

No. of Pages : 11 No. of Claims : 4



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011036215 A

(19) INDIA

(22) Date of filing of Application :22/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MECHANICAL GRIPPER WITH CONTROLLED OPERATIONS FOR ROBOTIC ARC WELDING

(51) International classification :B23K0009095000,  
B23K0009100000,  
B25J0015020000,  
B23K0009120000,  
B25J0015000000

(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)GLA University, Mathura**

Address of Applicant :17km Stone, NH-2, Mathura-Delhi  
Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar  
Pradesh India

(72)Name of Inventor :

**1)Dr. Kamal Sharma**

**2)Dr. Debanik Roy**

**3)Mr. Rohit Sharma**

**4)Mr. Anas Islam**

**5)Mr. Aman Sharma**

**6)Mr. Rishabh Chaturvedi**

(57) Abstract :

The present invention discloses a gripper (01) for robotic arc welding with controlled operations in which sensors are configured at the appropriate locations to get real time data of welding parameters The gripper (01) includes an arm extension (02) which is attached with the gripper (01), a plurality of springs (03) which are positioning the gripper (01) with the arm extension (02), and a plurality of sensors for an operation of the gripper (01) during welding, wherein the operations of the gripper (01) are automatic to adjust the height, to control the path, to know the arc formation, to detect the decreasing load and consumption of electrode.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011036216 A

(19) INDIA

(22) Date of filing of Application :22/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM FOR AUTOMATIC COUNTING, SCANNING AND TAGGING OF LUGGAGE

(51) International classification	:B65G0047820000, B65G0043080000, A01D0057200000, B65G0043100000, B65G0067080000	(71)Name of Applicant : <b>1)GLA University, Mathura</b> Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Mr. Deepak Mangal</b>
(33) Name of priority country	:NA	<b>2)Dr. Dilip Kumar Sharma</b>
(86) International Application No	:NA	<b>3)Dr. Kamal Sharma</b>
Filing Date	:NA	<b>4)Mr. Shubhanjay Tiwari</b>
(87) International Publication No	: NA	<b>5)Mr. Tanay Singh</b>
(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 that performs automatic counting, scanning and tagging of luggage at airports and other crowded areas by using robotic arm and conveyors. The conveyor belts (1) and (2) are separated by a yellow line/separator (5). Conveyor belt (1) measures the weight of luggage. The sensor attached on the left side of the conveyor belt (2) detects the luggage and counts the luggage bags (7). Further it scans the metallic objects (9) in the luggage and stops the movement of conveyors. The robotic arm (3) sticks tags on the luggage.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011036361 A

(19) INDIA

(22) Date of filing of Application :24/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DEVICE TO PROTECT CROPS FROM PESTS, BIRDS, ANIMALS AND ENHANCE WORK EFFICIENCY PARACLETE •

(51) International classification	:A01M0029060000, A01M0029160000, A01M0007000000, G06Q0050020000, A01M0029180000	(71)Name of Applicant : <b>1)Shubhi Sharma</b> Address of Applicant :14/36, Sector 5, Niti Nagar, Malviya Nagar Rajasthan India <b>2)Harit Mangal</b> <b>3)Munindita Joshi</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Shubhi Sharma</b>
(33) Name of priority country	:NA	<b>2)Harit Mangal</b>
(86) International Application No	:NA	<b>3)Munindita Joshi</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 :

More than 50% of India<sup>TM</sup>s population is in farming but contributes only 10-15% in GDP growth. About 30-35% of agricultural output gets impacted by pests and birds so we need to reduce this loss and increase their yield and work efficiency and thus, we invented PARACLETE. The present invention relates to an intelligent, multipurpose scarecrow installed in a field, to increase the yield by helping the farmers protect their crops from pests, birds, animals and thieves as well as helping them in agricultural practices. This has been achieved by making our usual scarecrow capable to speak, see, report any motion in the farm, provide storage space, irrigate plants, spray weedicides, fertilizers, pesticides and produce ultrasonic sound to repel pests and birds and also share its live location.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011037415 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A DRUM DRIER FOR OPTIMAL PREHEATING OF PLASTIC SCRAP

(51) International classification	:C07D0401140000, F26B0011060000, A23L0003480000, F16G0005160000, F27D0013000000	(71) <b>Name of Applicant :</b> <b>1)GLA University, Mathura</b> Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Kamal Sharma</b>
(33) Name of priority country	:NA	<b>2)Dr. Vijay Kumar Dwivedi</b>
(86) International Application No	:NA	<b>3)Mr. Rohit Sharma</b>
Filing Date	:NA	<b>4)Mr. Anas Islam</b>
(87) International Publication No	: NA	<b>5)Mr. Parvez Alam</b>
(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 drum drier for optimal preheating of plastic scrap without losing the strength of the material. The steps involved in present invention are collection of plastic, sorting, shredding, washing & cleaning, pre-heating in drum drier and molding. The drum drier comprises of a drum (1), hopper cover (2), thermocouple (3), flywheel (4), shaft (5), v-belt (6), v-pulley (7), motor (8), bearing (9), frame (10) and bolt (11).

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

(54) Title of the invention : A SMART WHEEL CHAIR

(51) International classification	:A61B0005000000, H04L0029080000, A61B0005024000, A61B0005145500, A61G0005100000	(71) <b>Name of Applicant :</b> <b>1)GLA University, Mathura</b> Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Ajitesh Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Anand Singh Jalal</b>
(86) International Application No	:NA	<b>3)Dr. Manoj Kumar</b>
Filing Date	:NA	<b>4)Ms. Pratiksha Rawat</b>
(87) International Publication No	: NA	<b>5)Mr. Tanuj Johal</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Mr. Manish Chahar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a smart wheel chair (1) that measures the heartbeat along with oxygen level of blood through heart beat sensor (3) and blood oximeter (2) respectively of the person sitting on chair in real time. The sensor is connected to the NodeMCU (4). The data captured by the sensor is sent to the NodeMCU through the wired connection. The Node MCU(4) has a built-in Wi-Fi module that allows sending data over the network (5). The data received by the node MCU (4) is uploaded to the Blynk cloud which is then fetched in the smart device (6) and enables person/doctors to observe the data at anytime from anywhere in the world.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011037417 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DESTRUCTION OF PHOSPHOR LIPIDS BY METAL SALT TO ACT AS DISINFECTANT

(51) International classification	:A61K0009000000, A61Q0017000000, A61K0047100000, A61K0008810000, A61K0009080000	(71) <b>Name of Applicant :</b> <b>1)GLA University, Mathura</b> Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ms. Susmita Pramanik</b>
(33) Name of priority country	:NA	<b>2)Dr. Dipak Kumar Das</b>
(86) International Application No	:NA	<b>3)Dr. Panchanan Pramanik</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 :

The present invention is related to the disinfectant or anti-microbial composition for managing or preventing the microbial infections such as corona virus infection. The disinfectant composition comprises Sodium lauryl sulphate, lanthum chloride, Cerium nitrate and magnesium chloride solution. The administration of the composition includes in the form of solution, suspension and liquid. The present composition is a clear and transparent solution without any suspended particles, so that it is a suitable for topical application to the skin.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011037418 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : LANDSLIDE ROBOTIC DRONE

(51) International classification	:G08B0021100000, G08B0031000000, E02D0017200000, B64C0039020000, E01F0007040000	(71) <b>Name of Applicant :</b> <b>1)GLA University, Mathura</b> Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Abhinav Kumar Dhusia</b>
(33) Name of priority country	:NA	<b>2)Mr. Vaibhav Goyal</b>
(86) International Application No	:NA	<b>3)Mr. Swaraj Chaturvedi</b>
Filing Date	:NA	<b>4)Mr. Trivendra Sengar</b>
(87) International Publication No	: NA	<b>5)Ms. Ishita Goel</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Mr. Prashant Kumar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system having a landslide robotic drone. It provides a system of disaster prediction such as landslide, rock fall, mud flow, debris flow and soil erosion while providing an alert to a user device of such prediction of landslide occurrence. The system includes a first device which is configured with a second device, a robot box to carry the second device, at least one sensor, a means for data collection, and an alert mechanism.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011037419 A

(19) INDIA

(22) Date of filing of Application :31/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A DEVICE AND A SYSTEM TO DETECT AND REMOVE THE PIPE BLOCKAGE

(51) International classification :G01S0015930000,  
A47L0009280000,  
B05B0015500000,  
H04W0004021000,  
A61M0001360000

(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)GLA University, Mathura**

Address of Applicant :17km Stone, NH-2, Mathura-Delhi  
Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Uttar  
Pradesh India

(72)Name of Inventor :

**1)Dr. Kamal Sharma**

**2)Mr. Pranay Pushp**

**3)Mr. Tarun Grover**

(57) Abstract :

The present invention discloses a device and a system for the detection and removal of the blockages from the pipe which includes a base body with a controller, a means of hydraulic pressure to remove the blockage from pipes and a mechanism to identify the blockage and to detect the area of pipe which is blocked. The mechanism includes an ultrasonic sensor arranged on the device such that it identifies the area of blockage and locate the device to the identified blocked area to remove the blockage through the means of hydraulic pressure on the instructions controlled by the controller.

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



(54) Title of the invention : VOICE CONTROL CIRCUIT BREAKER: INTELLIGENT VOICE CONTROL CIRCUIT BREAKER FOR HOUSEHOLD APPLIANCES.

(51) International classification	:G10L0015220000, H04N0021439000, H04N0005440000, G06F0003160000, H04M0001600000	(71)Name of Applicant : <b>1)Dr. RAMA KANT (ASSOCIATE PROFESSOR)</b> Address of Applicant :CSE DEPARTMENT, G L BAJAJ GROUP OF INSTITUTIONS, MATHURA, UP, INDIA. ADDRESS: H.NO. 209, SURYA LOK COLONY, KHANDARI AGRA -282005, UP, INDIA. E-mail: fvdrkbaghel2020@gmail.com Uttar Pradesh India
(31) Priority Document No	:NA	<b>2)Prof. (Dr.) ANISH GUPTA (PROFESSOR)</b>
(32) Priority Date	:NA	<b>3)Prof. (Dr.) RUCHIKA GUPTA (PROFESSOR)</b>
(33) Name of priority country	:NA	<b>4)Prof. (Dr.) LALIT KUMAR TYAGI (PROFESSOR)</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. RAMA KANT (ASSOCIATE PROFESSOR)</b>
(87) International Publication No	: NA	<b>2)Prof. (Dr.) ANISH GUPTA (PROFESSOR)</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Prof. (Dr.) RUCHIKA GUPTA (PROFESSOR)</b>
Filing Date	:NA	<b>4)Prof. (Dr.) LALIT KUMAR TYAGI (PROFESSOR)</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

My Invention Voice Control Circuit Breaker is a remote voice control circuit breaker for household appliances like TV, AC, table Lamp etc. in which comprises a socket, a voice control switch, an amplifier, and a mobile phone jack. The invented remote voice control circuit breaker for household appliances is characterized in that the voice control switch is provided inside the socket, the power supply inside the socket can be controlled by the voice control switch. The invented remote voice control circuit breaker also the amplifier is connected on the voice control switch, the amplifier is provided outside the socket, and the tail end of the amplifier is connected with the mobile phone jack. The invented remote voice control circuit breaker for household appliances has the advantages of simple production, and simple, convenient and safe use; and in the case that the household appliances are forgotten to be turned off, by dialing the mobile phone connected with the mobile phone jack, the power of the household appliances connected with the socket is cut off. For Example: A voice-controlled TV set comprises a storage device, a voice controller, and a processor. The storage device is used to store a plurality of application programs, which is utilized to execute the various functions of the TV set; the voice controller is used to receive the voice of the user, and compare said voice with more than one voice instruction and then output a control code. Finally, the processor is used to execute the application program corresponding to the control code, so that the voice-controlled TV set is able to perform various functions according to the voice instructions given by the user.

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

(54) Title of the invention : DRONE AERIAL VEHICLE: DRONE AERIAL VEHICLE TO DETECT THE OBJECT AND PROVIDE THE NOTIFICATION.

<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>:B64C0039020000, B63C0009010000, B63C0009000000, G01C0021200000, G08B0025010000</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><b>1)Prof. (Dr.) LALIT KUMAR TYAGI (PROFESSOR)</b> Address of Applicant :G L BAJAJ INSTITUTE OF TECHNOLOGY &amp; MANAGEMENT, PLOT NO. 2 KNOWLEDGE PARK-III, GREATER NOIDA, U.P-201306, INDIA. Address: H-209, BETA-2, GREATER NOIDA, U.P, INDIA-201308. E-mail: tyagilalit70@yahoo.co.in Uttar Pradesh India</p> <p><b>2)Prof. (Dr.) RUCHIKA GUPTA (PROFESSOR)</b></p> <p><b>3)Prof. (Dr.) ANISH GUPTA (PROFESSOR)</b></p> <p><b>4)Dr. RAMA KANT (ASSOCIATE PROFESSOR)</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Prof. (Dr.) LALIT KUMAR TYAGI (PROFESSOR)</b></p> <p><b>2)Prof. (Dr.) RUCHIKA GUPTA (PROFESSOR)</b></p> <p><b>3)Prof. (Dr.) ANISH GUPTA (PROFESSOR)</b></p> <p><b>4)Dr. RAMA KANT (ASSOCIATE PROFESSOR)</b></p>
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(57) Abstract :

My Invention Drone Aerial Vehicle • is a drone equipped with a 32-MIP camera, a wireless communication unit, an acoustic sensor, a GPS receiver, hardware/software, and collapsible floatation device patrols above swimmers. The invented drone the camera and acoustic sensor capture the object motion, object color, video, and audio of the swimmers. The information is either streamed to a command center or processed by the on-board hardware/software. The invented drone with object motion, object color, video, and audio analysis capabilities, hardware/software is used to detect a swimmer in distress object information. Alternatively, the information is streamed to lifeguard or volunteers all over the world to spot information display. The invented drone to detection method is to let swimmers wear a wearable emergency notification device, which sends wireless signals comprising GPS location data. A presses a button to indicate rescue request and the drones fly over by GPS signal guidance. The invented drone in addition to Solar power is used as the optional power source of the drones, which would allow them to sustain operation for a prolonged period of time. Once an object identified, the drone or drones fly over the object and drops the collapsible floatation device. For Example, drones are flown over the beach or the water area where the swimmers are. Each drone is responsible for a relatively fixed area of the water surface to monitor. Each drone is either stationary in mid-air or in a circular motion. The camera on a drone takes real-time videos or pictures of the water surface below. The microphone picks up acoustic signals the swimmer has a portable emergency notification device. The notification device has a wireless transmitter for sending wireless signals to notify the registered mobile no or user display unit. the wireless signals comprise GPS geo-coordinate information for identifying the location of the swimmer. The communication sensor is able to pick up the signals containing GPS information from the notification device directly or indirectly.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038250 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : FOOT OPERATED MORTICE DOOR LOCK

(51) International classification	:E05B0059000000, E05B0055120000, B60R0025000000, E05B0015020000, E05B0009020000	(71) <b>Name of Applicant :</b> <b>1)Mr. Saksham Agarwal</b> Address of Applicant :Pali Sadan, Opposite of Telephone Exchange, Near CM Honda, Agra Road, Aligarh 202001 Uttar Pradesh Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Saksham Agarwal</b>
(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 foot operated mortice lock comprises of a lock body (1), a lock front plate (2) a strike plate (3) in which the lock body (1) comprises of a handle lock trim (4), a mortice lock (6), a latch bolt (7), a dead bolt (8) and is provisioned with a pedal lock trim (5) to operate the mortice lock through the pedal lock trim (5). The latch bolt is a non-locking sprung operates by the door handle linked with handle lock trim (4) as well as the pedal linked with pedal lock trim (5) so that it can be operated with foot also.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038309 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM FOR MAKING WASHERS AND GASKETS

(51) International classification	:B33Y0010000000, B33Y0030000000, B33Y0050020000, G06F0017500000, B22F0003105000	(71)Name of Applicant : <b>1)GURU RATAN SATSANGEE</b> Address of Applicant :Faculty of Engineering, Dayalbagh Educational Institute, Dayalbagh, Agra - 282005 Uttar Pradesh India
(31) Priority Document No	:NA	<b>2)SAURABH BHARDWAJ</b>
(32) Priority Date	:NA	<b>3)Er. ISHANT SINGHAL</b>
(33) Name of priority country	:NA	<b>4)Dr. ANKIT SAHAI</b>
(86) International Application No	:NA	<b>5)Dr. RAHUL SWARUP SHARMA</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)GURU RATAN SATSANGEE</b>
(61) Patent of Addition to Application Number:	NA	<b>2)SAURABH BHARDWAJ</b>
Filing Date	:NA	<b>3)Er. ISHANT SINGHAL</b>
(62) Divisional to Application Number	:NA	<b>4)Dr. ANKIT SAHAI</b>
Filing Date	:NA	<b>5)Dr. RAHUL SWARUP SHARMA</b>

(57) Abstract :

The invention relates to a method and system for fabricating silicon washers and gaskets using fused material deposition technique. The invention introduces a syringe extruder for controlled extrusion of the semi-liquid silicon paste. This invention tends to overcome the problem of excessive inventory of articles like washers, gaskets and other items prone to heavy wear and tear. The method comprises a three dimensional computer aided design model of target part, layering process of three dimensional model, preparation of semi-liquid paste which is to be then filled in syringe extruder, layer-by-layer fabrication of the target article by extrusion of semi-liquid silicon paste through the syringe extruder.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038318 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A METHOD TO PREVENT TAMPERING OF EDGE DEVICE BASED CAMERA IN REAL-TIME SURVEILLANCE

(51) International classification	:G08B0013196000, G08B0015000000, G08B0003100000, G08B0013000000, G06K0009000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Swapnil Bagwari</b>
Filing Date	:NA	<b>4)Lovi Raj Gupta</b>
(87) International Publication 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 which prevent tampering of edge device camera in real-time surveillance of the security system. The system generates an alert upon detection of any obstacle in camera view along with an API key message to the user. A flag bit in the cloud sever is available to set or reset in cloud in order to disable the condition of buzzer and enable only message for a pre-defined time duration. The data is stored in the cloud server which is easily accessible by the concerned authorities to monitor remotely.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038319 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A FULLY AUTOMATED WALL MOUNTED SYSTEM TO DETECT BODY TEMPERATURE

(51) International classification	:G01K0013000000, A61B0005010000, G06Q0050220000, A61B0005000000, G01K0005040000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ravi Teja, CH, V</b>
(33) Name of priority country	:NA	<b>2)Charanjit Singh</b>
(86) International Application No	:NA	<b>3)Priyanka Chawla</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 :

A wall mounted system which detects the body temperature of the user without any physical contact and displays the body temperature on the display screen along with a voice alert. Once the body temperature is captured by the sensor, the reading of the user is displayed on the OLED display along with a voice alert. This system provides contactless body temperature measuring system -which helps to avoid diseases such as COVID-19 in the public places or healthcare industry.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038320 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PORTABLE REAL-TIME EDGE DEVICE TO MOINTOR THE STABILITY OF A SLOPE

(51) International classification	:G06K0017000000, G06Q0010000000, A61B0008120000, G08B0021100000, A01D0046300000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Swapnil Bagwari</b>
Filing Date	:NA	<b>4)Dharam Buddhi</b>
(87) International Publication 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 portable real-time system to detect the stability of the slope in hilly terrain which generates an alert upon detection of a landslide and vacate the place immediately. This system consists of high definition camera to capture the real time images of the terrain and analysis the probability of landslide based upon the cross section images and stability of the slope. This system is low cost and low power consumption with in-built solar panel to generate energy to the system.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038323 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : REUSABLE ANTIMICROBIAL EXPIRATORY FILTER AND ISOLATION BOX

(51) International classification	:E02B0015080000, A61L0009000000, E02D0017080000, B03C0003090000, F24F0007000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Aniket Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)Vishal Francis</b>
(86) International Application No	:NA	<b>3)C. H. Patel</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 :

The present invention relates to a reusable antimicrobial expiratory filter and isolation box which consists of a duct containing inlet and outlet hose, a set of copper plates with pleated/wavy geometry, and an isolation box for sanitization of plates. In the present disclosure, the set of copper plates having most of the air borne contamination are further removed from the duct and kept in the isolation box in which a 0.5 units of gap between copper plates is provided for required amount of time ensuring that all plates are disinfected so as to make them reuseable.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038324 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATIC IOT ENABLED SANITIZING SYSTEM WITH REAL-TIME MONITORING

(51) International classification	:H04Q0009000000, G08B0025010000, G01H0001000000, G06K0015000000, G06F0016958000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dharam Buddhi</b>
(33) Name of priority country	:NA	<b>2)Lovi Raj Gupta</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</b>
Filing Date	:NA	<b>4)Anita Gehlot</b>
(87) International Publication No	: NA	<b>5)Swapnil Bagwari</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Prabin Kumar Das</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A full body automatic smart sanitizer (101) assisted with real-time monitoring system. The cloud web interface collects the information and status of the system and display on graphical user interface with exact location. The system upon detection of a person with dirty hands dispenses a tissue after which the sprinkler activates to sprinkle the sanitizer in the hand. The system generates notification to the concern authority through sms or WiFi enabled notification to monitor the level of the sanitizer along with the real time data.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038325 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : ZIGBEE AND BLE BASED ADVANCED LUGGAGE SECURITY SYSTEM

(51) International classification	:H04W0004800000, H04W0052020000, G08B0025140000, G08B0001080000, A45C0005140000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Lovi Raj Gupta</b>
Filing Date	:NA	<b>4)Amit Kumar Thakur</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(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 ZigBee and BLE based advanced luggage security system which consists of a controller unit (101), BLE (Bluetooth Low Energy) (102), GPS (Global Positioning System) (103), LCD screen (104), battery power supply (105), ZigBee module (107), a mobile phone (106), gateway with internet and a cloud based mobile application (108) and a reed switch (109). In the present disclosure, if the luggage bag is out of range for long time, then the ZigBee module (107) provide alerts to the send GPS location of the bag to the cloud server, where the respective mobile application shows the status of the bag with real data.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038326 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN EDGE BASED REAL TIME MONITORING SYSTEM FOR ISOLATION WARDS

(51) International classification	:G06Q0010100000, G06F0021550000, G06Q0050000000, H04L0029060000, G08B0021040000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Lovi Raj Gupta</b>
(33) Name of priority country	:NA	<b>2)Dharam Buddhi</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</b>
Filing Date	:NA	<b>4)Anita Gehlot</b>
(87) International Publication No	: NA	<b>5)Swapnil Bagwari</b>
(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 monitor the quarantine patients in the isolation wards for any unusual activity such as disobeying social distancing, trying to flee away, restlessness, etc and tracks the patients activity in real-time. The real time monitoring data is collected and store in the cloud server for further analysis. Individual camera with unique identification number generated for each person records the activity and generates an alert if the person tries to flee or disobey social distancing norms.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038328 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART FIRST-AID BOX USING CLOUD SERVER

(51) International classification	:A61J0007040000, A61F0017000000, G08B0025010000, H04W0084120000, G01S0005000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Lovi Raj Gupta</b>
Filing Date	:NA	<b>4)Amit Kumar Thakur</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(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 smart first aid kit with cloud server facility which consists of controller unit (201), RF module (205), emergency button (207), speaker (206), LCD screen (204), GPS (203) and battery power supply (202). In the present disclosure, as the emergency button (207) is pressed, GPS location of the user is shared to the nearest hospital along with ID through wireless communication. In the present invention, RF modem and Wi-Fi modem is helpful for communicating the information to the nearest hospital and assists the patient to take the medicine on the time with the help of speaker (206).

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

(54) Title of the invention : HBTM-TEMPERATURE AND LOCATION MONITOR: HUMAN BODY TEMPERATURE, MEDICAL ALERT AND LOCATION MONITOR USING IOT- BASED 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</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>:G08B0021020000, A61B0005000000, G08B0025080000, G08B0021220000, A61B0005110000</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><b>1)NEELAM SHARMA (RESEARCH SCHOLAR)</b> Address of Applicant :UTTRAKHAND TECHNICAL UNIVERSITY (UTU), DEHRADUN, INDIA. E-mail: sharmaneelam2@gmail.com Uttarakhand India</p> <p><b>2)DR. NITISH PATHAK (ASSOCIATE PROFESSOR)</b></p> <p><b>3)DR. B. M. SINGH (PROFESSOR AND DIRECTOR)</b></p> <p><b>4)DR. KARAN SINGH</b></p> <p>(72)Name of Inventor :</p> <p><b>1)NEELAM SHARMA (RESEARCH SCHOLAR)</b></p> <p><b>2)DR. NITISH PATHAK (ASSOCIATE PROFESSOR)</b></p> <p><b>3)DR. B. M. SINGH (PROFESSOR AND DIRECTOR)</b></p> <p><b>4)DR. KARAN SINGH</b></p>
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## (57) Abstract :

our Invention HBTM-Temperature and Location Monitor • is a person/ object monitoring system for a motion object includes more than one wireless nodes and hide chip/wearable appliance in communication with the one or more wireless nodes, the appliance monitoring vital signs as well as real time monitoring. Each object represents a possible physical location in the environment and a probability value is assigned to each object. This probability represents the likelihood that the person is at the location specified by the object. At each time step, each object is reevaluated and its probability value is updated according to the ZigBee signal strength measurements. The invented technology Less likely object is then redistributed around more likely object. This is done by building a cumulative sum graph of the normalized probabilities of each object. The invented technology also a intelligent object controlling, monitoring process a sensor is coupled to an object and configured to detect biometric data associated with the object and a mobile computing device includes a memory that stores computer-executable instructions and a processor executes the computer-executable instructions. The mobile computing device receives the biometric data from the sensor processes the biometric data to monitor, location track, health status of the object and provides therapeutic feedback related to the health and other required status. The invented technology also a signaling system is provided for rendering an alarm for an individual in distress combined with a locating and real-time position to thus alert and direct appropriate personnel to the needs of the individual in distress and to monitor the location of that individual. The invented technology also a system comprises a chip, moveable object, portable signaling unit a remote alarm switch device a central dispatch station and makes use of a wireless communication system. The invented technology also a portable signaling unit and the remote alarm switch may be adapted to be worn at different locations on the person's body and the remote alarm switch way be concealed in the form of a wristband or in the form of any other object such as a broach, pendant, keychain, body inside chip, etc.

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

(54) Title of the invention : MACHINE LEARNING BASED SYSTEM FOR EVALUATION AND PREDICTION OF LUNG CANCER USING COMPUTED TOMOGRAPHY 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>:G06N0020000000, A61B0006030000, G06T0007000000, G01N0033483000, G01N0023046000</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><b>1)MR. PUNEET KUMAR AGGARWAL</b> Address of Applicant :SR. ASSISTANT PROFESSOR,DEPARTMENT OF INFORMATION TECHNOLOGY, ABES ENGINEERING COLLEGE, GHAZIABAD, UTTAR PRADESH, INDIA Uttar Pradesh India</p> <p><b>2)PROF. (DR.) BHAGIRATHI NAYAK</b></p> <p><b>3)DR. BOPPURU RUDRA PRATHAP</b></p> <p><b>4)SACHIN GOEL</b></p> <p><b>5)DR. HIMANSHU SHARMA</b></p> <p><b>6)MR. ANUPAM</b></p> <p><b>7)DR. MUTHUKUMAR SUBRAMANIAN</b></p> <p><b>8)P. RAJAKUMAR</b></p> <p>(72)Name of Inventor :</p> <p><b>1)MR. PUNEET KUMAR AGGARWAL</b></p> <p><b>2)PROF. (DR.) BHAGIRATHI NAYAK</b></p> <p><b>3)DR. BOPPURU RUDRA PRATHAP</b></p> <p><b>4)SACHIN GOEL</b></p> <p><b>5)DR. HIMANSHU SHARMA</b></p> <p><b>6)MR. ANUPAM</b></p> <p><b>7)DR. MUTHUKUMAR SUBRAMANIAN</b></p> <p><b>8)P. RAJAKUMAR</b></p>
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(57) Abstract :

The present invention relates to a machine learning based system for evaluation and prediction of lung cancer using computed tomography images. The objective of the present invention is to solve the problems in the prior art related to adequacies in technologies of diagnosis and prediction of the lung cancer. The disclosed system for evaluation and prediction of lung cancer comprises an image acquisition module, an image preprocessing module, a machine learning module and a user terminal.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038465 A

(19) INDIA

(22) Date of filing of Application :07/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM AND A METHOD OF PROCESSING A FOOD PRODUCT

(51) International classification	:A47J0043070000, B01F0015000000, A47J0043046000, H01L0021677000, B26D0001000000	(71) <b>Name of Applicant :</b> <b>1)HCL Technologies Limited</b> Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Yuvaraj D Patil</b>
(33) Name of priority country	:NA	<b>2)Vishwanath Vazar</b>
(86) International Application No	:NA	<b>3)Mohan Sriram</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 :

A food processing device configured to process a food product stored in a pod is disclosed. The food processing device may further include a drive assembly. The drive assembly may include a drive motor configured to move linearly in the vertical direction, and a linear actuator coupled to the drive motor. The linear actuator may cause the drive motor to move linearly in the vertical direction. The drive assembly may further include a drive shaft coupled to the drive motor. The drive shaft may be configured to engage or disengage with the top shaft of the pod owing to the linear movement of the drive motor in vertical direction. Upon engaging with the tops shaft of the pod, the drive shaft may be further configured to impart rotary motion to the top shaft.

No. of Pages : 32 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038479 A

(19) INDIA

(22) Date of filing of Application :07/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : HELMET AND OTHER ITEMS MADE FROM PLASTIC WASTE MATERIAL AND BIO DEGRADABLE FIBRE

(51) International classification	:C10G0001100000, A42B0003040000, D04H0001540000, B32B0037000000, C08L0077000000	(71) <b>Name of Applicant :</b> <b>1)ANURAG VARSHNEY</b> Address of Applicant :II-B,159, NEHRU NAGAR, GHAZIABAD, UTTER PRADESH-201010 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)ANURAG VARSHNEY</b>
(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 is described about manufacturing of Helmets from Plastic waste material and Waste Natural Fibre. Composite plastic waste is used in many ways it is an innovation to be used in helmet. This innovation presents the manufacturing of helmet from composite plastic waste and inner lining by biodegradable Natural Fibre materials like bamboo fibre, pineapple leaves fibre, banana fibre, garden waste leaves composite material etc. The invention is related to manufacturing of bio degradable helmet where outer shell is made of plastic waste and inner shell is made of natural fibre. Where during recycling time plastic waste reuse-as again use in helmet material or accessories and inner shell of helmet is used as composite material. Our Invented Technology to design the helmets for Baseball, Softball, catcher's helmets with faceguards, and baseballs; ice hockey helmets; soccer shin guards; lacrosse helmets and facemasks, lacrosse balls; field hockey headgear, field hockey balls; polo helmets, football player, bicycle rider etc. The usage of helmet is for where force is limited or in control. Our invented Helmet is useful for Fire Brigade personnel, Police, Security Guard, construction engineer and worker's helmet

No. of Pages : 15 No. of Claims : 9



(54) Title of the invention : MOBILE PROTOTYPE DESALINATION EQUIPMENT CONVERT SEA SALT WATER TO FRESH DRINKING WATER

(51) International classification	:C02F0001140000, C02F0001440000, C02F0001469000, C02F0001000000, B01D0061360000	(71) <b>Name of Applicant :</b> <b>1)ANURAG VARSHNEY</b> Address of Applicant :II-B,159, NEHRU NAGAR, GHAZIABAD, UTTER PRADESH-201010 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)ANURAG VARSHNEY</b>
(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 the present invention water purification is innovated by prototype machine which clean salt water of sea, Brackish water. The process of water cleaning system by humidification and dehumidification process. Prototype machine principal of technology is to clean salt water by humidification and dehumidification process is air closed system unit. Prototype machine has one internal structure which is air closed to collect water vapor. Invented machine is designed to condensate and store vapor water. Invented machine is monitor fresh water level and quality. Innovated Desalination prototype equipment is not only removes salt but also removes harmful metals, chemicals and bacteria from input water. By using of chemical process excluding bacteria physically. This process makes water healthier than any other fresh water. Mobile Prototype Desalination Technology innovated on the basis of Multi stage Flash Distillation, Multi effect Distillation, Vapor compression Distillation, Membrane Technology, Electrodialysis Reversal and Reverse Osmosis The invention is related 10 the process of Salt water conversion to fresh water, the process remove other contaminations. Natural Process of climate is watercycle which convert water into fresh water this includes the source of water from lakes, ocean, streams, rivers, lakes and other natural part of earth's eco system. Eco System Circulates Water by evaporating process from large bodies of water like ocean and lakes and convert it into clouds in the sky. These clouds precipitation of rain or snow and bring it back down to earth as fresh water which drop into river, lake and sea. Ecosystem converts salt water or brackish' water into fresh drinkable water. Our Invention of desalination equipment is same as eco system which converts sea water or brackish water into fresh water.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038801 A

(19) INDIA

(22) Date of filing of Application :08/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF A TRILAYER TABLET FOR THE TREATMENT OF DIABETES MELLITUS

(51) International classification	:A61K0031155000, A61K0009200000, A61K0045060000, A61K0031700000, A61K0031704800	(71) <b>Name of Applicant :</b> <b>1)Divyesh Yadav</b> Address of Applicant :Hno.216, Kapashera, Delhi Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Divyesh Yadav</b>
(33) Name of priority country	:NA	<b>2)Yeshu Vashisht</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 :

The present invention provides methods for preparing trilayer tablet compositions and methods for treating diseases and disorders associated with SGLT2 activity using trilayer tablet compositions. Metformin may be in the form of a pharmaceutically acceptable salt, where metformin hydrochloride (HCl) is preferred. A preferred SGLT2 inhibitor are dapagliflozin or a pharmaceutically acceptable salt thereof, dapagliflozin (S) propylene glycol hydrate (1: 1: 1) or dapagliflozin (R) propylene glycol hydrate (1: 1: 1) and empagliflozin. The SGLT2 inhibitors composition is an immediate release composition or a sustained release composition, wherein an immediate release composition is preferred.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038833 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART ELECTRONIC INDUCTION STOVE

<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>:F24C0003120000, A47J0027620000, G07F0017000000, G08C0017020000, G06K0019077000</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><b>1)Mr. Manish Bhardwaj</b> Address of Applicant :Assistant Professor Research Computer Science and Engineering KIET Group of Institutions Ghaziabad. Delhi-NCR, NH-58, Meerut Road, Ghaziabad -201206, Uttar Pradesh, India 9457966671 aapkaapna13@gmail.com Uttar Pradesh India</p> <p><b>2)Mr. Saurabh Sharma</b></p> <p><b>3)Mrs. Arti Sharma</b></p> <p><b>4)Dr. Pramod Kumar Yadav</b></p> <p><b>5)Aman Jolly</b></p> <p><b>6)Rajesh Dwivedi</b></p> <p><b>7)Amrit Kaur Saggu</b></p> <p><b>8)Deepak Kumar</b></p> <p><b>9)Payal Malik</b></p> <p><b>10)Dr ANAND PRAKASH SHUKLA</b></p> <p><b>11)Sunidhi Sharma</b></p> <p><b>12)Sharad Mishra</b></p> <p><b>13)Pranit Puri</b></p> <p><b>14)Mohammad Arsh</b></p> <p><b>15)Kanishka Nagar</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. Manish Bhardwaj</b></p> <p><b>2)Mr. Saurabh Sharma</b></p> <p><b>3)Mrs. Arti Sharma</b></p> <p><b>4)Dr. Pramod Kumar Yadav</b></p> <p><b>5)Aman Jolly</b></p> <p><b>6)Rajesh Dwivedi</b></p> <p><b>7)Amrit Kaur Saggu</b></p> <p><b>8)Deepak Kumar</b></p> <p><b>9)Payal Malik</b></p> <p><b>10)Dr ANAND PRAKASH SHUKLA</b></p> <p><b>11)Sunidhi Sharma</b></p> <p><b>12)Sharad Mishra</b></p> <p><b>13)Pranit Puri</b></p> <p><b>14)Mohammad Arsh</b></p> <p><b>15)Kanishka Nagar</b></p>
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(57) Abstract :

The invention SMART ELECTRONIC INDUCTION STOVE • is a smart cooking device used to exchange information between device and the user. This smart device constructed with the wireless communication and the temperature of the device is controlled by the relevant sensors precisely. The smart electronic induction stove includes the stove, electronic circuit, temperature sensor, a wireless communication module, antenna and batteries.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011038836 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATED GREEN CORRIDOR FOR LIFE SAVING VEHICLES.

(51) International classification	:B63C0009093000, E21B0044000000, B63C0009200000, B60R0021340000, C09J0007220000	(71)Name of Applicant : <b>1)DR. VIKRAM BALI</b> Address of Applicant :JSS ACADEMY OF TECHNOLOGY EDUCATION Uttar Pradesh India <b>2)SONALI MATHUR</b> <b>3)DR. VISHU KUMAR SHARMA</b> <b>4)DR. G.M PATIL</b> <b>5)DR. VISHAL BHATNAGAR</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)DR. VIKRAM BALI</b> <b>2)SONALI MATHUR</b> <b>3)DR. VISHU KUMAR SHARMA</b> <b>4)DR. G.M PATIL</b> <b>5)DR. VISHAL BHATNAGAR</b>
(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 system for providing early warning of the approach and egress of emergency vehicles in which the warning system provides a display to indicate the direction from which the emergency vehicle is approaching and in addition provides preemption control of the traffic signals at an any passway or road or highway or jammed area or intersection. An emergency signal will be sent to the main controller. The emergency received signal is then processed by a main controller which in turn prevent operation of traffic signals to control traffic flow at the any passway or road or highway or jammed area or intersection to which the emergency vehicle is approaching. After a predetermined interval when an emergency vehicle has passed through an any passway or road or highway or jammed area or intersection the display system is deactivated and the traffic signals are returned to the traffic light control system. Also, the system also provides for audio warnings at an any passway or road or highway or jammed area or intersection to protect pedestrians who may not be in a position to see visual warnings or for various reasons cannot hear the approach of emergency vehicles. The invention is to motivate people based on educating traffic laws and moral behaviors resulting in safer driving environment and to following the motto of SAVE LIVES by providing urgent emergency corridor for the ambulance vehicle.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039146 A

(19) INDIA

(22) Date of filing of Application :10/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM AND METHOD FOR SMART INVENTORY MANAGEMENT

(51) International classification	:G06Q0010080000, G06Q0010000000, G01N0033140000, G01K0001020000, G06Q0050120000	(71) <b>Name of Applicant :</b> <b>1)UdyogYantra Technologies LLP</b> Address of Applicant :Flat B-601, Kesarwani Apartments, Plot 4, Sector 5, Dwarka, New Delhi-110075, India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)JAIN, Ankur</b>
(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 end to end management system of food inventory for commercial kitchens, restaurants or any fresh/ready to eat/packaged food manufacturing operations. In particular, the present invention relates to identify and authenticate the quality & quantity of the incoming inventory into a commercial kitchen, print tamper proof labels of the inventory, measure and digitize the quality and quantity parameters like weight, temperature, size, freshness etc., manage consumption discard and expiry and places orders for inventory about to expire automatically for the kitchen to enable automated and digitized inventory management and waste control & increased service speed and efficiency for the commercial kitchens, abbreviated as SIMS (Smart Inventory Management System). SIMS is based on Artificial Intelligence technologies, IOT (Internet of things), and Cloud Computing. The system includes artificial intelligence technologies on cloud for identification, authentication, and quality cum freshness estimation of incoming food inventory and at the time of consumption for final food preparation as well. AI is also used to authenticate the operator through facial recognition. Further Internet of Things (IOT) nodes are utilized to acquire contactless measurement of different parameters of the inventory like weight, temp, size, image & gaseous emissions simultaneously at various points from incoming supplies to the point where the food inventory is either used for manufacturing finished food or discarded.

No. of Pages : 27 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039228 A

(19) INDIA

(22) Date of filing of Application :10/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CONVERTIBLE AND DOUBLE LOCK CAP

(51) International classification	:H01R0013436000, A61J0001140000, E05B0009100000, E05B0077280000, C08L0023040000	(71) <b>Name of Applicant :</b> <b>1)MRINAL DOVAL</b> Address of Applicant :Doon Trafalgar Apartments, House C- 204, Dhoran Khas, Near IT Park, Dehradun, Uttarakhand - 248001, India. Uttarakhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MRINAL DOVAL</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a convertible and double lock cap (1), which is a security cap or closure for bottle or bottle like containers (3). More particularly, the invention discloses a convertible and double lock cap (1) for bottle (3) having specific elongated neck profile (2). The cap (1) comprises three cap parts, wherein the cap can be used either with all the three parts or only two parts, which comprises double lock security and tamper evident means.

No. of Pages : 37 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039248 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DLVC- INTELLIGENT PROGRAMMABLE INTERFACE: DRIVER LESS VEHICLE CONTROLLER WITH INTELLIGENT PROGRAMMABLE INTERFACE.

<p>(51) International classification :G01S0017020000, G01S0017930000, G05D0001020000, G08G0001160000, G01P0003488000</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 Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mr. PRAVEEN KUMAR RAI (RESEARCH SCHOLAR)</b> Address of Applicant :Address-1: SHRI VENKATESHWARA UNIVERSITY, GAJRAULA, U.P, INDIA Address-2: FLAT NO - B1/607, HIMSAAGAR APARTMENT, BRO SOCIETY GREATER NOIDA, GAUTAM BUDDHA NAGAR, U.P-201310, INDIA. E-mail: praveen19jul@gmail.com Uttar Pradesh India</p> <p><b>2)Prof.(Dr.) PAWAN KUMAR BHARTI (VICE CHANCELLOR)</b></p> <p><b>3)Dr. RAKESH KUMAR YADAV ( DIRECTOR)</b></p> <p><b>4)Dr. ASTHA SHARMA (ASSISTANT PROFESSOR)</b></p> <p><b>5)Mr. VIPIN RAI (RESEARCH SCHOLAR)</b></p> <p><b>6)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. PRAVEEN KUMAR RAI (RESEARCH SCHOLAR)</b></p> <p><b>2)Prof.(Dr.) PAWAN KUMAR BHARTI (VICE CHANCELLOR)</b></p> <p><b>3)Dr. RAKESH KUMAR YADAV ( DIRECTOR)</b></p> <p><b>4)Dr. ASTHA SHARMA (ASSISTANT PROFESSOR)</b></p> <p><b>5)Mr. VIPIN RAI (RESEARCH SCHOLAR)</b></p> <p><b>6)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</b></p>
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(57) Abstract :

Our Invention DLVC- Intelligent Programmable Interface is an autonomous controller for a vehicle and also the controller has a processor configured to receive position signals from position sensors, speed signal from speed sensor, direction signal from direction sensor and to generate operation control signals defining an updated travel path for the vehicle. The invented technology the controller has a intelligent programmable interface providing communication among the position sensors, speed sensor, direction sensor the operation control mechanisms and the processor. The invented technology also controller is configured to optimized normalize inputs to the processor from the position sensors speed sensor, direction sensor and to generate compatible operation control signals applied as the inputs to the operation control mechanisms. The invented technology the processor and the intelligent programmable interface define a auto self-contained unit configurable for operation with a variety of different remote sensors and different remote operation control mechanisms.

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

(54) Title of the invention : METHODS AND MODEL FOR WORKLIFE BALANCE OF WOMEN ENTREPRENEURS

<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>:G06Q0010060000, G06Q0010100000, G06Q0010040000, G06Q0050000000, H04W0028220000</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><b>1)Dr. Purvi Pareek</b> Address of Applicant :Alumni (Jain deemed to be University, Bengaluru) , Former research analyst (Management Development Institute, Gurugram) ,Residential Address : 204, Apeksha atelier, G - 6, Kanak Varindawan, Sirsi road, Jaipur Rajasthan India</p> <p><b>2)Dr. Chaya Bagrecha</b></p> <p><b>3)Dr.Kavitha R Gowda</b></p> <p><b>4)DR. NIDHI ARORA</b></p> <p><b>5)Dr Priti Verma</b></p> <p><b>6)Dr. Chidanand Prasad R</b></p> <p><b>7)Dr Geetha Nagaraju</b></p> <p><b>8)Dr.Rashmi Ram Hunnur</b></p> <p><b>9)Dr.Piyush Kumar Pareek</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Purvi Pareek</b></p> <p><b>2)Dr. Chaya Bagrecha</b></p> <p><b>3)Dr.Kavitha R Gowda</b></p> <p><b>4)DR. NIDHI ARORA</b></p> <p><b>5)Dr Priti Verma</b></p> <p><b>6)Dr. Chidanand Prasad R</b></p> <p><b>7)Dr Geetha Nagaraju</b></p> <p><b>8)Dr.Rashmi Ram Hunnur</b></p> <p><b>9)Dr.Piyush Kumar Pareek</b></p>
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(57) Abstract :

The increase in the rate of capital formation is an integral part of the economic development of a country. An women entrepreneur stimulates the economic forces in capital formation through his undertakings. When there is industrial development by means of establishing new industries at different locations, employment is generated, regional disparity is reduced and the better standard of living is achieved. Thus, an entrepreneur not only is the source of a business activity, but, also influences a rapid, continuous and balanced economic development. Thus, the Indian economy needs more women entrepreneurs. The successful women in business encourages and attracts more women to become entrepreneurs themselves. And therefore, these models have been developed for understanding the challenges to the core and making India a more diversified and developed nation by implementing and bringing the recommended changes in policies and training modules in various schemes by Government mentioned in the model by women entrepreneurs themselves.

No. of Pages : 13 No. of Claims : 2



(54) Title of the invention : DACH- HEALTH NOTIFICATION: IOT BASED HEALTH NOTIFICATION AND DOCTOR AVAILABILITY CHECKING IN HOSPITAL.

<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>:G06T0007246000, G06F0003010000, A61B0005000000, G06Q0050220000, G06K0009000000</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><b>1)Mr. VIPIN RAI (RESEARCH SCHOLAR)</b> Address of Applicant :Address-1: SHRI VENKATESHWARA UNIVERSITY, GAJRAULA, U.P. INDIA Address-2: FLAT NO - A2, 344, HIMSAGAR APARTMENT, P4, GREATER NOIDA, GAUTAM BUDDHA NAGAR, U.P.- 201310, INDIA. E-Mail: vipinrai82@gmail.com Uttar Pradesh India</p> <p><b>2)Prof.(Dr.) PAWAN KUMAR BHARTI ( VICE CHANCELLOR)</b></p> <p><b>3)Dr. RAKESH KUMAR YADAV ( DIRECTOR)</b></p> <p><b>4)Mr. PRAVEEN KUMAR RAI (RESEARCH SCHOLAR)</b></p> <p><b>5)Mrs. HEENA KHERA (ASSISTANT PROFESSOR)</b></p> <p><b>6)Mrs. NIKITA (ASSISTANT PROFESSOR)</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. VIPIN RAI (RESEARCH SCHOLAR)</b></p> <p><b>2)Prof.(Dr.) PAWAN KUMAR BHARTI ( VICE CHANCELLOR)</b></p> <p><b>3)Dr. RAKESH KUMAR YADAV ( DIRECTOR)</b></p> <p><b>4)Mr. PRAVEEN KUMAR RAI (RESEARCH SCHOLAR)</b></p> <p><b>5)Mrs. HEENA KHERA (ASSISTANT PROFESSOR)</b></p> <p><b>6)Mrs. NIKITA (ASSISTANT PROFESSOR)</b></p>
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(57) Abstract :

Our Invention DACH- Health Notification • is directed to a remote health-notification and doctor™s location tracking system and process for the remote notification and supervision of outpatient vital signs using videoconferencing techniques. The invented technology also includes doctors, sub-doctors, virtual doctors, doctor™s sites at least one medical professional site a patient site and a computer program operative to facilitate communications between the doctors site the medical professional site and the patient site to provide remote health monitoring. The invented technology also includes the video images, audio response, and physiological data of a patient are digitally transmitted from a patient to a remote health care provider, doctors, sub-doctors over a communications network. A real-time computer vision system tracks one or more doctors moving in a scene using a target location technique that does not involve searching and the imaging hardware includes a color camera, frame grabber, and processor. The software consists of the low-level image grabbing software and a tracking algorithm and the system tracks doctors based on the color, motion, and/or shape of the doctors in the image. A color matching function is used to compute three measures of the target's probable location based on the target color, shape, and motion. The method then computes the most probable location of the target using a weighting technique and once the system is running, a graphical user interface displays the live image from the color camera on the computer screen. The operator can then use the mouse to select a target for tracking. The system will then keep track of the moving target in the scene in real-time.

No. of Pages : 21 No. of Claims : 6

(54) Title of the invention : COVID-19 SAFETY MACHINE FOR PORTABLE CART

<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>:G06F0021560000, A61B0005020500, G06Q0010080000, G06Q0030060000, C12N0015877000</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><b>1)Dr. Shivani Batra</b> Address of Applicant :KIET Group of Institutions, Ghaziabad - Meerut Highway, NH-58, Ghaziabad, Uttar Pradesh Uttar Pradesh India</p> <p><b>2)Dr. Sanjeev Kumar</b></p> <p><b>3)Ms. Madhu Gautam</b></p> <p><b>4)Ms. Vaishali Arya</b></p> <p><b>5)Ms. Namrata Sukhija</b></p> <p><b>6)Ms. Kalpna Sagar</b></p> <p><b>7)Ms. Neha Kapoor</b></p> <p><b>8)Dr Geeta Rani</b></p> <p><b>9)Dr. Vijaypal Singh Dhaka</b></p> <p><b>10)Dr. Dilleshwar Pandey</b></p> <p><b>11)Mr. Amit Gahlot</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Shivani Batra</b></p> <p><b>2)Dr. Sanjeev Kumar</b></p> <p><b>3)Ms. Madhu Gautam</b></p> <p><b>4)Ms. Vaishali Arya</b></p> <p><b>5)Ms. Namrata Sukhija</b></p> <p><b>6)Ms. Kalpna Sagar</b></p> <p><b>7)Ms. Neha Kapoor</b></p> <p><b>8)Dr Geeta Rani</b></p> <p><b>9)Dr. Vijaypal Singh Dhaka</b></p> <p><b>10)Dr. Dilleshwar Pandey</b></p> <p><b>11)Mr. Amit Gahlot</b></p>
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(57) Abstract :

This invention relates to a machine and process of suspecting the COVID-19 patient who has purchased goods from portable carts roaming around streets. Particularly this invention relates to a machine for scanning and recording the temperature of the seller that can be used by buyer to verify the seller vitals before purchasing goods. This invention also supports in tracking the contact history of seller in case of COVID-19 virus detection that will aid in breaking the chain of COVID-19 community transfer. In this invention there is provided a machine comprising a biometric scanner, is provided to authenticate the seller, adapted to be connected to a database server, a temperature scanner, being provided to collect the body temperature of the seller, location tracker, being provided to track the location of the seller, registration module, a biometric scanner, being provided to verify from government authenticated database, a Q-R code scanner, being provided to scan the Q-R code generated by seller machine using Q-R code generator, and a payment gateway.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039450 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IOT BASED GABION MONITORING SYSTEM USING LORA AND ZIGBEE NETWORK

(51) International classification	:H04L0029080000, E02D0029020000, H04W0084180000, H04W0004800000, H04W0088160000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Amit Kumar Thakur</b>
(86) International Application No	:NA	<b>3)Lovi Raj Gupta</b>
Filing Date	:NA	<b>4)Anita Gehlot</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(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 IOT based gabion monitoring system using LoRa and ZigBee network which consists of n<sup>TM</sup> number of monitoring nodes (101), local monitoring unit (104), gabion gateway node (105) and cloud server (106). In the present disclosure, the Zigbee (11) based communication protocol is embedded in the monitoring node for sending the alert to nearest local monitoring unit (104) and through LoRa (Long Range) communication the alert is sent from the monitoring unit (104) to the gateway node (105).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039455 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATIC SECURITY ALERT SYSTEM

(51) International classification	:H04L0029080000, A61B0005000000, G08B0025010000, G08B0027000000, H04M0011040000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Shaik Vaseem Akram</b>
(33) Name of priority country	:NA	<b>2)Lovi Raj Gupta</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</b>
Filing Date	:NA	<b>4)Amit Kumar Thakur</b>
(87) International Publication No	: NA	<b>5)Anita Gehlot</b>
(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 automatic security alert system especially for women, which consists of a smart wrist system (202), a mobile application (201) with registered mobile number and police station, and a cloud server (203). In the present disclosure, if the input signal received from the optical heart beat sensor (104) crosses a threshold value, then it sends the current GPS location to the registered number and police station via the GSM/GPRS module. In the present invention, the real-time data can be accessed by registered family members through the mobile application (201).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039456 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MULTIPLE SPOT LIGHT BULB AT SACRED PLACES

(51) International classification	:G01N0021640000, G02B0006270000, G06Q0050000000, F21K0009233000, F21S0002000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Parampreet Kaur</b>
(33) Name of priority country	:NA	<b>2)Mandeep Singh</b>
(86) International Application No	:NA	<b>3)Ruhul Amin Choudhury</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 :

The present invention relates to a multiple spot light system at sacred places which consists of LED lights, multiple spot glass lenses, AC to DC converter, and a holder. In the present invention, the bulb is fitted in the roof which emits multiple spot lights on the floor making a circular light spot at a suitable distance to ensure social distancing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039457 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN ADVANCED WIRELESS EARTHQUAKE ALARM SYSTEM FOR EARLY WARNING

(51) International classification	:G01V0001000000, G08B0021100000, H04L0029080000, G08B0021040000, G08B0025100000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara- 144411 Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Dharam Buddhi</b>
Filing Date	:NA	<b>4)Amit Kumar Thakur</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(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 advanced wireless earthquake alarm system which generates an alert signal to inform earthquake is arriving. This invention consists of a plurality of seismic sensors, high performance computing unit (104), LoRa communication for transmitting sensors values to server (108) for earthquake detection. This system consumes less power and provides an alert signal to PC/mobile application (109). This invention also facilitates fast alert system at long distances.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039458 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ZIGBEE AND CLOUD BASED VEHICLE THEFT INTIMATION SYSTEM

(51) International classification	:G07C0005080000, G07C0005000000, B60R0025102000, G01S0005000000, H04W0004800000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Amit Kumar Thakur</b>
Filing Date	:NA	<b>4)Lovi Raj Gupta</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(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 ZigBee and cloud based vehicle theft intimation system which consists of two different units out of which one unit is installed on the vehicle which is known as vehicle unit and another is a controller unit. In the present disclosure, the GPS (102) sends the location information to the owner of the vehicle through the ZigBee communication (104) and gateway node (108) as the vehicle starts moving. In the present invention, the cloud based mobile application (109) activates the buzzer (105) on time so that the theft is intimated to the owner.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039459 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ANTI- DIABETIC SUSTAINED RELEASE FORMULATION USING GRAFTED COPOLYMER OF FENUGREEK GUM

(51) International classification	:A61K0031155000, A61K0036480000, A61K0009200000, C08F0255020000, A61K0031426000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Asha Gandhi</b>
(33) Name of priority country	:NA	<b>2)Surajpal Verma</b>
(86) International Application No	:NA	<b>3)Manish Vyas</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 :

The purpose of the present investigation is to prepare formulation containing grafted copolymer of fenugreek gum using acrylamide as grafting components. The synthesized grafted copolymers were further used to carry out the sustained release solid dosage formulation of metformin HCl. In this formulation, both fenugreek gum & metformin HCl shows better antidiabetic effect as sustained manner. Therefore, there will be need of developing a formulation with synergistic effect as antidiabetic activity.

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



(54) Title of the invention : A NOVEL ALOE VERA TREATMENT FOR UTERIAN CANCER USING MTT ASSAY, ROS ANALYSIS AND FLUORESCENCE ANISOTROPY

<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>:A61K0031365000, A61K0031167000, C12N0015110000, A61K0031700000, C07D0491140000</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><b>1)Dr. Shashank Tiwari</b> Address of Applicant :Director,Lucknow Model College of Pharmacy, AjeetanKhrea Road, Sadrauna, Lucknow, U.P. (India) 226009 Uttar Pradesh India</p> <p><b>2)Dr. Mohammed Rageeb Mohammed Usman</b></p> <p><b>3)Mr. Meghraj Vivekanand Suryawanshi</b></p> <p><b>4)Dr. Priyesh P. Gandhi</b></p> <p><b>5)Prashant Kumar</b></p> <p><b>6)Dr. Shalini Kulshrestha</b></p> <p><b>7)Dr. Sufiyan Ahmad Raees Ahmad</b></p> <p><b>8)Dr. Mohammed Imran Siraj Ahmed</b></p> <p><b>9)Ms. Shreya Talreja</b></p> <p><b>10)Dr P Karthigeyan</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Shashank Tiwari</b></p> <p><b>2)Dr. Mohammed Rageeb Mohammed Usman</b></p> <p><b>3)Mr. Meghraj Vivekanand Suryawanshi</b></p> <p><b>4)Dr. Priyesh P. Gandhi</b></p> <p><b>5)Prashant Kumar</b></p> <p><b>6)Dr. Shalini Kulshrestha</b></p> <p><b>7)Dr. Sufiyan Ahmad Raees Ahmad</b></p> <p><b>8)Dr. Mohammed Imran Siraj Ahmed</b></p> <p><b>9)Ms. Shreya Talreja</b></p> <p><b>10)Dr P Karthigeyan</b></p>
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(57) Abstract :

In our social and economic life we hardly take care of our food we are taking. the uses of various pesticides, preservatives, etc. turn the foods into poison. Moreover the side effects of these pesticides and preservatives, etc. is dangerous as because it leads to initiation of different cancer. We found Alovera to be a potential drug as the term Aloes stand for the dried juice, which flows from transversely cut bases of its leaves . . Pharmacologically it is an immunity booster and detoxifies the system. It is recommended in adjuvant therapy with antibiotics, NSAIDs (Nonsteroidal Anti-Inflammatory Drugs) and chemotherapy to eliminate drug induced gastritis and other adverse effects. Alovera extract on Uterian Cancer cell line and the observed some significant result in MTT assay (Fig 1) , followed by ROS analysis (Fig 2) and Fluorescence Anisotropy (Fig 3), from which we have decided to target some genes responsible for Uterian Cancer BRCA2 (1MIU,5FOV,1UTU) and pharmacophores (EMODIN-4FBX,3U87,3QQW) from Alovera. After identification of the genes and pharmacophores we did the docking (Fig 4 and Fig 5) and got some positive value. From this analysis report this can be concluded that the some pharmacophores of Alovera have an effect on the Uterian Cancer. Some of the animal studies followed by the isolation of the targeted pharmacophore and the effect on gene (in-vitro and in-vivo analysis) are on process.

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

(54) Title of the invention : AMLD-DEBUGGING GRIDS: AUTOMATIC DEBUGGING GRIDS WITH MACHINE, DEEP LEARNING TECHNIQUES.

(51) International classification	:G06F0011360000, G06Q0010060000, G06F0009500000, G06F0008610000, G09B0005020000	(71)Name of Applicant : <b>1)Dr. KIRTI SHUKLA</b> Address of Applicant :FLAT NO 104, SUKHDHAM VILLA, SINGHPUR CHAURAHA, BITHOOR ROAD, KANPUR- 208017, UP, INDIA. Uttar Pradesh India <b>2)Mr. AMIT SHUKLA</b> <b>3)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</b>
(31) Priority Document No	:NA	<b>(72)Name of Inventor :</b> <b>1)Dr. KIRTI SHUKLA</b> <b>2)Mr. AMIT SHUKLA</b> <b>3)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)</b>
(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 :

Our invention AMLD-Debugging Grids • is a validation method can include the step of identifying a host within a grid environment, wherein the host is a software, hardware, application oriented software, monile apps and other required application software can used. The invented technology a ghost agent can be associated with the host, where the ghost agent can move within the grid environment and the actions of the host can be replicated by the ghost agent the data related to the replicated actions can be compared with validation data. Validation output can be generated based upon the comparison. The invented technology ia s Generating a description of a test grid environment for use in a grid computing environment at the database containing a number of test snapshots is generated. The invented technology also each test snapshot reflects a previously used grid test environment and each test snapshot includes a grid configuration used to implement a particular test scenario for a design and defined application. The invented technology when a new desired test scenario is generated a description of the new test scenario is entered as a query to the database and based on the information in the database a proposed test grid environment description is produced.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039726 A

(19) INDIA

(22) Date of filing of Application :14/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR FINANCIAL FRAUD AND ANALYSIS

(51) International classification	:G06Q0040000000, G06Q0020400000, G06Q0040080000, G06N0003080000, G06N0020000000	(71) <b>Name of Applicant :</b> <b>1)MITHLESH GUPTA</b> Address of Applicant :TOWER S4, FLAT 1102, ELEDECCO AMANTRAN, SECTOR 119, NOIDA, UTTAR PRADESH, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)NITIN KUMAR GOEL</b>
(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 and method for financial fraud and analysis is disclosed. The system includes a financial claim data processing subsystem configured to process data associated with a financial claim, a financial feature selection subsystem configured to select one or more financial features from processed data, a financial claim fraud detection subsystem configured to examine one or more values representative of the one or more financial features selected and predict a financial claim fraud, an outlier fraud detection subsystem configured to detect at least one outlier fraud using an unsupervised machine learning technique, a financial claim fraud analysis subsystem configured to analyze the financial claim fraud predicted and the at least one outlier fraud detected based on a predefined set of fraud analysis rules, a fraud amount prediction subsystem configured to predict an amount of fraud analyzed by the financial claim fraud analysis subsystem. FIG. 2

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039849 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL ANTIBACTERIAL AND ANTIVIRAL HAND SANITIZER FROM NATURAL PRODUCTS AND PROCESS THERE OF

(51) International classification	:A01N0031020000, A61K0031045000, A61K0031200000, A61K0045060000, A23L0033105000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Ashish Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr Praveen Kumar Sharma</b>
(86) International Application No	:NA	<b>3)Dr Anil Kumar</b>
Filing Date	:NA	<b>4)Dr. Viraj Hanumant rao Mankar</b>
(87) International Publication No	: NA	<b>5)Dr Navneet Khurana</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

With the speedup of development across the globe, there is exponential growth in number of viral and bacterial infections due to the transformation of these microorganisms into more drug resistant forms. So there is need to control the spread of the infections caused by these microbes as they can widely spread through different means. The most common mode of transportation of these microbes is through contact with the infected person. One of the most effective method of controlling spread of this kind of infection is through hand cleaning and sanitization. Several hand sanitizers are available in market but they are less effective in controlling viral infections due to low percentage of alcohol or active chemical constituents in them. The present invention is about using natural ingredients for the formation of hand sanitizer.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039851 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A FACE MASK WITH BUILT-IN VAPORIZER

(51) International classification	:A61M0015000000, A61M0016060000, A61M0011040000, A61M0015060000, A61M0016000000	(71)Name of Applicant : <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Gagandeep Singh Raheja</b>
(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 face mask with built-in vaporizer which consists of an inhaler clubbed with vaporizer in two pockets placed along the extreme right and left position of the mask, an exhaler with non-return value, filters for vaporizing fluid, adjustable clip for tightening and attachment strings. In the present disclosure, the inhalation process starts from the nostrils which suck the air coming from the vaporizing areas which accumulate the filtered inhaling droplets with liquefaction of the accumulated mucus for keeping the respiratory tract clean.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039852 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NUTRI-CEREALS BASED BAKERY SHELLS FOR DIABETIC AND ITS ASSOCIATED DISEASED PATIENTS

(51) International classification	:A61K0031202000, A23L0033105000, A23L0033160000, A23L0033120000, A61K0031685000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely professional University Jalandhar Delhi GT road phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ashwani Kumar</b>
(33) Name of priority country	:NA	<b>2)Ankur Singh</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 :

A novel nutritive edible composition that contains several essential nutrients including proteins (essential amino acids), minerals (calcium, potassium, phosphorus, magnesium, Iron, Zinc, Manganese and Selenium), phytochemicals (phytates, polyphenols and tannins), PUFA (Poly Un-Saturated Fatty Acids, Omega-3,6), Vitamines (E,K, B-complex) dietary fibers from a blend of wheat flour, finger millet and pearl millet flour. The composite blend is processed to prepare edible bakery shells and edible bakery supplements by adopting a novel method for making it. The composition has very good nutritive and medicinal value to treat several ailments such as diabetes, high blood pressure, constipation, diarrhea and stomach ulcers.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039853 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION OF FISETIN AND PROCESS THEREOF

(51) International classification	:C07D0471040000, A61K0009107000, A61K0009480000, B82Y0005000000, A61K0047140000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Pradnya Gunjal</b>
(33) Name of priority country	:NA	<b>2)Rajan Kumar</b>
(86) International Application No	:NA	<b>3)Sachin Kumar Singh</b>
Filing Date	:NA	<b>4)Dr. Monica Gulati</b>
(87) International Publication No	: NA	<b>5)Narendra Kumar Pandey</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Bimlesh Kumar</b>
Filing Date	:NA	<b>7)Bhoopinder Kapoor</b>
(62) Divisional to Application Number	:NA	<b>8)Amit Mittal</b>
Filing Date	:NA	<b>9)Navneet Khurana</b>
		<b>10)Vijay Kumar</b>
		<b>11)Devendra Kumar Pandey</b>

(57) Abstract :

A colon targeted drug delivery of fisetin. The SNEDDS of fisetin are easy to make and industrially scalable. The process is robust and simple. The animal studies and stability of the formulation show the potency of the drug for the said disease.

No. of Pages : 29 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039859 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL CAPSULE FOR MICROGREEN EXTRACT

(51) International classification	:G09B0019000000, A23L0002020000, A23L0019000000, G09B0005060000, A23L0007104000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Prasad Rasane</b>
(33) Name of priority country	:NA	<b>2)Dr Chandra Mohan Mehta</b>
(86) International Application No	:NA	<b>3)Ms. Jyoti Singh</b>
Filing Date	:NA	<b>4)Dr Sawinder Kaur</b>
(87) International Publication 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 said invention is about a capsular formulation of microgreen extracts so that their nutritional value remains intact. The invention is about keeping the nutritional content intact as well as easy for transportation and use. The technology is easy for scale up and easy to use.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039861 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A REAL-TIME SOCIAL DISTANCING MOINTORING SYSTEM IN AN ORGANIZATION

(51) International classification	:G06Q0050000000, H04L0029080000, G08B0021020000, G01S0005020000, G06Q0010100000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Manish Gupta</b>
(33) Name of priority country	:NA	<b>2)Rajesh Singh</b>
(86) International Application No	:NA	<b>3)Anita Gehlot</b>
Filing Date	:NA	<b>4)Yasir Afaq</b>
(87) International Publication 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 real-time social distance monitoring system in an organization enabled through IoT and RFID technique. The RFID tagged ID card generates an alert upon detection of social distancing not being followed between the employees. A cloud server collects and stores the information to the local database for further access of the concern authority. A web-application grants access to the concern authority to evaluate the social distancing performance practice by each employee and grants rewards to those who perform well. [To be published with figure 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039862 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A CUSTOMIZED VIBRATION ENABLED WEARABLE WAKE UP ALARM DEVICE

(51) International classification	:H02J0007000000, G06F0001160000, A61B0005000000, A44C0005000000, H04M0001670000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Suverna Sengar</b>
(33) Name of priority country	:NA	<b>2)Prashant Kumar</b>
(86) International Application No	:NA	<b>3)Rajesh Singh</b>
Filing Date	:NA	<b>4)Anita Gehlot</b>
(87) International Publication No	: NA	<b>5)Pawandeep Kaur</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Lovi Raj Gupta</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A customized wearable device to wake up a person from sleep by enabling vibration in the user<sup>TM</sup>s wrist. The device comes with a keypad to enable/ disable voice based alarm. The device is light weight and easy to carry in the wrist. The device provides in-built rechargeable battery with charging unit of standby duration of 8-10hrs including idle time.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039864 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

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(54) Title of the invention : A NOVEL CHEST VIBRATORY GLOVE FOR AIRWAY CLEARANCE

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(51) International classification	:A61H0023020000, A41D0019000000, A61H0023000000, A61K0031200000, G01V0001000000	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Thiagrajan Subramaniam</b>
(86) International Application No	:NA	<b>3)Dr. Suresh Mani</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 :

A novel chest vibratory glove for pulmonary clearance which has plurality of vibrators for continuous and localized pulses. The gloves are rechargeable and come in vibrant colours of silicone rubber to attract patients of all ages. The gloves are specifically designed to remove the secretions from the body especially pulmonary area.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039868 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM TO DETECT FACE MASK AND BODY TEMPERATURE OF A USER AT ENTRANCE

(51) International classification	:G06K0009000000, G01K0013000000, A61B0005010000, E06B0011080000, G06N0003080000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ruhul Amin Choudhury</b>
(33) Name of priority country	:NA	<b>2)Mandeep Singh</b>
(86) International Application No	:NA	<b>3)Sorabh Lakhnpal</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 :

A novel system to detect face mask and body temperature of the user at the entrance. The system captures the image of the user through thermal camera , process the image through deep learning algorithm , upon allowing the user access to enter through the entrance or the turnstile gate. The system is cost-effective and provides more accuracy compared to the existing technology. This system is specifically designed for the COVID-19 precautionary measure in order to maintain the norms of wearing mask and regular monitor of body temperature of the people in the premises. This system provides a preventive measure to stop the spread of the COVID-19 diseases and seek immediate medical incase a user in having abnormal body temperature.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039869 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A HEALTH CONDITION MONITORING SYSTEM OF THE TRANSFORMER AND GENERATOR

(51) International classification	:H04L0029080000, G16H0050200000, H04W0084180000, G05B0023020000, G07C0003000000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Amit kumar Thakur</b>
Filing Date	:NA	<b>4)Lovi Raj Gupta</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(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 health condition monitoring system of the transformer and generator using LoRa which consists of a number of health monitoring motes, LoRa gateway (13) and a cloud server (14) connected with web and mobile application. In the present disclosure, health monitoring motes sense the voltage, current, and temperature parameters and then communicate it to the cloud server (14) using LoRa (Long Range) module (202) which is integrated with health monitoring mote for sending the reliable and secure sensory data to the server (14).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039870 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART SOLAR ENERGY BASED MOBILE COVER

(51) International classification	:H02J0007000000, H01M0010460000, A61B0005110000, H04M0001725000, A61B0005053000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara- Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Dharam Buddhi</b>
(86) International Application No	:NA	<b>3)Amit Kumar Thakur</b>
Filing Date	:NA	<b>4)Anita Gehlot</b>
(87) International Publication No	: NA	<b>5)Shaik Vaseem Akram</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Namita Kaur</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A smart solar energy based mobile cover overcomes the challenges facing by the mobile users for maintaining the charging of mobile phone for a long time. The present invention consists of solar cells which harvests the solar energy and store in power management system (103) in electrical form for charging the mobile phone. This system provides buzzer (109) to inform the user when there is need to remove the charging cable from the mobile. The present invention also facilitates user to check information about amount of voltage left in power unit and other parameters on mobile app via Bluetooth Low Energy (110) wirelessly.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039871 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A WOUND TAPE WITH OCTAGONAL INSCRIBED CONVEX CUP

(51) International classification	:A63B0049080000, A61F0013539000, B31B0050810000, F04C0002100000, E04G0011360000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara 144411, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gagandeep Singh Raheja</b>
(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 wound tape with octagonal inscribed convex cup which consists of an octagonal inscribed push-in convex cup, adjustable length adhesive wound tape with holes on one side and dots bulging out on the other side so that it can be tightly clubbed on fingers legs or arms. In the present disclosure, the convex circular portion inscribed with an octagon when pressed from the outer side with the finger brings the point of application of the filler medication near to the wound. In the present invention, the fixing tapes with suitable adhesive and locking arrangement is held tightly for or longer duration.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011039873 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM FOR ROUND THE CLOCK MONITORING OF PLANT GROWTH PATTERN USING HIGH RESOLUTION CAMERA

(51) International classification	:H04N0017000000, G01N0027327000, A01G0027000000, G01N0033487000, G08B0013196000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Jalandhar-Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Neeta Raj Sharma</b>
(86) International Application No	:NA	<b>3)Dharam Buddhi</b>
Filing Date	:NA	<b>4)Manoj Kumar Jena</b>
(87) International Publication No	: NA	<b>5)Anita Gehlot</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Swapnil Bagwari</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a system to monitor the plant growth pattern using high resolution camera. This system consists of raspberry pi as main controller unit to stream multiple cameras in real-time. The present invention uses performance evaluation algorithm for further analysis and interpretation. The round the clock observation of plant growth pattern provides the morphological changes occurring in the plant with response to different nutrients, external stimuli, environmental factors with high resolution camera. The present invention needs less manpower and consumes less time compares with traditional approaches.

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



(54) Title of the invention : SUAV-WOMEN SECURITY: WOMEN SECURITY USING STREET LIGHT AND AUTO RUN UNMANNED AERIAL VEHICLE USING IOT BASED TECHNOLOGY.

(51) International classification	:G05D0001100000, B64C0039020000, G05D0001120000, G05D0001000000, G01S0019130000	(71)Name of Applicant : <b>1)Dr. VINAY RISHIWAL (PROFESSOR)</b> Address of Applicant :DEPARTMENT OF CSIT, FET, MJP ROHILKHAND UNIVERSITY, BAREILLY, UP, INDIA. Contact number: +91-9412149229 E-mail: vianyrishtwal@gmail.com Uttar Pradesh India
(31) Priority Document No	:NA	<b>2)Prof. S. S. BEDI (PROFESSOR)</b>
(32) Priority Date	:NA	<b>3)Dr. RAKESH KUMAR YADAV (DIRECTOR)</b>
(33) Name of priority country	:NA	<b>4)Ms. PREETI YADAV (ASSISTANT PROFESSOR)</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. VINAY RISHIWAL (PROFESSOR)</b>
(87) International Publication No	: NA	<b>2)Prof. S. S. BEDI (PROFESSOR)</b>
(61) Patent of Addition to Application	:NA	<b>3)Dr. RAKESH KUMAR YADAV (DIRECTOR)</b>
Number	:NA	<b>4)Ms. PREETI YADAV (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

Our Invention SUAV-Women Security • is a street lighting system and Auto Run Unmanned Aerial Vehicle Using IoT based Technology is to provide having a movement system a light source repositionable via the moving object. A sensor, controller and an IoT based communication system the controller may control characteristics of the light emitted by the light source and detect the object who needed to help then rotation of the panel by the movement system receiving signal information from the sensor. The invented technology the movement system, the controller, the sensor, and the communication system are installable in a drone. Wearable apparatus may be used with the system. Objects may be tracked and illuminated. An aerial device automatically maintains a relative position with respect to a target and the aerial device can set a relatively multi-dimensional position with respect to the target. The invented technology the target can have an indicator (e.g., a visual marker for image capture tracking, or a radio indicator for tracking via signaling) that the aerial device reads. The aerial device can automatically adjust its path in response to the movement of the target as indicated by the indicator. Systems and methods for unmanned aerial vehicle (UAV) navigation are presented and a preferred, UAV is configured with at least one corridor and path, and a first UAV path is calculated.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040033 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SANITIZER DISPENSER

(51) International classification	:B05B0011000000, B67D0007360000, B65D0083200000, B30B0011020000, H01H0071020000	(71)Name of Applicant : <b>1)University of Petroleum and Energy Studies</b> Address of Applicant :Energy Acres, Bidholi, Premnagar, Dehradun, Uttarakhand, India-248007 Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Narayan Khatri</b>
(33) Name of priority country	:NA	<b>2)Dr. Shyam Pandey</b>
(86) International Application No	:NA	<b>3)Prakhar Khandelwal</b>
Filing Date	:NA	<b>4)Prince Kumar Singh</b>
(87) International Publication 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 sanitizer dispenser which is purely mechanical in nature and does not need any energy source, is low maintenance and convenient to set up. Figure 1 shows the perspective view of the sanitizing unit 100 according to an embodiment of the invention which dispenses sanitizing liquid on pressing of a pedal 1. The unit 100 comprises of a frame 2 having a chamber 3. A pair of C channel 4 is arranged parallel at a longitudinal direction upwards from the pedal 1. A bar 5 is arranged within each channel 4 which connects to parallel end of the pedal 1.; A trigger cover 6 for pressing a trigger 7 to dispense the sanitizing liquid from a dispenser 8 with the trigger 7 for dispensing the liquid. A clamp 9 is connected to the bar 5 which pushes onto the trigger cover 6. The liquid can be an alcohol based sanitizer.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040035 A

(19) INDIA

(22) Date of filing of Application :16/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR PREPARING OXYFLUORIDE LITHIUM ZINC BOROSILICATE GLASSES DOPED WITH DY<sup>3+</sup> IONS

(51) International classification	:C25D0005540000, C08L0077060000, B29B0007880000, H01C0017065000, B01J0002000000	(71)Name of Applicant : <b>1)Dr. Nisha Deopa</b> Address of Applicant :Department of Physics, Chaudhary Ranbir Singh University, Rohtak Bypass Road, Jind-126102, Haryana. Haryana India <b>2)Prof. Rajesh Punia</b> <b>3)Prof. A.S. Rao</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Poonam</b>
(33) Name of priority country	:NA	<b>2)Shivani</b>
(86) International Application No	:NA	<b>3)Anu</b>
Filing Date	:NA	<b>4)Amit</b>
(87) International Publication No	: NA	<b>5)M.K. Sahu</b>
(61) Patent of Addition to Application Number:	NA	<b>6)P.R. Rani</b>
Filing Date	:NA	<b>7)Dr. Nisha Deopa</b>
(62) Divisional to Application Number	:NA	<b>8)Prof. Rajesh Punia</b>
Filing Date	:NA	<b>9)Prof. A.S. Rao</b>

(57) Abstract :

The present invention is directed to a process for preparing Oxyfluoride Lithium Zinc Borosilicate glasses doped with Dy<sup>3+</sup> ions concentration using melt quench method, comprising the steps of ; employing high quality chemicals (analar grade) Li<sub>2</sub>O, ZnF<sub>2</sub>, B<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub> and Dy<sub>2</sub>O<sub>3</sub> as primary constituents; mixing the constituents thoroughly after weighing and smashing in an agate mortar till the uniform blend is formed; retaining the uniform blend in an alumina crucible and fired at 1275 °C in a high temperature furnace for 5 hours to get the desired melt; and transferring the high temperature liquefied sample to a metal plate made of brass at 350°C temperature and hard-pressed with an additional brass plate to acquire clear glasses of similar thickness.

No. of Pages : 26 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040065 A

(19) INDIA

(22) Date of filing of Application :16/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART SPEED LIMIT ALERT SYSTEM FOR VEHICLES AT SCHOOL ZONE

(51) International classification	:G08G0001160000, B60R0001000000, G08G0001096500, B60Q0009000000, B60Q0001500000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gangishetty Arun Kumar</b>
(33) Name of priority country	:NA	<b>2)Lovi Raj Gupta</b>
(86) International Application No	:NA	<b>3)Manish Gupta</b>
Filing Date	:NA	<b>4)Rajesh Singh</b>
(87) International Publication No	: NA	<b>5)Anita Gehlot</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A smart speed limit alert system for vehicles approaching school zone premises , in which generates an alert to the vehicle to control the speed limit in order to avoid any accidents or mishaps near the school. The system comes with a zigbee transmitter module install around the school premises and a zigbee receiver module install on the vehicle approaching the school zone. This system is more efficient to be installing on the school buses and those student<sup>TM</sup>s vehicle which come to drop or pick up from the school. This system comes with a switch to enable the operation at the required time by the school authorities and energy saving.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040066 A

(19) INDIA

(22) Date of filing of Application :16/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART SYSTEM TO MONITOR THE CROP HEALTH THROUGH LORA BASED COMMUNICATION

(51) International classification	:H04L0029080000, A01B0079000000, G06Q0050020000, A01M0007000000, G01N0021770000	(71) <b>Name of Applicant :</b> <b>1)Lovely Professional University</b> Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Rajesh Singh</b>
(33) Name of priority country	:NA	<b>2)Anita Gehlot</b>
(86) International Application No	:NA	<b>3)Swapnil Bagwari</b>
Filing Date	:NA	<b>4)Dharam Buddhi</b>
(87) International Publication 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 smart agricultural system which remotely monitors the crop<sup>TM</sup>s health in the agricultural land and establishes long range communication between the farmer and the crop . The system comes with cloud storage to store the data through network layer for further analysis. The system uses various sensors to collect the information of the crop in the agricultural land and establish communication through LoRa and WAN as the networking protocol.

No. of Pages : 10 No. of Claims : 9

(54) Title of the invention : METHODS AND SYSTEMS FOR MAINTAINING RECORDS ASSOCIATED WITH AN ENTITY

(51) International classification	:H04W0024080000, G06F0016220000, G06F0016230000, H04W0024000000, G06F0016245800	(71) <b>Name of Applicant :</b> <b>1)Lovely professional University</b> Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Parul Khurana</b>
(33) Name of priority country	:NA	<b>2)G Geetha</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 :

In an embodiment, a method of maintaining records associated with an entity is disclosed. The method includes obtaining, from each of a plurality of databases, record information associated with a plurality of records corresponding to the entity that are stored in the database and a quality parameter value representative of a quality parameter associated with the entity. The method includes determining an absolute number of records corresponding to the entity based on information obtained from each of the plurality of databases. The method includes calculating an average quality parameter value based on the quality parameter value obtained from each of the plurality of databases. The method includes uploading a value of the absolute number of records and the average quality parameter value in a mapped relationship with an identifier associated with the entity to a digital ledger.

No. of Pages : 30 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040084 A

(19) INDIA

(22) Date of filing of Application :16/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN IMPROVED DISPENSING SYSTEM

(51) International classification	:B65D0083000000, A47G0019340000, A61M0005240000, B01F0005100000, H01R0013660000	(71) <b>Name of Applicant :</b> <b>1)SAMAX</b> Address of Applicant :C/o Palco Ice Cream, House No. 1910/8 Krishna Nagar, Kurukshetra-136118, Haryana, India Haryana India
(31) Priority Document No	:NA	<b>2)PIYOJA</b>
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)SAMAX</b>
(86) International Application No	:NA	<b>2)PIYOJA</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 :

A dispensing system (100) capable to pre-set, measure and control the amount of material to be dispensed out therethrough as per the need of a user, the dispensing system (100) comprising: a parent part comprising: a container (10) used to store a particular capacity of material to be dispensed as per the need of the user having a container head (12); and a main cover (20) to cover an open top end of the container (10) in a leak proof manner; a revolved cavity (30) attached through a hinge to the container (10); and a slider unit (40) placed movably in a straight rail of the revolved cavity (30).

No. of Pages : 54 No. of Claims : 25

(54) Title of the invention : AUTOMATIC CLEANING ROBOTIC TOILET FOR COVID-19 PATIENTS

(51) International classification :A47K0013100000,  
H04B0013000000,  
E03D0009020000,  
A47K0017000000,  
A61B0006100000

(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)Prof. Rajesh Kumar**Address of Applicant :RZF-626 B, Sanjay Gandhi Marg,  
Rajnagar- II, Palam Colony, New Delhi-110077, INDIA. Delhi  
India**2)Dr.B.Arthi., MDS****3)Dr. Neel Kamal****4)Pavan Prakash Giri****5)Bhawana Lakhani****6)Dr.Pradeep Kumar Arya****7)Dr Sandeep Saxena****8)Tushar Mehrotra****9)Mr. Gaurav Kumar Rajput****10)Dr.S.Balamurugan****(72)Name of Inventor :****1)Prof. Rajesh Kumar****2)Dr.B.Arthi., MDS****3)Dr. Neel Kamal****4)Pavan Prakash Giri****5)Bhawana Lakhani****6)Dr.Pradeep Kumar Arya****7)Dr Sandeep Saxena****8)Tushar Mehrotra****9)Mr. Gaurav Kumar Rajput****10)Dr.S.Balamurugan****(57) Abstract :**

The Automatic Toilet Cleaner (ATC) for COVID-19 scenario helps the housekeeping staff/patients to make use of the ATC to clean the toilet closet in an automatic and contactless manner. Human body sensor senses the human body. The proximity sensor senses the human body distance. Human body and proximity sensors are attached to ATC control unit itself. After use the toilet by patient/anybody, the dispenser dispenses the sanitizer and cleaning brush clean the toilet closet in an automatic manner. By using this ATC, housekeeping staff/patients can make use of the ATC to clean the toilet closet in an automatic manner without touch the toilet closet.

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



(54) Title of the invention : IOT BASED WRISTWATCH FOR PATIENT HEALTHCARE MONITORING USING DEEP LEARNING COMPRISING

<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, G16H0010600000, G06Q0050220000, G16H0050200000, G16H0015000000</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><b>1)Medhavi Malik</b> Address of Applicant :Assistant Professor Computer Science Department SRM IST Delhi NCR Campus, Modinagar, Ghaziabad, Uttar Pradesh, Pin 201204 8077143440 medhavimalik28@gmail.com Uttar Pradesh India</p> <p><b>2)Madhuri Sharma</b></p> <p><b>3)Dr. T.C. Manjunath</b></p> <p><b>4)Dr. M. Madhusudhana Subramanyam</b></p> <p><b>5)Vijay Kumar Soni</b></p> <p><b>6)Shikha Sharma</b></p> <p><b>7)Deepak Dudeja</b></p> <p><b>8)Dr. Rajesh Kumar Tewari</b></p> <p><b>9)Dr. Vinod Kumar</b></p> <p><b>10)Dr. Sandeep Aggarwal</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Medhavi Malik</b></p> <p><b>2)Madhuri Sharma</b></p> <p><b>3)Dr. T.C. Manjunath</b></p> <p><b>4)Dr. M. Madhusudhana Subramanyam</b></p> <p><b>5)Vijay Kumar Soni</b></p> <p><b>6)Shikha Sharma</b></p> <p><b>7)Deepak Dudeja</b></p> <p><b>8)Dr. Rajesh Kumar Tewari</b></p> <p><b>9)Dr. Vinod Kumar</b></p> <p><b>10)Dr. Sandeep Aggarwal</b></p>
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(57) Abstract :

Health Monitoring system provides an alternative to the traditional management of patients and their health. This will reduce the hospitalization of patients, cost of health care, helps the hospital to improve the treatment process, allowing disease prevention and related lifestyle changes. Healthcare monitoring with wearables consists of a wearable wireless device with sensors that are paired with an application for a doctor to access the medical information. It very easy for patients to monitor their own health by wearing a lightweight device. wearable technologies could recover the excellence of patient care while reducing the cost of care, such as patient rehabilitation outside of hospitals. In this invention we developed a wristwatch for monitoring heart patient health condition. We used three stages for monitoring a health such as 1. Data acquisition 2. Data Processing and 3. Data Analysis. In data acquisition stage, we are collecting the patient data from wearable wristwatch which consist of pulse sensor, BP sensor, Temperature sensor and vibration sensor. The collected information<sup>TM</sup>s are then sent to cloud storage with the help of raspberry Pi Wi-Fi Module in data processing stage. Finally, the patient data are analysed i.e. Condition of patient either abnormal or normal can be classified by using deep learning MLPNN algorithm in data analysis stage. Results of the analysis are then automatically sent to the doctor and relation when a patient condition goes abnormal. This invention can help doctors prioritize patients, and provide urgent care to those who are in the most danger thereby saving lives.

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

(54) Title of the invention : ELECTRICAL INSECT TRAP

(51) International classification	:A01M0001100000, A01M0001020000, A01M0001040000, A01M0001220000, B60S0001080000	(71)Name of Applicant : <b>1)Dr. H. S. Singh</b> Address of Applicant :Principal Scientist, of ICAR-CISH, Kakori, Lucknow-226101 Uttar Pradesh India <b>2)Dr. S. Rajan</b> <b>3)Mr. Sudarshan B. Herle</b> <b>4)Mrs. Sangita P. Chougule</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. H. S. Singh</b> <b>2)Dr. S. Rajan</b> <b>3)Mr. Sudarshan B. Herle</b> <b>4)Mrs. Sangita P. Chougule</b>
(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	:	
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electrical insect trap system to trap insects in farms and houses is disclosed. The system includes a top cover (110) enclosing a UV light source (170) coupled to a hanging support pipe by a hook being provided on a top side of the top cover (110) and a ray restrictor cover (120) enclosed along a circumferential surface of the top cover (110) to restrict light to a specific area. A bucket filled with soap water and coupled over a holder ring, wherein the bucket comprises an LED lamp (180) submerged in the soap water to attract insects. A supporting pipe is provided to ensure sturdy placement of the insect trap. A control box (160) is provided for turning the trap ON/OFF and a DC port coupled to the submerged LED lamp (180) through a wire. A light sensor (130) is fitted on the top side of the top cover (110), wherein a toggle switch is turned on, the sensor (130) detects light rays above a threshold value, the system turns into a sleep mode until the light sensor (130) detects light rays below the threshold value, wherein as the system ON indicator glows the UV lamp (170) and the submerged LED lamp (180) turns on. A rain sensor is also provided in case of rainy conditions to protect the system from damages.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921019460 A

(19) INDIA

(22) Date of filing of Application :16/05/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SELF-OPERATED DEVICE FOR FEMALE VAGINAL AND UTERINE SAMPLING, INSPECTION AND PERFORMING MEDICAL PROCEDURE(S) THEREIN

(51) International classification	:A61B0090000000, A61B0017220000, A61B0034000000, A61M0005315000, A61B0017420000	(71) <b>Name of Applicant :</b> <b>1)PRAGMATECH HEALTHCARE SOLUTIONS PRIVATE LIMITED</b> Address of Applicant :17, Amrakunj Society, Race Course Road, Vadodara 390023, Gujarat, India Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ANIRBAN PALIT</b>
(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 self-operated manoeuvring device 100 for female vagina and uterine inspection, and performing medical procedure(s) therein is disclosed. The device 100 includes a hollow elongated cylindrical body 102 having a proximal end A and a distal end A<sup>TM</sup>. The distal end A<sup>TM</sup> has a smaller diameter as that of the proximal end A. A plunger 104 is configured to trail the body 102. The plunger 104 has a knob 110 and a shaft 106. The shaft 106 is attachable to at least one rotatable payload. The shaft 106 is configured to retract inside and extend out of the distal end A<sup>TM</sup> of the body 102 as pulling and pushing the knob 110 respectively. The shaft 106 is also configured to rotate as the knob 110 rotates.

No. of Pages : 36 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921023476 A

(19) INDIA

(22) Date of filing of Application :13/06/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SMART PORTABLE DEVICE AND SYSTEM FOR DISPOSAL OF SANITARY WASTE

(51) International classification	:B65F0001140000, B09B0003000000, E03C0001122000, E01H0001120000, E03F0001000000	(71) <b>Name of Applicant :</b> <b>1)PADCARE LABS PRIVATE LIMITED</b> Address of Applicant :PADCARE LABS PRIVATE LIMITED H No. 1399, Flat 102, Nita residency Mhasla- 402105,Raigad, Maharashtra (India) Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ajinkya Vikas Dhariya</b>
(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 Title: A SMART PORTABLE DEVICE AND SYSTEM FOR DISPOSAL OF SANITARY WASTE The invention discloses a safe, cost effective, portable, eco-friendly sanitary pads disposing device and system. The device is smart and automatic used for shredding and disinfecting the used sanitary pads without any environmental pollution. The system comprises of plurality of collection bins, sanitary pad disposal device, a data acquisition module, a remote server, a data transmission module etc. for remotely monitoring the status of each disposal process. Figure no 2 is to be published with Abstract.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921024182 A

(19) INDIA

(22) Date of filing of Application :18/06/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MENSTRUATION PREDICTION KIT

(51) International classification :A61F0013420000,  
G01N0033720000,  
G01N0033530000,  
A61F0013472000,  
A61B0010000000

(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)B. K. L. Walawalkar Hospital, Diagnostic and Research Center**  
Address of Applicant :at Kasarwadi, a/p Sarawade, Tal. Chiplun, Dist. Ratnagiri-415606 Maharashtra India  
(72)**Name of Inventor :**  
**1)Dr. Suvarna Netaji Patil**

(57) Abstract :

A menstruation prediction device or kit for predicting the onset of menstruation 24 hours in advance and qualitatively determining progesterone in a saliva sample during luteal phase of menstrual cycle in fertile women and girls and menopausal women. The menstruation prediction kit (100) comprises of a sample pad (101), a conjugate pad (103), a stripe area (106) and a wick (107). This point of care device is based on lateral flow technique and encompasses sequentially connected stripes of membranes incorporated in a plastic holder. The sample pad receives the sample (102) which then flows in the direction (108) to enter the conjugate pad wherein the progesterone and antibody complex is formed. This complex further migrates to the strip area that presents a coloured display at test line (104) or control line (105) suggesting presence or absence of progesterone.

No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921029172 A

(19) INDIA

(22) Date of filing of Application :19/07/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR SUPPORTING STANDALONE 5G RADIO WITH LEGACY NETWORK

(51) International classification :H04W0036220000,  
G06F0017220000,  
G06F0017210000,  
C07D0403120000,  
C07D0413040000

(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)Reliance Jio Infocomm Limited**

Address of Applicant :101, Saffron, Nr. Centre Point,  
Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006, Gujarat,  
India Gujarat India

(72)Name of Inventor :

**1)Satish Nanjunda Swamy Jamadagni**

**2)Mahesh Nayaka Mysore Annaiah**

**3)Vinay Kumar Shrivastava**

**4)Mathew Oommen**

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR SUPPORTING STANDALONE 5G RADIO WITH LEGACY NETWORK The present invention relates to a system and a method for providing 5G services to at least one user device [302]. The at least one user device [302] transmits a first connection request to the gNodeB [304]. The gNodeB [304] attaches a first protocol message to the first connection request received from the at least one user device [302] and transmits the attached first connection request to an interworking unit [306]. The interworking unit [306] generates a third request from the attached first connection request based on an application protocol and transmits the generated third request to an EPC [308]. The EPC [308] establishes a connection with the at least one user device [302] and 5G services to the at least one user device [302] via the gNodeB [304].

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921034248 A

(19) INDIA

(22) Date of filing of Application :26/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM FOR MANAGEMENT OF RESPONSE TIME

(51) International classification	:H04W0036220000, G06F0017220000, G06F0017210000, C07D0403120000, C07D0413040000	(71) <b>Name of Applicant :</b> <b>1)Reliance Jio Infocomm Limited</b> Address of Applicant :101, Saffron, Near Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006, Gujarat, India. Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Abhishek Doon</b>
(33) Name of priority country	:NA	<b>2)Jitendra Soni</b>
(86) International Application No	:NA	<b>3)Gaurav Jain</b>
Filing Date	:NA	<b>4)Mukesh Singh</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT SYSTEM AND METHOD FOR MANAGEMENT OF RESPONSE TIME** A system and method for management of response time to the at least one NB-IoT device [102]. The method comprises receiving, at an MME [202] from a SCEF [204], at least one mobile terminal data request (TDR). The method thereafter comprises buffering, at the MME [202], each of the received at least one TDR. Further, the method comprises calculating, by the MME [202], a requested retransmission time (RRT) for each of the buffered at least one (TDR). The method thereafter comprises transmitting, from the MME [202] to the SCEF [204], at least one mobile terminal data answer (TDA) corresponding to each of the buffered at least one TDR for management of response time to the at least one NB-IoT device [102], wherein the at least one TDA comprises of at least the calculated RRT for each of the corresponding buffered at least one TDR.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921034302 A

(19) INDIA

(22) Date of filing of Application :26/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM FOR MANAGEMENT OF BUFFERING TIME

(51) International classification	:H04W0036220000, G06F0017220000, G06F0017210000, C07D0403120000, C07D0413040000	(71) <b>Name of Applicant :</b> <b>1)Reliance Jio Infocomm Limited</b> Address of Applicant :101, Saffron, Near Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006, Gujarat, India Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Abhishek Doon</b>
(33) Name of priority country	:NA	<b>2)Jitendra Soni</b>
(86) International Application No	:NA	<b>3)Gaurav Jain</b>
Filing Date	:NA	<b>4)Mukesh Singh</b>
(87) International Publication 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 MANAGEMENT OF BUFFERING TIME** The present invention relates to a system and a method for managing communication between at least one NB-IoT device [102] and an application server [108]. The method comprises continuously receiving, at a mobility management unit [104], one or more data request from the application server [108] for the at least one NB-IoT device [102]. The mobility management unit [104] transmits a paging request to the at least one NB-IoT device [102] and dynamically monitors a response to the paging request from the at least one NB-IoT device [102]. The mobility management unit [104] continuously buffers the one or more data request based on the dynamic monitoring, and transmits, the one or more buffered data request based on one of an expiry of the paging request and the dynamic monitoring for managing communication between at least one NB-IoT device [102] and the application server [108].

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021000674 A

(19) INDIA

(22) Date of filing of Application :07/01/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ON-CHIP MICRO MAGNETIC PATTERNS FOR ELECTRON PARAMAGNETIC RESONANCE SPECTROMETERS

(51) International classification	:G01R0033600000, G01N0024100000, G01R0033280000, B81C0099000000, H01L0051000000	(71)Name of Applicant : <b>1)Amit Pawan Hole</b> Address of Applicant :Center for VLSI and Nanotechnology, VNIT, Nagpur, Maharashtra, India Maharashtra India <b>2)Vasu Pulijala</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Ankit Pawan Hole</b>
(33) Name of priority country	:NA	<b>2)Vasu Pulijala</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 :

The present invention relates to a completely miniaturized on chip EPR sensor. This is done by miniaturizing the bulky magnets using micro magnetic patterns for on-chip electron paramagnetic resonance spectrometers. The object of the proposed device is to place the micro magnetic patterns in the center of on-chip non-resonant micro coil (NRMC) for complete on-chip integration of EPR spectrometers. The proposed sensor is a monolithic solution for EPR spectrometers, that is, the whole EPR system can be implemented on a single chip. The proposed system uses vector network analyzer (VNA) to generate and receive microwave signal; an on chip NRMC to generate microwave magnetic field; and on chip permalloy micro magnetic pattern to provide DC magnetic field instead of bulky and heavy electromagnets that are conventionally used in EPR spectrometers. Following invention is described in detail with the help of Figure 1 of sheet 1 showing permalloy magnetic patterns in the center of micro coil.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021001128 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A TOOTHBRUSH DEVICE.

(51) International classification :A46B0011000000,  
A61Q0011000000,  
A46B0015000000,  
F24F0007060000,  
H04L0005000000

(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)AMOL SHIVAJI SORATE**  
Address of Applicant :MORESHWAR CHS LTD., NEAR  
GAONDEVI MANDIR, VITAWA, THANE-BELAPUR ROAD,  
THANE-400 605, MAHARASHTRA, INDIA. Maharashtra India  
(72)**Name of Inventor :**  
**1)AMOL SHIVAJI SORATE**

(57) Abstract :

The present invention relates to an integrated toothbrush system, particularly, to a toothbrush having a toothpaste supply unit where toothpaste is used more hygienically and in a personalized manner.

No. of Pages : 11 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021005850 A

(19) INDIA

(22) Date of filing of Application :11/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATIC TRIGGER SYSTEM OF WEAPONS

(51) International classification	:H04L0012180000, G11C0029020000, G01R0013020000, A01K0097110000, H04W0008260000	(71) <b>Name of Applicant :</b> <b>1)MOHAMMADRAISH ABDULRASHID SHAIKH</b> Address of Applicant :E/961/2/K/34, SAI NAGAR SOCIETY, RAJPUR ROAD, BALASINOR, VADASINOR, MAHISAGAR, BALASINOR, GUJARAT-388255, INDIA. Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MOHAMMADRAISH ABDULRASHID SHAIKH</b>
(33) Name of priority country	:NA	<b>2)SHAMMA JAHAN</b>
(86) International Application No	:NA	<b>3)CHINTANKUMAR HASMUKHBHAI CHAUHAN</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 :

AUTOMATIC TRIGGER SYSTEM OF WEAPON Abstract The earlier automated gun has been constructed which emphasizes mechanical and optical integrity. It produces a focused spot having a radius less than 50 A and produces 1000 times more intense than a hot filament system having an alike final spot size. Here the method of adding Nichrome in the form of the sticker is advanced along with the battery usage for electricity generation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021006663 A

(19) INDIA

(22) Date of filing of Application :16/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AIR VENTILATION SAFETY HELMET WITH IMPROVED AUDIBILITY

(51) International classification	:A42B0003040000, E04D0013170000, A42B0003120000, B60H0001240000, F24F0013060000	(71)Name of Applicant : <b>1)Rajiv Gandhi Proudyogiki Vishwavidyalaya</b> Address of Applicant :Airport Bypass Road, Gandhi Nagar, Bhopal, Madhya Pradesh 462033 India Madhya Pradesh India <b>2)Gyan Ganga Institute of Technology and Sciences</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)PROF. PRAGYAN JAIN</b>
(33) Name of priority country	:NA	<b>2)PROF.(DR.) R.S. RAJPUT</b>
(86) International Application No	:NA	<b>3)PROF.(DR.) SUNIL KUMAR GUPTA</b>
Filing Date	:NA	<b>4)PROF. (DR.) PRABHAT PATEL</b>
(87) International Publication No	: NA	<b>5)PROF. RAJ TIWARI</b>
(61) Patent of Addition to Application Number:	NA	<b>6)PROF. ARTI SHARMA</b>
Filing Date	:NA	<b>7)PROF. S.V.H.NAGENDRA</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to an air ventilation safety helmet. The helmet system not only improves the ventilation system but also improves audibility of the wearer. More particularly, the invention relates to air channels and a specialized vent system which creates a low pressure system. A molded helmet has plurality of air channels which narrows down at the centre. Each channel has a vent system, which is covered with a rubber base having plurality of openings. The air when enters into the openings, create a low pressure are within the internal surface of the helmet, so as to improve ventilation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021008516 A

(19) INDIA

(22) Date of filing of Application :28/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SURFACE TOUCH RECOGNITION USING INFRARED EMITTER AND CAMERAS

(51) International classification	:G06F0003038000, G06F0003042000, G06F0003039000, G06F0003041000, G06F0003030000	(71)Name of Applicant : <b>1)SONKUSARE REENA</b> Address of Applicant :SARDAR PATEL INSTITUTE OF TECHNOLOGY, MUNSHI NAGAR, BHAVAN'S CAMPUS, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)BUDKE KAMINI</b>
(32) Priority Date	:NA	<b>3)MEHTA KRISNA</b>
(33) Name of priority country	:NA	<b>4)PARULEKAR SAURABH</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)SONKUSARE REENA</b>
(87) International Publication No	: NA	<b>2)BUDKE KAMINI</b>
(61) Patent of Addition to Application Number	:NA	<b>3)MEHTA KRISNA</b>
Filing Date	:NA	<b>4)PARULEKAR SAURABH</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**ABSTRACT SURFACE TOUCH RECOGNITION USING INFRARED EMITTER AND CAMERAS** The invention is a solution for converting any computer screen projected on a wall into a touchscreen. There are several situations when the proximity to the mouse pad hinders freedom of distance from the computer device. This product solves this issue by using a handheld device to control the users computer. The user has to simply calibrate the device once while installing and the surface is converted to a touch screen. The product uses a pair of cameras that are installed in the transmitting module which is kept beside the surface where the screen is projected. The cameras detect the infrared emitter and sends the data relative to itself via bluetooth, after image processing, to the receiver module which sends the data to the users' computer. This data is processed and the mouse location is found which is used to control the device

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021012416 A

(19) INDIA

(22) Date of filing of Application :23/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN E-COMMERCE SYSTEM AND METHOD THEREOF

(51) International classification	:G06Q0030060000, G06Q0020120000, G06Q0020040000, H04N0001340000, G06Q0020100000	(71) <b>Name of Applicant :</b> <b>1)Ganesh Vishwanath Kamble</b> Address of Applicant :B-301, Nancy Bramha Residency, NDA-Pashan Road, Bavdhan, Pune- 411021 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Ganesh Vishwanath Kamble</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An e-commerce system is provided. The system includes a seller module registers a seller upon receiving seller details from the seller; generates a seller profile based on the seller details, wherein the seller is enabled to sell goods by displaying images and goods details of the goods; and invites consumers to link or follow the seller profile generated via a communication network. A reseller module registers a reseller upon receiving reseller details from the reseller; generates a reseller profile based on the reseller details received from the reseller, wherein the reseller is enabled to sell the goods by displaying the images and the goods details upon linking or following the seller profile generated; receives an order request from a consumer for the goods; and forwards the order request received to the seller, wherein the seller dispatches the goods upon receiving monetary funds associated with the order request received. FIG. 2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021014497 A

(19) INDIA

(22) Date of filing of Application :01/04/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : 3-(3-OXOARYL) INDOLE AS ANTI-CANCER AGENTS AND A PROCESS OF SYNTHESIS THEREOF

(51) International classification	:B65D0051280000, B65D0090020000, F26B0013000000, B65D0090000000, E21B0034100000	(71)Name of Applicant : <b>1)DR. HARISINGH GOUR VISHWAVIDYALAYA</b> Address of Applicant :Sagar, Madhya Pradesh-470003, INDIA Madhya Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)GAYEN, Shovanlal</b>
(33) Name of priority country	:NA	<b>2)PATIL, Umesh Kumar</b>
(86) International Application No	:NA	<b>3)DAS, Kalpataru</b>
Filing Date	:NA	<b>4)GHOSH, Balaram</b>
(87) International Publication No	: NA	<b>5)PATEL, Tarun</b>
(61) Patent of Addition to Application Number:	NA	<b>6)GAIKAWAD, Ruchi</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

3-(3-OXOARYL) INDOLE AS ANTI-CANCER AGENTS AND A PROCESS OF SYNTHESIS THEREOF ABSTRACT The present disclosure relates generally to 3-(3-oxoaryl) indole compounds as anti-cancer agents. The disclosed compounds exhibits potent anti-cancer activity. The invention also discloses a novel process of synthesis of 3-(3-oxoaryl) indole compounds. The novel process of synthesis is very quick, cost effective and results in higher yield. Uses of the disclosed compounds and pharmaceutical composition are also disclosed.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021014498 A

(19) INDIA

(22) Date of filing of Application :01/04/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : 3-(1H-INDOL-3-YL)-1,3-DIPHENYL PROPAN-1-ONE DERIVATIVES AS ANTI-CANCER AGENTS AND A PROCESS OF SYNTHESIS THEREOF

(51) International classification	:B65D0051280000, B65D0090020000, F26B0013000000, B65D0090000000, E21B0034100000	(71)Name of Applicant : <b>1)DR. HARISINGH GOUR VISHWAVIDYALAYA</b> Address of Applicant :Sagar, Madhya Pradesh-470003, INDIA Madhya Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)GAYEN, Shovanlal</b>
(33) Name of priority country	:NA	<b>2)PATIL, Umesh Kumar</b>
(86) International Application No	:NA	<b>3)DAS, Kalpataru</b>
Filing Date	:NA	<b>4)GHOSH, Balaram</b>
(87) International Publication No	: NA	<b>5)MONDAL, Dipayan</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

3-(1H-INDOL-3-YL)-1,3-DIPHENYL PROPAN-1-ONE DERIVATIVES AS ANTI-CANCER AGENTS AND A PROCESS OF SYNTHESIS THEREOF ABSTRACT The present disclosure relates generally to 3-(1H-indol-3-yl)-1,3-diphenyl propan-1-one derivatives as anti-cancer agents. The disclosed compounds exhibits potent anti-cancer activity. The invention also discloses a novel process of synthesis of 3-(1H-indol-3-yl)-1,3-diphenyl propan-1-one derivatives. The novel process of synthesis is very quick, cost effective and results in higher yield. Uses of the disclosed compounds and pharmaceutical composition are also disclosed.

No. of Pages : 30 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022497 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IMMUNITY BOOSTER PRODUCT FOR PATIENTS OF COVID-19.

(51) International classification	:H04L0029060000, A61K0039120000, A61K0031375000, C12R0001940000, A01N0059100000	(71) <b>Name of Applicant :</b> <b>1)DR. DOUND Yogesh</b> Address of Applicant :201/2 Old Kashmiri Building, Majas wadi, R.R. Thakur marg, Jogeshwari (E), Mumbai, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)DR. DOUND Yogesh</b>
(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 immunity booster product for patients of COVID-19, especially those who are in quarantine.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022657 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL PERFUME SPRAY TO BE USED AS SANITIZING ALSO TO DISINFECT THE BODY FROM VIRUS

(51) International classification	:G06F0021560000, H01M0008061200, C11D0003500000, A45D0034020000, G02B0026080000	(71) <b>Name of Applicant :</b> <b>1)RANSARIYA NILESHBHAI BALUBHAI</b> Address of Applicant :32, Marutinagar, Ravapar Road, Morvi, Morbi Mdg. Rajkot, Gujarat 363641 Gujarat India <b>2)GANDHI DHIREN VINODKANT</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RANSARIYA NILESHBHAI BALUBHAI</b>
(33) Name of priority country	:NA	<b>2)GANDHI DHIREN VINODKANT</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 :

This invention is an antibacterial / antiviral perfume spray. The antibacterial / antiviral perfume is containing 50 % to 90% of Isopropanol [IP] and or Isopropyl Alcohol [IPA] This is the main ingredient responsible for sanitizing. Other elements are propellant Hydrocarbon 1% to 5%, Perfume 1% to 5%, color,1% to 5% and propylene glycol 1% to 5%. Other aspects and advantages of the present invention will be apparent from the following detailed description of the embodiments and figures.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021022658 A

(19) INDIA

(22) Date of filing of Application :29/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM TO DISINFECT / SANITIZE ANY PERSON ENTERING THE ELEVATOR OR PASSING THROUGH AIR CURTAIN

(51) International classification	:A61L0002100000, F24F0003160000, B66B0001460000, A61L0002180000, A61L0002200000	(71) <b>Name of Applicant :</b> <b>1)RANSARIYA NILESHBHAI BALUBHAI</b> Address of Applicant :32, Marutinagar, Ravapar Road, Morvi, Morbi Mdg. Rajkot, Gujarat 363641 Gujarat India <b>2)GANDHI DHIREN VINODKANT</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RANSARIYA NILESHBHAI BALUBHAI</b>
(33) Name of priority country	:NA	<b>2)GANDHI DHIREN VINODKANT</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 :

This invention relates to Method and System to disinfect / sanitize any person or goods entering the elevator or passing through air curtain. More particularly, the invention relates to a system and method for germicidal sanitizing of an elevator or other enclosed structure using air curtain starts, the fogging / spraying of disinfectant starts.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021024131 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A ROBOT FOR AUTOMATIC SEED PLANTATION IN A FIELD AND A METHOD THEREOF.

(51) International classification	:G06F0017240000, H01F0041040000, B25J0019060000, E21B0041000000, G01R0033565000	(71)Name of Applicant : <b>1)SHAWN JOSEPH D'MELLO</b> Address of Applicant :PLOT NO.4, SAGAR SOCIETY, DONA PAULA, GOA-403004, INDIA Goa India <b>2)AABHAS SINGHAL</b> <b>3)MEHUL SHARMA</b> <b>4)ISHAN GUPTA</b> <b>5)MITHILESH LEWARKAR</b> <b>6)DR S RENOLD ELSEN</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SHAWN JOSEPH D'MELLO</b>
(33) Name of priority country	:NA	<b>2)AABHAS SINGHAL</b>
(86) International Application No	:NA	<b>3)MEHUL SHARMA</b>
Filing Date	:NA	<b>4)ISHAN GUPTA</b>
(87) International Publication No	: NA	<b>5)MITHILESH LEWARKAR</b>
(61) Patent of Addition to Application Number	:NA	<b>6)DR S RENOLD ELSEN</b>
Filing Date	:NA	<b>7)DR SENTHIL KUMARAN S</b>
(62) Divisional to Application Number	:NA	<b>8)DR JAGAN MOHAN OBBINENI</b>
Filing Date	:NA	<b>9)DR SEENUVASAPERUMAL P</b>

(57) Abstract :

ABSTRACT A ROBOT FOR AUTOMATIC SEED PLANTATION IN A FIELD AND A METHOD THEREOF The present invention matter relates to a robot (100) for automatic seed plantation in a field. The robot (100) including a hole drilling module (102), a seed storage container (106), a seed picking and dropping module (108), and a hole covering unit for drilling one or more holes and dropping one or more seeds in the one or more hole. Further, the robot (100) includes a robot motor (114) for movement of the robot (100) on the field and a control unit (118) for controlling operation of at least the hole drilling module (102), the seed picking and dropping module (108), the hole covering unit, and the robot motor (114). «Fig. 1A»

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021026574 A

(19) INDIA

(22) Date of filing of Application :23/06/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SCAFFOLD COMPRISING LUPEOL LOADED ARGININE NANOPARTICLES FOR WOUND MANAGEMENT.

(51) International classification	:A61K0009000000, A61K0031198000, A61L0026000000, A61K0009510000, B82Y0005000000	(71) <b>Name of Applicant :</b> <b>1)Singh Deependra</b> Address of Applicant :House no 4, Lokmanya tilak society, near gole chowk, D.D. Nagar, Raipur, 492010, Chhattisgarh Chhattisgarh India
(31) Priority Document No	:NA	<b>2)Singh Manju</b>
(32) Priority Date	:NA	<b>3)Patel Satish</b>
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Singh Deependra</b>
Filing Date	:NA	<b>2)Singh Manju</b>
(87) International Publication No	: NA	<b>3)Patel Satish</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention has a method of preparing a composition of arginine nanoparticles loaded with a natural triterpenoid-lupeol for the treatment of wound. Arginine nanoparticle in a scaffold delivers lupeol having anti-inflammatory, antibacterial and antioxidant activity. Further, arginine released as carrier system component also promote the collagen synthesis, enhance angiogenesis and as antibacterial agent to promote wound healing. This methodology produces arginine based nanoparticles with synergistic effect of arginine and natural triterpenoid for complete wound management. TITLE A scaffold comprising lupeol loaded arginine nanoparticles for wound management.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021032877 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL APPLICATION AND USE OF FOUNDRY BURNT SAND, SPRAY DRYER FLUIDIZED BAD BURNED SAND AND ALL TYPES OF BURNED SAND

(51) International classification :B29B0017000000,  
B09B0001000000,  
C04B0035520000,  
H02K0053000000,  
D01G0011000000

(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)RANSARIYA NILESHBHAI BALUBHAI**  
Address of Applicant :32, Marutinagar, Ravapar Road, Morvi,  
Morbi Mdg. Rajkot, Gujarat 363641 Gujarat India  
**2)GANDHI DHIREN VINODKANT**

(72)Name of Inventor :  
**1)RANSARIYA NILESHBHAI BALUBHAI**  
**2)GANDHI DHIREN VINODKANT**

(57) Abstract :

The present invention system is to use the application of this waste will make environment free from dumping illegally. Further the invention method is also reuse of this WASTE has very high volume consumption in almost all the fields. By using the recycled WASTE we can save the natural resources.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021036005 A

(19) INDIA

(22) Date of filing of Application :21/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR PREPARATIONS OF COCRYSTAL TELMISARTAN

(51) International classification	:A61K0031418400, C07D0235200000, A61K0031395000, C30B0029580000, C09D0007400000	(71)Name of Applicant : <b>1)Dr. Amol Arun Joshi</b> Address of Applicant :ASPM's K T Patil College of Pharmacy, Sidharthnagar, Barshi Road, Osmanabad. 413501 Maharashtra India
(31) Priority Document No	:NA	<b>2)Dr Quazi Md. Aamer Iqbal Md. Yusuf Ali</b>
(32) Priority Date	:NA	<b>3)Ramraja Pandurang Umbare</b>
(33) Name of priority country	:NA	<b>4)Sudhir Suryakant Pange</b>
(86) International Application No	:NA	<b>5)Alkunte Atulkumar Suryakant</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. Amol Arun Joshi</b>
(61) Patent of Addition to Application	:NA	<b>2)Dr Quazi Md. Aamer Iqbal Md. Yusuf Ali</b>
Number	:NA	<b>3)Ramraja Pandurang Umbare</b>
Filing Date	:NA	<b>4)Sudhir Suryakant Pange</b>
(62) Divisional to Application Number	:NA	<b>5)Alkunte Atulkumar Suryakant</b>
Filing Date	:NA	

(57) Abstract :

The invention relates to a co-crystal of telmisartan and a preparation method and application thereof. Comprehensive characterization of the co-crystal of the telmisartan is performed by applying means such as Powder X-ray diffraction analysis, X-ray single crystal diffraction analysis, nuclear magnetic resonance, thermogravimetric analysis, differential scanning calorimetry and infrared spectroscopic analysis, and results show that the maximum plasma concentration of the co-crystal in SD rat bodies of telmisartan. The preparation method of the co-crystal of the telmisartan is simple, and the physical and chemical properties are good.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021038802 A

(19) INDIA

(22) Date of filing of Application :08/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A REUSABLE RESPIRATORY DEVICE

(51) International classification	:G01N0021640000, A41D0013110000, A62B0023020000, A62B0018020000, A61M0016100000	(71)Name of Applicant : <b>1)Mr. Utkarsha Shridhar Ankalkhope</b> Address of Applicant :17 St. Nicholas Close, Coventry, CV1 4DU, West Midlands, UK U.K. <b>2)Mr. Pranit Devkumar Watve</b> <b>3)Mrs. Resha Sameet Raut</b> <b>4)Mr. Uday R. Ganeshwade</b> <b>5)Mr. Sameet Sandesh Raut</b> <b>6)Dr. Rahul Ambadas Gore</b> <b>7)Dr. Prveen Bidare</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Mr. Pranit Devkumar Watve</b> <b>2)Mr. Utkarsha Shridhar Ankalkhope</b> <b>3)Mrs. Resha Sameet Raut</b> <b>4)Mr. Sameet Sandesh Raut</b> <b>5)Dr. Prveen Bidare</b> <b>6)Mr. Uday R. Ganeshwade</b> <b>7)Dr. Rahul Ambadas Gore</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: A reusable respiratory device The present invention relates to a reusable respiratory device manufactured by injection molding technology and designed to help protect the wearer from exposure to airborne particles (e.g. Dust, mist, fumes, fibers, and bio-aerosols, such viruses and bacteria). The claimed device comprises a filter cap (101); a filter cartridge (102); an exhaust valve cap (103); an exhaust diaphragm (104); a mask body (105); a face cushion (106); a pair of straps (107); and a storage unit (300) further characterized by an unidirectional exhaust valve (200) positioned opposite to the chin of the mask wearing person and by a self-sterilizing mechanism embodied in the storage unit (300) and a reusable face shield (400).

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040231 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : FOUR PLATE DOUBLE EFFECT JAW CRUSHER

(51) International classification	:F16B12/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)RAMESH PANDHARINATH BIRMOD</b>
(32) Priority Date	:NA	Address of Applicant :76, WELCOME SOCIETY,
(33) Name of priority country	:NA	VAYUSENA NAGAR DHABA, NAGPUR-440023,
(86) International Application No	:NA	MAHARASHTRA, INDIA. Maharashtra India
Filing Date	:NA	<b>2)RUSHIKESH KRUSHNARAO ZOD</b>
(87) International Publication No	: NA	<b>3)ASHRUBA PADMAKAR PATIL</b>
(61) Patent of Addition to Application Number	:NA	<b>4)DR. NITIN GAJANAN KANSE</b>
Filing Date	:NA	<b>5)DR. BHARAT APPARAO BHANVASE</b>
(62) Divisional to Application Number	:NA	<b>6)DR. SANJAY LAXMAN BHAGAT</b>
Filing Date	:NA	(72)Name of Inventor :
		<b>1)RAMESH PANDHARINATH BIRMOD</b>
		<b>2)RUSHIKESH KRUSHNARAO ZOD</b>
		<b>3)ASHRUBA PADMAKAR PATIL</b>
		<b>4)DR. NITIN GAJANAN KANSE</b>
		<b>5)DR. BHARAT APPARAO BHANVASE</b>
		<b>6)DR. SANJAY LAXMAN BHAGAT</b>

(57) Abstract :

ABSTRACT Jaw Crusher is powered by motor which breaks materials in a crushing chamber. The rotatory motion gives shaft to move in eccentric motion. When we break the motion into two parts, first is forward push where moving jaw is gets closure to stationary and second is backward pull where the moving jaw goes away from the stationary jaw. Its a theory that shaft stores more momentum when it moves away from the stationary jaw and that momentum is getting used in next stroke. That momentum is getting stored in huge flywheels. But they cannot convey the total momentum with the stroke. Motivation for the invention is to use that remaining momentum for another stroke by using some additional stationary and moving jaw cluster attached to the opposite side. As per the diagram, there are two stationary and moving jaws. The whole structure assembled a way which leads to simultaneous movement of forward push and-backward pull. That will results to better use of remaining momentum. So eccentric shaft convert rotatory motion into reciprocatory motion and that will initiate the motion of moving jaw. The motion that was initiated by eccentric shaft is continued by outer cylinder portion which eventually gets distributed towards jaws. Here motion is receprocatory. When there will be forward push towards right sides moving jaw, there will be backward pull from left sides moving jaw. And this way the operation is getting carried out. The present invention provides an energy management solution as a four plate double effect jaw crusher. Our design addresses to increase the efficiency of jaw crusher which used in industrial sector. Design is made using different parts for good energy efficiency. Experimental runs are conducted results significant increase in capacity as well as efficiency. This is cost effective solution for crushing purpose in very less space.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040612 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ADVANCED FERTILIZER SPREADING ATTACHMENT FOR TRACTOR TROLLEY

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr.Vishal Balaso Patil.</b>
(32) Priority Date	:NA	Address of Applicant :A/P-Yelapur, TalShirala,Dist-
(33) Name of priority country	:NA	Sangli,415405,Maharashtra,India, An Indian National.
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar.</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.Vishal Balaso Patil.</b>
(62) Divisional to Application Number	:NA	<b>2)Prof.Vidya Shivanand Byakod</b>
Filing Date	:NA	<b>3)Prof.Sunil Pandurang Chaphalkar.</b>

(57) Abstract :

ABSTRACT: The Advanced fertilizer spreading attachment is designed in such a way that it can be easily assembled and dismantles. From last two decades ~Indian farmers are using chemical fertilizer instead of using muck fertilizers. The attachment consists of cutter blades which are mounted on rear supports of trolley with the help of two pedestal blocks and drive is given by the chain and freewheel mechanism to the shaft as well as the ram arrangement is provided at the front side of the trolley to move the fertilizer backward to maintain the contact between cutter blades and the fertilizer. With this attachment, percentage reduction in time required for Fertilization was observed to be 70% and reduction in labor cost as compared to conventional method was 80%. It has solved the problem of traditional way of Fertilization. We have made fertilizer spreading attachment for tractor trolley which spread the fertilizer and it deals with. Uniform distribution of fertilizer with variable thickness. Time saving process. Reduces the labor cost for fertilizer spreading. Avoids direct contact of human hands with fertilizer. Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040613 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : COMFORT SEAT MECHANISM FOR TWO WHEELER PASSENGER REAR SUPPORT SEAT

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(32) Priority Date	:NA	Address of Applicant :Residing at A/P-Yelapur,
(33) Name of priority country	:NA	TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian
(86) International Application No	:NA	National. Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar.</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(62) Divisional to Application Number	:NA	<b>2)Prof.Vidya Shivanand Byakod</b>
Filing Date	:NA	<b>3)Prof.Sunil Pandurang Chaphalkar.</b>

(57) Abstract :

ABSTRACT: The invention relates to the design and development of mechanical system. Comfort seat mechanism for two wheeler rear seat is designed in such a way that we can be easily assemble and dismantle to any vehicle with slightly modifications. The bike back support seats which are available in the market are rigidly connected to the bike frame or support member. When the scooter was invented by various manufacturers at that time the additional tyre itself used as rear support seat. For long drive it is very necessary to have bike rear support seat for a comfortable ride. When the bike moves on the ditch then due to surface irregularities very heavy jerk is transferred to the rear support system which is further transferred to the human back bone. Which causes heavy pain or in some cases damage to the back bone. Or main aim is to provide suspended back support structure to the vehicle we can convert this suspended structure into rigid structure whenever required. Due to suspension spring provided in our system the heavy jerks are avoided. Hence it becomes very comfortable for the person who is sited on back seat of the vehicle. Figure 1

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : SEMI-AUTOMATIC BOARD CLEANING MECHANISM

(51) International classification :F16B12/00  
 (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)Mr. Vishal Balaso Patil.**

Address of Applicant :Residing at A/P-Yelapur, Tal-Shirala,DistSangli,415405,Maharashtra,India, An Indian National. Maharashtra India

**2)Mr. Rahul Balasaheb Shelke.****3)Prof.Sunil Pandurang Chaphalkar****4)Prof.Vidya Shivanand Byakod**

## (72)Name of Inventor :

**1)Mr. Vishal Balaso Patil.****2)Mr. Rahul Balasaheb Shelke.****3)Prof.Sunil Pandurang Chaphalkar****4)Prof.Vidya Shivanand Byakod**

## (57) Abstract :

ABSTRACT: In a conventional teaching learning process most of the schools, colleges, tuitions and other similar institutes widely uses the blackboard, whiteboard along with chalk and marker pen. At the time of teaching teacher writes many formulae, key-words, sentences, and draws many diagrams, charts, graphs, symbols etc. on the board for better understanding of students. After detailed explanation teacher supposed to clean the board for further use. Most of the times this board cleaning process is manual,if a teaching continues for longer period (more than hour), then 10-12 % of time becomes waste in cleaning the board with the help of normal duster, which is time consuming, tedious and hectic. In such type of manual cleaning process dust particles will get produced from the remnants of the chalk or marker pen ink, which causes adverse or hazardous effect on the health of the teacher as well as students. Due to the manual board cleaning the teacher feel tired, also the concentration of both teacher and students gets affected . Hence we have designed the system which cleans all the contents on the board semi automatically with the help of duster pad. In this the duster pad mounted on the vertical arm whose one end is placed over the box nut with the help of various metal joining processes and other end is rolled over the top surface of board with the help of roller supports. It also uses a L- support plate to give support to the vertical arm from back side of the board. Also to control the motion of vertical arm in between two ends of board we used two limit switches at both the ends. The dust protection cover is surrounded over the length of vertical arm and this dust get collected inside the tray which is placed at the bottom of the board.The lead screw is attached to a motor shaft with the help of coupling and it is supported in between two bearings. The motor is used to rotate lead screw in clockwise or counterclockwise directions. The power supply source along with operating switch is used to start or stop the motor. We made semi-automatic board cleaning mechanism which Reduces the time for cleaning process Reduces the efforts of teacher Provide protection against dust particles. Avoids direct contact of human hands with dust.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040616 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : BULLOCK CART LOAD BALANCED SYSTEM

(51) International classification	:F16B12/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr.Vishal Balaso Patil.</b>
(32) Priority Date	:NA	Address of Applicant :Residing at A/P-Yelapur,
(33) Name of priority country	:NA	TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian
(86) International Application No	:NA	National. Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.Vishal Balaso Patil.</b>
(62) Divisional to Application Number	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
Filing Date	:NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>

(57) Abstract :

ABSTRACT: Basically bullock cart or ox cart in one of the two wheeled or four wheeled cart used for load carrying or for transportation of passengers. Now a days in India the bullock cart or ox cart is widely used for transportation of sugarcane from farm to factory. When we see the structure of the bullock cart we find that the maximum load is transferred on the shoulders of the animal due to which they are struggling while pulling the cart. We designed one load balance system for the bullock cart in which we are attaching one additional wheel to the cart. This additional wheel can take the load of vehicle instead of transferring to animals shoulder. The third wheel can rotate in 1800 so it is easier to turn the cart. The additional wheel is also having suspension, Brake as well as height adjustment mechanism. Our main air to design The Bullock cart load balanced system that can be easily assembled and dismantle to any bullock car. To make user friendly bullock cart load balanced system which can be easily attached and dismantled. To reduce efforts of animals while pulling the cart. Provide height adjustment mechanism to adjust the height of the yoke according to the height of animals. Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040626 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : HYDRO-ELECTRIC HAND BRAKE SYSTEM

(51) International classification :F16D3/00  
(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)Mr. Vishal Balaso Patil.**

Address of Applicant :Residing at A/P-Yelapur,  
TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian  
National. Maharashtra India

**2)Mr. Rahul Balasaheb Shelke**

**3)Prof.Sunil Pandurang Chaphalkar**

**4)Prof.Vidya Shivanand Byakod.**

(72)Name of Inventor :

**1)Mr. Vishal Balaso Patil.**

**2)Mr. Rahul Balasaheb Shelke**

**3)Prof.Sunil Pandurang Chaphalkar**

**4)Prof.Vidya Shivanand Byakod.**

(57) Abstract :

ABSTRACT: The lever operated conventional hand brake control system which is also considered as emergency and parking brake control system used to keep the vehicle stationary. For this the hand brake control system uses hydraulic pressure for its operation which works on the principle of Pascal™s law. Automobile hand brake control system usually consists of a cable whose one end is directly connected to hand brake lever and other end is connected to the brake drum and brakes are applied to rear wheels only. The conventional hand brake system consists of hand brake lever which can be placed near the driver. The conventional hand brake system consists of hand operated lever, cables and drum type brake system. Hence we have designed the hydro-electric operated hand braking or locking system. In this system conventional cables are replaced by a solenoidal valve which is placed in between master cylinder of hydraulic system and hydraulic oil distributor of wheels. The solenoidal valve is operated with the help of single-pole single-through type switch which has to and fro motion. This solenoidal valve is operated only when the ignition switch of vehicle is at ON position due to this reason this system is childfree. So when ignition switch of vehicle is ON, then solenoidal valve is also at ON position, if we want to stop the vehicle, the brake paddle is pressed, due to this pressurized oil is flow from master cylinder to the hydraulic oil distributor system of wheels and due to this the normal brakes are applied. At the same time if we want to apply hand brake or locking brake then put the solenoidal valve at OFF position with the help of single pole single through switch, so that pressurized oil gets trapped between valve and brake drum, so that locking brake gets applied. We can use this type of system in all vehicles in which hydraulic as well as pneumatic braking system is used for applying brake. Also we can apply the hand brake at all the wheels. So, we made hydro-electric hand brake system which Reduces the efforts of driver Reduces the size of hand brake mechanism Reduces the complications of hand brake mechanism Improve the efficiency of locking. Provide childfree operation/ Reduce the accidents due to child™s actions To apply the hand brake at all the wheels simultaneously.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040630 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : TRAIN COACH ENTRY PATHWAY FOR PHYSICALLY CHALLENGED PERSONS

(51) International classification	:A61H3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(32) Priority Date	:NA	Address of Applicant :Residing at A/P-Yelapur,
(33) Name of priority country	:NA	TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian
(86) International Application No	:NA	National. Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(62) Divisional to Application Number	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
Filing Date	:NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>

(57) Abstract :

ABSTRACT: Train coach entry pathway for physically challenged persons, it is one of the system which provides entry and exit accessibility for physically challenged peoples. Priority is always given to the safety of the passengers but still there is no mechanism which can provides temporary pathway for physically challenged persons. So the physically challenged persons are always dependent on others. If such pathways are if easily installed in the train coach then they can easily enter into the train coach with wheel chair also. In most of the developed countries addition temporary pathways are used for entrance into the train coach. But these pathways are completely manually operated and as well as they are not mounted on the train coach. This temporary pathway not only improves passenger safety, but can also increase efficiency of entry and exit times. Removing the hesitation of stepping over a gap, passengers become more confident when entering and exiting the train. There are so many mechanisms are used by the railways for improving the accessibility for physically challenged persons. Our innovation consists of the servo motor and rack and pinion mechanism attached to it by which we can create temporary pathway with the help of main frame and the metal plate. The limit switches are used to control position of the pathway. Our main focus is on them To create temporary pathway for physically challenged persons. To provide good accessibility for entrance and exit from the train

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040633 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SOLID FERTILIZER SPREADING MACHINE

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(32) Priority Date	:NA	Address of Applicant :Residing at A/P-Yelapur,
(33) Name of priority country	:NA	TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian
(86) International Application No	:NA	National. Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar.</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(62) Divisional to Application Number	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
Filing Date	:NA	<b>3)Prof.Sunil Pandurang Chaphalkar.</b>

(57) Abstract :

ABSTRACT: The solid fertilizer spreading machine is designed in such a way that it can easily spread any kinds of solid fertilizer at the roots of the crop. From last two decades Indian farmers are using chemical fertilizer more than its requirement, it<sup>TM</sup>s done due to the less awareness of the use as well as not availability of the convenient equipments for spreading these fertilizers. In our invention, we are using hopper for storage of the fertilizer, the material used for the hopper is plastic because it will not react with the chemical fertilizer. We are using two pipes for supplying fertilizer to two different rows of the crop. The pipes are flexible one which can be easily adjusted according to the width of the crop. The two flow control levers are used to regulate the flow of fertilizer according to the requirement. The complete system is mounted on the rigid frame and supported on one wheel with the help of axle. With this machine, percentage reduction in time required for Fertilization was observed to be 70% and reduction in labor cost as compared to conventional method was 80%. It has solved the problem of traditional way of Fertilization. We made Solid Fertilizer spreading machine which spread the fertilizer and it deals with Uniform Distribution of Fertilizer to two rows Time saving Process Flow control mechanism to adjust the quantity of fertilizer Avoids direct contact of human hands with fertilizer

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040634 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATIC TRAIN AND PLATFORM GAP ADJUSTMENT MECHANISM

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr. Vishal Balaso Patil</b>
(32) Priority Date	:NA	Address of Applicant :Residing at A/P-Yelapur,
(33) Name of priority country	:NA	TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian
(86) International Application No	:NA	National. Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mr.Vishal Balaso Patil</b>
(62) Divisional to Application Number	:NA	<b>2)Prof.Vidya Shivanand Byakod</b>
Filing Date	:NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>

(57) Abstract :

The Automatic train and platform gap adjustment mechanism is specially designed for the local trains. As the number of beneficiary who are traveling via local train are more in India as compare to other country. Normally the number of persons in per coach are more than its capacity, as such circumstances some people who are standing in the doors passage losses their control and fall down on the platform but due to momentum they. When the train arrives on the platform then the platform height position sensor mounted on front side of train, senses the position of the platform and according to it the train and platform gap adjustment mechanism automatically opens. For opening the webs we are using rack and pinion mechanism. Usually the gap maintained in between train and platform after installation of this system is 3 cm. when the train starts moving and when the height position sensor mounted at the back side of the train does not sense any platform then with the help of rack and pinion mechanism automatically lift the webs in upward direction. Our train platform gap adjustment mechanism is performing following functions. To cover gap in between train coach and platform. To save life of passengers falling on platform

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040659 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DUEL CABLE GEAR SHIFTER MECHANISM FOR AUTOMOTIVE VEHICLE.

(51) International classification	:F16H59/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr.Vishal Balaso Patil.</b>
(32) Priority Date	:NA	Address of Applicant :Residing at A/P-Yelapur,
(33) Name of priority country	:NA	TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian
(86) International Application No	:NA	National. Maharashtra India
Filing Date	:NA	<b>2)Prof.Vidya Shivanand Byakod.</b>
(87) International Publication No	: NA	<b>3)Prof.Sunil Pandurang Chaphalkar</b>
(61) Patent of Addition to Application Number	:NA	<b>4)Mr.Vinayak Vasant Sapakal.</b>
Filing Date	:NA	<b>5)Mr.Rushikesh Santosh Kale</b>
(62) Divisional to Application Number	:NA	<b>6)Mr.Makarand Maruti Kamble</b>
Filing Date	:NA	<b>7)Mr.Abhishek Vijay Maske</b>
		<b>8)Mr.Het Jitendra Patel.</b>
		<b>9)Mr.Sri Krishna Sudharshan Murali Iyengar</b>
		<b>10)Mr.Gaurav Manish Nemade</b>
		<b>11)Mr.Abhijit Ravindra Rawool</b>
		<b>12)Mr.Suraj Shivraj Shinde.</b>
		<b>13)Mr.Yash Yogiraj Rane</b>
		<b>14)Mr.Aditya Bhagawan Late</b>
		(72)Name of Inventor :
		<b>1)Mr.Vishal Balaso Patil.</b>
		<b>2)Prof.Vidya Shivanand Byakod</b>
		<b>3)Prof.Sunil Pandurang Chaphalkar</b>
		<b>4)Mr.Vinayak Vasant Sapakal</b>

(57) Abstract :

ABSTRACT: In today<sup>TM</sup>s advanced automotive sector every day there are so many changes are made in every technology. When we are talking about the gear shifting mechanism it plays an important role in motor vehicle. By using constant speed engines we can vary the speed of vehicle it is possible with the help of gear transmission only. Hence when we are going to change the gear position from one to another the gear shifters are used. We have designed Duel cable Gear shifter mechanism for automotive vehicle which can be easily mount on the steering column and near to the steering wheel. For this purpose we are using two shifting pedals and cables attached to the same with the help of compression spring to maintain the correct position of the shifters. The one end of the cable is attached to the gear shifter while another end is connected to the shifter arm via wire holder. The shifters are further connected to the back plate with the help of hexagonal nut and bolts. Out of two shifters one is gear up and other is gear down shifter. As we are rigidly fix the back plate to the steering rod hence the shifter rotates as the steering wheel rotates. As the shifting pedals are very close to steering wheel then with the help of fingers only we can change the gear whenever required hence controlling of the vehicle is becomes very simple. Our invention can be easily installed in such type of vehicles where we shift the gears by using cable shifters. Our main focus is on them To make steering mounted gear shifting mechanism. To provide compact gear shifting mechanism. To control the vehicle easily Minimize the efforts required to change the gears.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040662 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : FRONT WHEEL STUB AXLE ASSEMBLY FOR ELECTRIC VEHICLE.

<p>(51) International classification :F16H59/00</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><b>1)Mr.Vishal Balaso Patil</b> Address of Applicant :Residing at A/P-Yelapur, TalShirala,Dist-Sangli,415405,Maharashtra,India, An Indian National. Maharashtra India</p> <p><b>2)Prof.Vidya Shivanand Byakod</b></p> <p><b>3)Prof.Sunil Pandurang Chaphalkar</b></p> <p><b>4)Mr.Vinayak Vasant Sapakal</b></p> <p><b>5)Ms.Shruti Shailesh Panchlwar</b></p> <p><b>6)Ms.Neha Padamakar wadikar</b></p> <p><b>7)Mr.Tanay Santosh Mahadik.</b></p> <p><b>8)Mr.Rishikesh Pravin Badve</b></p> <p><b>9)Mr.Pushkar Shashikant Rahate</b></p> <p><b>10)Mr.Kunal Raju Nanaware</b></p> <p><b>11)Mr.Kshitij Pradeep Shelke</b></p> <p><b>12)Mr.Tejas Sunil Parve</b></p> <p><b>13)Mr.Harsh Manoj Deshmukh.</b></p> <p><b>14)Mr.Rajkumar Kalyan Landage</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr.Vishal Balaso Patil</b></p> <p><b>2)Prof.Vidya Shivanand Byakod</b></p> <p><b>3)Prof.Sunil Pandurang Chaphalkar</b></p> <p><b>4)Mr.Vinayak Vasant Sapakal</b></p>
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(57) Abstract :

ABSTRACT: In today<sup>TM</sup>s advanced automotive sector every day there are so many changes are made in every technology. When we are talking about the electric vehicles the weight of the vehicle plays an important role. For increasing the performance of vehicle the weight of the different components must be as less as possible. We have made the quick changeable front wheel stub axle for which we are using stub axle of varying diameter, Knuckle plate, rim attachment plate, needle and roller bearing, grease seals and different types of fasteners and key to make rigid joints whenever required. The system also consists of brake disc and caliper for braking purpose. The main stub axle is connected to the knuckle plate with the help of rectangular key and hexagonal nut. For that the key grooves are created at the outside surface of the shaft and inside the bore of knuckle plate. The rim attachment plate is used for mounting rim on the hub. Hence we can change the type of rim easily by changing the shape of rim attachment plate. It<sup>TM</sup>s a sad fact that in today<sup>TM</sup>s advance technology there is still lack of quick changeable front wheel stub axles with light weight. Our main focus is on them To make quick changeable stub axle mechanism. To provide compact and light weight stub axles.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040665 A

(19) INDIA

(22) Date of filing of Application :19/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : REAR TRANSMISSION ASSEMBLY OF LIVE AXLE FOR ELECTRIC VEHICLE.

(51) International classification :F16B12/00  
(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)Mr.Vishal Balaso Patil.**

Address of Applicant :Residing at A/P-Yelapur, Tal-Shirala,Dist-Sangli,415405,Maharashtra,India, An Indian National. Maharashtra India

**2)Prof.Vidya Shivanand Byakod**

**3)Prof.Sunil Pandurang Chaphalkar**

**4)Mr.Prathmesh Suresh Chavan**

**5)Mr.Vedant Vinayak Palkratwar**

**6)Mr.Yash Mahadev Godase**

**7)Mr.Bhavesh Ramdas Birdawade**

**8)Mr.Sidhalingreddy Nagareddy Sherikar.**

**9)Mr.Atharva Bhau Badadhe**

**10)Mr.Vipul Manoj Sonawane**

**11)Mr.Adarsh Milind Bhavsar**

**12) Mr.Chaitanya Sampat Kale**

**13)Mr.Aditya Sanjay Daware**

**14)Mr. Rahul Balasaheb Shelke.**

**15)Mr.Ayaz Mushtaq Nilikkar.**

(72)Name of Inventor :

**1)Mr.Vishal Balaso Patil**

**2)Prof.Vidya Shivanand Byakod.**

**3)Prof.Sunil Pandurang Chaphalkar**

**4)Mr. Rahul Balasaheb Shelke**

(57) Abstract :

ABSTRACT: In today<sup>TM</sup>s advanced automotive sector every day there are so many changes are made in every technology. When we are talking about the electric vehicles then around 98 % of electric vehicles are either run directly on electric motor or on automatic transmission system. But when we are talking about off-road electric vehicle then there is requirement of transmission system and differential to transfer the power with variable torque. We have decided to solve problem of transmission system hence we design such a drive line system which can be easily mount on any vehicle with small modifications in it. We made the transmission system consisting of rear knuckle, main axle, wheel hub, rim attachment plate, brake disc, cir clip, rubber coupling connector, rubber coupling shaft, and different rectangular keys to transfer the motion. The hexagonal nut and bolts are used to make rigid system by combining all components. It<sup>TM</sup>s a sad fact that in today<sup>TM</sup>s advance technology it is difficult to install compact drive line for power transmission. So we have made compact rear transmission assembly of live axle for electric vehicles. Our main focus is on them To provide compact power transmission drive train To provide quick wheel changing facility to the vehicle.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040683 A

(19) INDIA

(22) Date of filing of Application :20/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A STAND SYSTEM

(51) International classification :F16M13/00  
(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)Abhijeet Urhe**  
Address of Applicant :Panchavati colony, Talegaon Dabhade,  
Pune, 410 506 Maharashtra India  
**2)Uma Gadsing**  
(72)Name of Inventor :  
**1)Abhijeet Urhe**  
**2)Uma Gadsing**

(57) Abstract :

A stand system(St), comprising a table top(T) of length(l), width(w) and height(h) with fixed barriers(T1) of length(x12), width(x13) and height(x11), (T2) of length(x22), width(x23) and height(x21), (T3) of length(x32), width(x33) and height(x31), and an extendable barrier(T4) of total length(y2+y2a), width(y3) and height(y1), a ball(B), a ring(R), a stand(S), two adjustment mechanisms (Ad1), (Ad2) and air circulation slots (S1), (S2), (S3), (S4), (S5), (S6), (S7) and (S8) is disclosed. One end of said ring(R) is connected to said ball(B) and the other end of said Ring(R) is connected to said stand(S) and adjusted through said adjustment mechanism(Ad1) and (Ad2). Any portable electronic or battery operated device can be placed on said table top(T) and removably secured between said fixed barrier(T1), (T2), (T3) and said extendable barrier(T4) by extending said extendable barrier(T4) to increase the available width(w) of said table top(T) by additional width(y2) and then un-extending it. The device can be rotated horizontally, vertically or in any desired angle by the rotation of said ball(B) along with said connected table top(T). The air circulation slots (S1), (S2), (S3), (S4), (S5), (S6), (S7) and (S8) provide cooling to said portable electronic or battery operated device placed on said table top(T). Reference Figure 4

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040697 A

(19) INDIA

(22) Date of filing of Application :21/09/2020

(43) Publication Date : 09/10/2020

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(54) Title of the invention : SEARCH AND AVAILABILITY OF MEDICINE IN LOCAL PHARMACIST BY VIRTUALLY

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(51) International classification	:H04W 16/00	(71) <b>Name of Applicant :</b> <b>1)MR. JATIN KIDIYUR</b> Address of Applicant :2, ATIT SHOPPING ENTERPRISES, J.P. ROAD, NEAR APNA BAZAAR, ANDHERI (W), MUMBAI - 400053, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)MR. JATIN KIDIYUR</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

ABSTRACT The invention disclosed herein is a virtual search for availability of medicine in pharmacies nearby a current location, and more particularly to systems and methods for determining pharmacy locations having requisite availability of medicine based upon a current location.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040721 A

(19) INDIA

(22) Date of filing of Application :21/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MANIKIN DEVICE FOR DEMONSTRATING MOVEMENT OF A HUMAN BODY

(51) International classification :G09B23/00  
(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)YADAV, Trupti Saurabh**

Address of Applicant :Krishna College of Physiotherapy,  
Krishna Institute of Medical Sciences Deemed To Be  
University • , Karad, Near Dhebewadi Road, Pune-Banglore  
N.H.No. 4, Malkapur, Karad 415339. Maharashtra India

(72)Name of Inventor :

**1)YADAV, Trupti Saurabh**

**2)DHUMALE, Akshanda Anandrao**

**3)JOSHI, Devanshi Jaldip**

**4)DHURU, Prachiti Adesh**

**5)KANCHIKAR, Rutuja Nagesh**

**6)KUMTA, Saumya Sudhi**

**7)LAKKAD, Siddhi Shailesh**

**8)NIKAM, Supriya Dinkar**

**9)MEHTA, Tanvi Manish**

(57) Abstract :

Abstract Title: A manikin device for demonstrating movement of a human body The present invention is to provide a manikin device 100 for demonstrating movement of a human body. The manikin device 100 is having a framework which comprises articulated blocks of the human body. A biasing member 210 connecting the blocks as per joints of the human body. Two cavities 160 are configured on a front side of a thorax region 130 and flat plates 165, 165<sup>TM</sup> are configured thereon. The flat plates 165, 165<sup>TM</sup> are perpendicular to each other to configure plus-shaped for demonstrating the sagittal and transverse plane. The block of the head region 150 is configured with a plurality of cavities 170, 172, 174, 176, and 178 for securing rods 180, 182, and 184. Each of the rod 180, 182, and 184 is extending from the head region 150 directs left to right, front to back and on top for representing the transverse, sagittal and vertical axis respectively. Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040816 A

(19) INDIA

(22) Date of filing of Application :21/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD OF FACE RECOGNITION AND SCANNING FROM A USER DEVICE

(51) International classification	:H04W 16/00	(71)Name of Applicant : <b>1)MR. PERMINDUR SINGH</b> Address of Applicant :GURU GOBIND SINGH FOUNDATION, NASHIK Maharashtra India
(31) Priority Document No	:NA	<b>2)MR. SHRIHARI R. UPASANI</b>
(32) Priority Date	:NA	<b>3)MR. VILAS K. DHAGATE</b>
(33) Name of priority country	:NA	<b>4)MR. SURYABHAN ASHOK PATIL</b>
(86) International Application No	:NA	<b>5)MR. KHUSHAL SUDAM BACCHAV</b>
Filing Date	:NA	<b>6)MR. SAGAR RAJESH DARADE</b>
(87) International Publication No	: NA	<b>7)MR. MANSURI MOHAMAD FARZAN SARFUDIN</b>
(61) Patent of Addition to Application Number	:NA	<b>8)MR. JAYESH ANIL UGALE</b>
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	<b>1)MR. PERMINDUR SINGH</b>
Filing Date	:NA	<b>2)MR. SHRIHARI R. UPASANI</b>
		<b>3)MR. VILAS K. DHAGATE</b>
		<b>4)MR. SURYABHAN ASHOK PATIL</b>
		<b>5)MR. KHUSHAL SUDAM BACCHAV</b>
		<b>6)MR. SAGAR RAJESH DARADE</b>
		<b>7)MR. MANSURI MOHAMAD FARZAN SARFUDIN</b>
		<b>8)MR. JAYESH ANIL UGALE</b>

(57) Abstract :

A system is provided to scan a user by providing an image acquisition device (120) connected to the user device comprises a camera interface (130), wherein the camera (130) of the device scans a digital image of a user. A face detection module (140) for identifying a group of pixels corresponding to a face region of the user. A microprocessor (160) communicatively coupled to the image acquisition device of the user device (110), wherein the microprocessor (160) compares parameters of the digital image to a threshold value and transmits command to a user display interface (170). A database storage interface (150) connected to the microprocessor (160) to store the digital image scanned by the camera of the device, wherein the microprocessor (160) transmits a command to a switching interface such that the user display (170) of the device is turned into an active mode when the age of the user is above the threshold value and is turned into a sleep mode when the user is below the threshold value. The microprocessor (160) automatically adjusts the user display (170) on parameters such as brightness and sound of the user device (110) as per a distance between the user and the display, when the user device (110) is turned into the active mode.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040822 A

(19) INDIA

(22) Date of filing of Application :21/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : INSTANT WATER HEATER SYSTEM

(51) International classification	:F24H9/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Tibio Innovation Solutions Pvt. Ltd.</b>
(32) Priority Date	:NA	Address of Applicant :101, Amar Towers, AnandraoDevale
(33) Name of priority country	:NA	Marg, Near Chandan Theatre, Juhu, Mumbai, Mumbai City
(86) International Application No	:NA	400049, Maharashtra, India. Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Amit Inamdar</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Siddharth Bhide</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

INSTANT WATER HEATER SYSTEM Abstract Disclosed is an instant water heater system (100) capable of providing warm water instantly when a system outlet (130) is opened, without a need to drain out cold water in the pipeline till the hot water reaches the outlet. The system (100) mainly comprises a main heater (20), a storage tank (60) fitted with a secondary heater (70), a recirculation unit (100), plurality of temperature sensors (50, 80, 90), a flow detector (40), an object detector (30) and a controller (150). On detecting the presence of user near the system outlet (130) and the flow detector (40), the controller (150) triggers the heaters (20, 70) to turn ON or OFF depending upon the input received from temperature sensors (50, 80),The recirculation unit (100) is also triggered ON or OFF depending upon the temperature of water accumulated in the outlet pipeline (65), ensuring supply of warm water instantly when required. Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021040851 A

(19) INDIA

(22) Date of filing of Application :21/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : EXPERIMENTAL AND NUMERICAL ANALYSYS OF ABRASIVE WATER JET MACHINING PROCESS

(51) International classification	:B24C1/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mr. Kanapala Rajendra Prasad</b>
(32) Priority Date	:NA	Address of Applicant :Sri Satya Sai University of Technology
(33) Name of priority country	:NA	& Medical Science Bhopal-Indore Road Sehore, M.P, India
(86) International Application No	:NA	Madhya Pradesh India
Filing Date	:NA	<b>2)Dr.G.R.Selokar</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Mr. Kanapala Rajendra Prasad</b>
Filing Date	:NA	<b>2)Dr.G.R.Selokar</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abrasive Water jet machining (AWJM) is a complex, non-conventional machining process widely used, where material is removed by the application of extremely high pressure (100-400 bar) water particles suspended in a water medium with abrasive particles through a nozzle. AWJM is mainly used to cut shapes, drill holes and de-burr in hard and brittle materials like glass, ceramics etc. In recent years, a large amount of research has been carried out to understand the process and to improve its performance. There are several parameters influencing the performance of water jet machining.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041184 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL FORMULATION FOR EASY REMOVAL OF METAL NUTS AND BOLTS USED IN INDUSTRIES AND METHOD OF PREPARING THE SAID NOVEL FORMULATION.

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)VIJAY RAMESH PATIL</b>
(32) Priority Date	:NA	Address of Applicant :Plot No. M-186, M.I.D.C., Jalgaon-
(33) Name of priority country	:NA	425003, Dist. Jalgaon Maharashtra, India Maharashtra India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)VIJAY RAMESH PATIL</b>
(87) International Publication 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 lubricant formulation for easy removal of metal nuts and bolts used in Industries. Further, the present invention also relates to a simple and easy method of preparing the said novel lubricant formulation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041223 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : HOLDER FOR HOLDING AND REMOVING TEETH CLEANING TWIGS AND METHOD THEREOF

(51) International classification

:A61B  
17/00

(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)Uday Purushottam Chaudhari**

Address of Applicant :NSG Royal One, Flat No. A307, New DP Road, Pimple Nilakh, Pune-411027, Maharashtra, India. Maharashtra India

**2)Mamta Uday Chaudhari**

(72)Name of Inventor :

**1)Uday Purushottam Chaudhari**

**2)Mamta Uday Chaudhari**

(57) Abstract :

ABSTRACT OF THE INVENTION HOLDER FOR HOLDING AND REMOVING TEETH CLEANING TWIGS AND METHOD THEREOF Holder (100) provides advantages over prior-arts of conveniently cleaning teeth internally and externally by use of small sized naturally available teeth cleaning twigs (10) replaceably held in a reusable holder. The holder (100) is assembly of a head portion (10) and a body portion (20). The head portion (10) has a receptacle section (21) to receive teeth cleaning twig (10). The neck section has a cavity (22a) that is in connection with an opening (21c) of the receptacle section (21). The neck section (22) is in thread connection with the head portion (10). The head portion (10) has an inserting section (30a) with the holder rod (30aii). The head portion (10) is rotated to facilitate holding and releasing of the teeth cleaning twig (10). The method provides convenience to replace teeth cleaning twigs (10) to reuse the holder (100). (To be published with Figure 1)

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041315 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : DESIGN AND SYNTHESIS OF SUBSTITUTED NOVEL BENZIMIDAZOLE DERIVATIVES AS POTENT ANTICANCER AGENTS

(51) International classification	:A61K 31/00	(71)Name of Applicant : <b>1)Mr. Deepak Prabhakar Kardile</b> Address of Applicant :Research Scholar (PhD), Department of Pharmacy, Madhav University, Assistant Professor, Department of Pharmaceutical Chemistry, Rajgad Dnyanpeeth™s College of Pharmacy, Bor, Pune-412206 Maharashtra India
(31) Priority Document No	:NA	<b>2)Dr. Mrunal Krishnarao Shirsat</b>
(32) Priority Date	:NA	<b>3)Dr. Shete Rajkumar Virbhadrappa</b>
(33) Name of priority country	:NA	<b>4)Mr. Bhagat Vishwas Chandrakant</b>
(86) International Application No	:NA	<b>5)Mr. Awate Pravin Baburao</b>
Filing Date	:NA	<b>6)Mr. Satish Vijaykumar Kilaje</b>
(87) International Publication No	: NA	<b>7)Mr. Adak Vishal Sudam</b>
(61) Patent of Addition to Application Number	:NA	<b>8)Mr. Sonawane Rahul Atmaram</b>
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	<b>1)Mr. Deepak Prabhakar Kardile</b>
Filing Date	:NA	<b>2)Dr. Mrunal Krishnarao Shirsat</b>
		<b>3)Dr. Shete Rajkumar Virbhadrappa</b>
		<b>4)Mr. Bhagat Vishwas Chandrakant</b>
		<b>5)Mr. Awate Pravin Baburao</b>
		<b>6)Mr. Satish Vijaykumar Kilaje</b>
		<b>7)Mr. Adak Vishal Sudam</b>
		<b>8)Mr. Sonawane Rahul Atmaram</b>

(57) Abstract :

A process of synthesis, biological evaluation and QSAR studies of substituted benzimidazole derivatives is provided. The process includes of studying antitubercular activity of benzimidazole derivatives by using MABA method against tested microorganism such as Mycobacterium tuberculosis (H37Rv strain, ATCC 27294) using Pyrazinamide, Ciprofloxacin and Streptomycin as standard drugs; performing 2D-QSAR analysis of antitubercular activity studies using MLR and PLS method, studying antimicrobial activity of benzimidazole derivatives against tested microorganism such as Escherichia coli (ATCC 25922), Bacillus subtilis (ATCC 6051) and Aspergillus Niger (ATCC 6275) by using brain heart infusion broth dilution method (BHIBDM) method, performing 2D-QSAR analysis of antimicrobial activity with the help of the MLR method; studying anticancer activity of benzimidazole derivatives with the help of method against cell line A-459; Adriamycin as standard drug; and Molecular docking results for antioxidant activity conclude that the substitution of the amino group (-NH<sub>2</sub>), nitro group (-NO<sub>2</sub>) and halogenated group can best binding affinity with the PDB 1CB4 among the series of substituted novel benzimidazole derivatives.

No. of Pages : 30 No. of Claims : 9

(54) Title of the invention : SYSTEM FOR CREATION OF SUSTAINABLE EMPLOYABILITY AND METHOD THEREOF

(51) International classification	:H04W 21/00	(71)Name of Applicant : <b>1)Ms. Ruchi Jain</b> Address of Applicant :Indira Gandhi National Tribal University, Lal Pur, Amarkantak, Madhya Pradesh 484886, India Madhya Pradesh India
(31) Priority Document No	:NA	<b>2)Prof. Vineet Kansal</b>
(32) Priority Date	:NA	<b>3)Dr. VIKASH KUMAR SINGH</b>
(33) Name of priority country	:NA	<b>4)Dr. Munesh Chandra Trivedi</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Prof. Vineet Kansal</b>
(87) International Publication No	: NA	<b>2)Dr. Munesh Chandra Trivedi</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Ms. Ruchi Jain</b>
Filing Date	:NA	<b>4)Dr. VIKASH KUMAR SINGH</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a system for creation of sustainable employability using an automated relational database, said system comprising: a processor; and a memory communicatively coupled to the processor. The memory stores processor instructions, which, on execution, causes the processor to:receive a plurality of input data from a plurality of sources; analyze said plurality of input data based on a matching skill between said plurality of employee data and said plurality of skill requirements by said employer; classify each of a plurality of employees from the plurality of employee data based on said matching skills; automatically select and display said plurality of employees with said matching skills in said employee database to the employer, and said plurality of skill requirements by said employer to said employee with said matching skills; and forecast said plurality of skill requirements to each of the employees.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041441 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM FOR DETECTING OVERLOAD CONDITION IN COMMERCIAL VEHICLE

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. Mahip Bartere</b>
(32) Priority Date	:NA	Address of Applicant :G H Rasoni University, Anjangaon-
(33) Name of priority country	:NA	Bari road, Amravati, Maharashtra Maharashtra India
(86) International Application No	:NA	<b>2)Pratik D. Shah</b>
Filing Date	:NA	<b>3)Akshay Kadu</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Dr. Mahip Bartere</b>
Filing Date	:NA	<b>2)Pratik D. Shah</b>
(62) Divisional to Application Number	:NA	<b>3)Akshay Kadu</b>
Filing Date	:NA	

(57) Abstract :

The present invention relates to the vehicle overload detecting system. The said invention provides an effective approach to detect if a vehicle is overloaded. The said invention can be used to detect the overload condition of any class of vehicle. The said invention is operational at the toll plaza and it consists of two stages. First stage consists of detecting the current weight of the system and the second stage consists of fetching the vehicle details by capturing vehicle number and deciding whether the vehicle is overloaded. The process for detecting the vehicle overload condition is very fast, efficient and completely automatic.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041458 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMAER & EFFICIENT WILD LIFE TRACKING IN FOREST

(51) International classification :G06F11/00  
(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)MR.NARESHKUMAR R. MUSTARY**

Address of Applicant :C/O DEVIDAS BALWADKAR,  
NEAR PALAK PARK SOCIETY, BEHIND VITTHAL TEMPLE  
BALEWADIGAON, BALEWADI, PUNE-411045,  
MAHARASHTRA, INDIA. Maharashtra India

**2)DR.S.PHANI KUMAR**

**3)MRS. P. P. SHEVATEKAR**

**4)DR. MANISHA BHENDE**

**5)Dr. ANUPAMA V. PATIL**

**6)DR. P. P. HALKARNIKAR**

**7)MRS. SUVARNA PATIL**

**8)MRS. POOJA MISHRA**

**9)MR. BABASAHEB SATPUTE**

**(72)Name of Inventor :**

**1)Dr. ANUPAMA V. PATIL**

**2)MRS. SUVARNA PATIL**

**3)MRS. POOJA MISHRA**

**4)MR. BABASAHEB SATPUTE**

**5)MR.NARESHKUMAR R.MUSTARY**

**6)DR.S.PHANI KUMAR**

**7)MRS. P. P. SHEVATEKAR**

**8)DR. P. P. HALKARNIKAR**

**9)DR. MANISHA BHENDE**

**(57) Abstract :**

SMAER & EFFICIENT WILD LIFE TRACKING IN FOREST The present subject matter discloses a system and a method for determining the static and dynamic routing between the objects at forest using routing based device in Wi Fi network. The physical parameters like longitude and latitude, related to the position of wild animal/living species and observer are monitored using static/dynamic routing based device in wireless network. A static/dynamic routing based smart and efficient wildlife tracking inn forest system using wireless sensor network for wild animal/living species, for maintaining distance, computing the optimal path building route between objects of interest. With the help of various tokens we can measure parameters like longitude, latitude which helps to compute path and clean by triggering alert or messages to administrator. The system detects alert conditions related to the location of wild animal/living species and takes a control action for determining the physical parameters during an alert situation. The system may also intimate observer(s) of the static/dynamic routing formation with the optimal path. Through dynamic routing based system we can send messages to control room to observer for routing information of the wild animal/living species and observer. With this device, we can save resources like money and time and reduce the complexity.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041605 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING SAFE HANDLING OF VALUABLES AND THEIR SECURITY THEREOF

(51) International classification :G06T7/00  
(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)Nirbhi Techno LLP**  
Address of Applicant :325 Near Virbhadra Temple, Patil Galli,  
Gaonbhag, Sangali, 416416 Maharashtra, India Maharashtra India  
(72)**Name of Inventor :**  
**1)Prashant Anant Gore**  
**2)Abhijit Vidhyadhar Dharmadhikari**  
**3)Sahas Premraj Chandak**

(57) Abstract :

Title: SYSTEM AND METHOD FOR MONITORING SAFE HANDLING OF VALUABLES AND THEIR SECURITY THEREOF  
ABSTRACT: Disclosed herein is a system (150) and method for monitoring safe handling of valuables and their security thereof when kept stationary or are transported to another location. The system comprises a security device (153) of varying dimensions adequate to accommodate the volume of valuables. It is operably connected to a data server (151) through the internet (152). The said device further comprises functionally coupled multiple security controls and sensors. Depending on the type of valuables being transported, predefined security parameters are enabled by the system prior to their transportation from source (154) to the destination (155). Auto-generated live security reports are important ready references for customers, investigation agencies and similar, for taking necessary actions against complaints lodged in the system for mishandling, loss of valuables and the said device. The said system is an affordable, speedy and result oriented security system thereby eliminating human intervention to a great scale. Figure 1

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041606 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR PREDICTING RHEUMATOID ARTHRITIS USING DIGITAL IMAGE PROCESSING

(51) International classification

:A61B  
17/00

(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)MATE GITANJALI SUBHASH**

Address of Applicant :A2 502, 10, ELLITE, KADAM

JAGTAP ASSOCIATES, NEAR RAM KRISHNA MANGAL

KARYALAY, PIMPLE GURAV, PUNE - 411061,

MAHARASHTRA, INDIA. Maharashtra India

**2)DR. KURESHI ABDUL KADIR**

(72)Name of Inventor :

**1)MATE GITANJALI SUBHASH**

**2)DR. KURESHI ABDUL KADIR**

(57) Abstract :

Abstract Rheumatoid Arthritis (RA) results in pain of primary peripheral joints like fingers, wrist and feet. This disease results in joint pain, stiffness, swelling of the joints which showed deformity and ankylosis in the late stages of the disease. In this invention, the Automatic Detection of Rheumatoid Arthritis Using Digital Image Processing is implemented using X-Ray Scanning machine which will going to scan real time image of patient. The scan x ray of patient will be pre-processed where all the noise from the data is removed. The noise free image is the pass to feature extraction module where the features extraction of image is take place. To implement this invention the data set of 1000 patients considered from which 600 images are used for training and other 400 are used for testing

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041834 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ND2TB NOVEL DIAGNOSIS DEVICE FOR TUBERCULOSIS

(51) International classification

:A61B5/00

(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)Ka Patel Dhruvi Jayeshkumar**

Address of Applicant :Student of GTU Affiliated College Jay  
Amba • Bhuder Pole, Sojitra Anand, Gujarat India- 387240  
Gujarat India

**2)Hasan Mosin Ibrahim**

**3)Patel Narendra Manorbhai**

**4)Sharma Kirtikumar Jashavantbhai**

(72)Name of Inventor :

**1)Ka Patel Dhruvi Jayeshkumar**

**2)Hasan Mosin Ibrahim**

**3)Patel Narendra Manorbhai**

**4)Sharma Kirtikumar Jashavantbhai**

(57) Abstract :

The present novel invention ND2TB Novel Diagnosis Device for Tuberculosis is a device that automatically performs tuberculosis diagnosis process, the data is transferred to this device using a USB flash drive or a direct connection of microscope with the processing device. The present invention uses fluorescent stained microscopy images as a dataset. This dataset (fluorescent stained microscopy images) are further used to train our novel model which is based on UNET. Once the system is trained, provide input to the device ND2TB • and result displayed on the LCD screen of the device ND2TB • . Input is passed to the novel model which is based on UNET and product output as a mask of the mycobacterium. In the second step MinMax normalization is performed to make the mask value uniform. From the output of the Min-Max normalization by applying threshold a binary image is created. The binary image passed to the connected component labelling to find the total number of mycobacterium. Finally on LCD screen Tuberculosis is positive or negative status and the total number of mycobacterium is displayed. It also reduces the burden of technical people for manual evaluation of stained slides. Using this novel technique an accuracy of 97.9 % is achieved and it can be further improved as we keep the model training ongoing.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041842 A

(19) INDIA

(22) Date of filing of Application :26/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : THREE LASER BEAMS DETECTION ARRANGEMENT FOR MEASUREMENT OF GRAVITATIONAL ACCELERATION

(51) International classification :G09B23/00  
(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)Dr. Sadhan Chandra Das**

Address of Applicant :Electronics and Instrumentation  
Laboratory, UGC-DAE Consortium for Scientific Research,  
University Campus, Khandwa Road Indore Madhya Pradesh India  
Madhya Pradesh India

(72)Name of Inventor :

**1)Dr. Sadhan Chandra Das**

**2)Mr. Sagnik Das**

**3)Mr. Nandkishor Ghodke**

**4)Dr. Sumant Katiyal**

**5)Dr. Abhijit Majumdar**

(57) Abstract :

THREE-LASER BEAMS DETECTION ARRANGEMENT FOR MEASUREMENT OF GRAVITATIONAL ACCELERATION The present subject matter relates to three-laser beams detection arrangement for measurement of gravitational acceleration comprising a long polyvinyl chloride (PVC) pipe (101) having three-level detection points (L1, L2, L3); three laser LEDs (LD1, LD2, LD3) and three detectors (D1, D2, D3) fixed exactly with each level on opposite sides of the outer surface of the PVC pipe (101). Further, a transistor goes to a cutoff region making collector-emitter voltage high around 5V when an object cuts the laser beam during its motion downwards due to a gravitational field, and hence the transistor remains at the cutoff region as long as the object passes through the laser beam such that the object crosses the other two beams. The object travels downwards by more and more distances, thereby increasing the velocity due to gravitational acceleration (g). Here transistor BC108 is uniquely used as a laser detector. The derived equation for g is a function of distance and time. The numerator term of the derived equation is always positive irrespective of distances between the laser beams.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041916 A

(19) INDIA

(22) Date of filing of Application :27/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CLASSROOM BEHAVIOR FEEDBACK SYSTEM AND METHOD

(51) International classification :G06F19/00  
(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)Dr. Rashmi Yadav**

Address of Applicant :Shivajirao Kadam Institute of Technology and Management, Near Rala Mandal Village Tillore Khurd , Indore-452020 Madhya Pradesh India Madhya Pradesh India

**2)Dr. Ravindra Patel**

**3)Er. Balvinder Singh Gurudutta**

(72)Name of Inventor :

**1)Dr. Rashmi Yadav**

**2)Dr. Ravindra Patel**

**3)Er. Balvinder Singh Gurudutta**

(57) Abstract :

Disclosed is a classroom behavior feedback system (100) that includes a video intelligent device (108), a video framing, and filtering module, a student emotion analysis module, a student information management module (202), a feedback generation module (204), and a depression detection and counseling alert module (206). The video intelligent device (108) captures live video of the students present in a classroom (208). The video framing and filtering module processes the live video captured by the video intelligent device (108) by utilizing a framing and filtering on a selected appropriate frame. The student emotion analysis module receives the selected appropriate frame processed by the video framing and filtering module and matches with pre-stored emotions to detect mood types of the students. The student information management module (202) facilitates the students to input personal information on selected points displayed over a user-interface of computing devices (104). The student information management module (202) creates profiles of the students. The feedback generation module (204) generates feedback data containing mood types for each of the profiles. The feedback generation module (204) transmits the feedback data to the plurality of computing devices (104) corresponding to the students. The depression detection and counseling alert module (206) transmits an alert signal to the computing devices (104) upon detection of a negative emotion type by the student emotion analysis module. The most illustrative drawing: FIG. 2.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041920 A

(19) INDIA

(22) Date of filing of Application :27/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED HEART DISEASE MONITORING SYSTEM INTEGRATED WITH IOT

<p>(51) International classification :H04W 16/00</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 Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Sandeep Ponde, NCRD™s Sterling Institute of Management Studies</b> Address of Applicant :NCRD™s Sterling Institute of Management Studies Opp Seawood Rly.Stn, Nerul (E) Navi Mumbai Maharashtra India 400706 Maharashtra India</p> <p><b>2)Dr. Sandeep Gupta, JECRC University, Jaipur</b></p> <p><b>3)Dr. Rashmi Mishra, Noida Institute of Engineering &amp; Technology, Greater Noida</b></p> <p><b>4)Dr Manoj Sharma, Sagar Institute of Research and Technology</b></p> <p><b>5)Dr. Dharendra Kumar Shukla, Regional Institute of Education, NCERT</b></p> <p><b>6)N. Praneeth, Gurunanak Institute of Technology</b></p> <p><b>7)Dr. Mopidevi SubbaRao, Vignan's Foundation for Science , Technology and Research</b></p> <p><b>8)Mr.Polamraju.V.S.Sobhan, Vignan's Foundation for Science , Technology and Research</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Sandeep Ponde, NCRD™s Sterling Institute of Management Studies</b></p> <p><b>2)Dr. Sandeep Gupta, JECRC University, Jaipur</b></p> <p><b>3)Dr. Rashmi Mishra, Noida Institute of Engineering &amp; Technology, Greater Noida</b></p> <p><b>4)Dr Manoj Sharma, Sagar Institute of Research and Technology</b></p> <p><b>5)Dr. Dharendra Kumar Shukla, Regional Institute of Education, NCERT</b></p> <p><b>6)N. Praneeth, Gurunanak Institute of Technology</b></p> <p><b>7)Dr. Mopidevi SubbaRao, Vignan's Foundation for Science , Technology and Research</b></p> <p><b>8)Mr.Polamraju.V.S.Sobhan, Vignan's Foundation for Science , Technology and Research</b></p>
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(57) Abstract :

In this invention, detection of cardiac disease is proposed based on Artificial Intelligence (AI) integrated with Internet of Things (IoT) by analyzing the electrocardiogram (ECG). The system involves front end hardware based on IoT that can be operated using smart application along with AI platform and cloud database for detection of cardiac disease. This invention is able to detect heart abnormalities namely atrial fibrillation, atrial flutter and ventricular fibrillation. Front end hardware is based IoT which involves ECG patch consisting of wearable analog front end circuit with a Bluetooth module able to detect ECG signals. Real time ECG signal is displayed on the smart devices via the application which is also able to label instantly unusual signals detecting cardiac disease in real time. ECG signals recorded from the wearable ECG patch is sent to cloud database where ECG signals of each of the user is stored, acting as a big data database for the Artificial Intelligence algorithm for detecting cardiac disease. Algorithm for detection of heart disease is based on convolutional neural network which provides an accuracy of 94.8%.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021041946 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : COST EFFECTIVE SYSTEM FOR DEFECT DETECTION IN FUEL PUMP.

(51) International classification	:F16D3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)MR.VIKRAM SUBHASHRAO SUVARNKAR</b>
(32) Priority Date	:NA	Address of Applicant :DR. D. Y. PATIL INSTITUTE OF
(33) Name of priority country	:NA	TECHNOLOGY,PIMPRI, PUNE-411018, MAHARASHTRA,
(86) International Application No	:NA	INDIA. Maharashtra India
Filing Date	:NA	<b>2)MR. CHANDRA MINESH SHAH</b>
(87) International Publication No	: NA	<b>3)MR. HARSH CHETAN DOSHI</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)MR.VIKRAM SUBHASHRAO SUVARNKAR</b>
(62) Divisional to Application Number	:NA	<b>2)MR. CHANDRA MINESH SHAH</b>
Filing Date	:NA	<b>3)MR. HARSH CHETAN DOSHI</b>

(57) Abstract :

ABSTRACT In the age of modernization of automobile industry the detection of various trouble/ defects in vehicles/ trucks has made our life convenient. But there are various components that if damaged are not readily detected. One such example is the decrease in the overall efficiency/mileage of the vehicle due to damage in the fuel pump which usually goes undetected. Overtime the components inside the fuel pump start to wear out forming bur. This bur in turn blocks the fuel injector disturbing/decreasing the fuel released from the injector. The proposed system will act as a preventive measure for the blockage of fuel injector there by not tempering with the efficiency/mileage of the vehicle. So, using our proposed system we can detect the damage in the fuel pump. This will save the mechanic a load of trouble in finding the root of the problem and reduce the overall time in detection of the problem there by saving time and money of the consumer.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021042927 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PHARMACEUTICAL COMPOSITION COMPRISING A COMPRESSED POLYHERBAL TABLETS FOR THE TREATMENT OF INFECTIONS CAUSED BY HELMINTHES.

(51) International classification	:A61K 36/00	(71)Name of Applicant : <b>1)Arun Kumar Pandey</b> Address of Applicant :Residenace Add: Flat no. 1403-A wing, Chaturbhuj Housing Soc., Plot No. 61/62, Near Shilp Chowk, Sector- 21,Owe, Raigarh, Mumbai, Maharashtra,India-410210 Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	<b>2)Dr. Chandra Kishore Tyagi</b>
Filing Date	:NA	<b>3)Dr. Sunil Kumar Shah</b>
(87) International Publication No	: NA	<b>4)Dr. Pavan Kumar Rawat</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Arun Kumar Pandey</b>
(62) Divisional to Application Number	:NA	<b>2)Dr. Chandra Kishore Tyagi</b>
Filing Date	:NA	<b>3)Dr. Sunil Kumar Shah</b>
		<b>4)Dr. Pavan Kumar Rawat</b>

(57) Abstract :

The present invention relates to pharmaceutical compositions and, more particularly, to a pharmaceutical composition comprising a compressed polyherbal tablets for the treatment of infections caused by Helminthes.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021043072 A

(19) INDIA

(22) Date of filing of Application :04/10/2020

(43) Publication Date : 09/10/2020

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(54) Title of the invention : DEVELOPMENT OF THERMAL CONDUCTIVITY AND MATURITY METER

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(51) International classification	:E04B1/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)HANAMANT RAJARAM MAGARPATIL</b>
(32) Priority Date	:NA	Address of Applicant :Prof. H. R. MagarPatil A603,
(33) Name of priority country	:NA	Chintamani Garden, Sr. No. 29/8/1, Ambegaon BK, Near Nilgiri
(86) International Application No	:NA	Compound, Pune 411046 Maharashtra India
Filing Date	:NA	<b>2)SUMANT NIVRUTTI SHINDE</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Mrudula Sanjay Kulkarni</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In present invention, thermal conductivity meter is designed and developed. The thermal conductivity of the Civil Engineering Structures could be found out using it. It will also help in determining the maturity level of concrete. This will help in understanding various physical and chemical properties of concrete.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202024041106 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART PILL BOX SYSTEM FOR PATIENTS AND BLIND PEOPLE

(51) International classification :H04W  
16/00  
(31) Priority Document No :new  
(32) Priority Date :22/09/2020  
(33) Name of priority country :India  
(86) International Application No :NA  
Filing Date :NA  
(87) 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)Prof R D Kadam**

Address of Applicant :EXTC Deptt. BDCOE, Sevagram  
Maharashtra India

**2)Dr Ujwal D Gulhane**

**3)Ms Disha Avinash Rajgure**

(72)Name of Inventor :

**1)Dr Ujwal D Gulhane**

**2)Prof R D Kadam**

**3)Dr Nandkishor M Sawai**

**4)Prof P R Indurkar**

(57) Abstract :

The main aim to develop this system is to help those folks that regularly take medicines and therefore the prescription of their medicine is incredibly long because it is tough to recollect to patients and also for his or her care giver, also adulthood patients suffer from problems of forget to require pills on proper time or as per the prescription which causes certain health issues for patients having Permanent diseases like diabetes, pressure, breathing problem, heart problems, cancer diseases etc, we saw these problems in hospitals & people around us who have such quite diseases and thus supported these two problems we made smart pill box which solve these problems by fitting agenda of prescribed medicines through push buttons as given in prescription, all pill boxes are pre-loaded within the system which patient must take at given time, the existing module contain voice recorder, speaker and vibrator for maturity patients and blind people take pill from box using vibrator suited the box, using IOT no of pill in to box are going to be monitor by doctor or patient relative.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941023932 A

(19) INDIA

(22) Date of filing of Application :17/06/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM AND METHOD FOR IMPROVISING NON-PLAYER CHARACTER BEHAVIOR IN GAMES

(51) International classification	:A23K0020147000, C12P0019040000, B82Y0030000000, C22B0003000000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)SRM INSTITUTE OF SCIENCE AND TECHNOLOGY</b> Address of Applicant :Kattankulathur, Chennai-603203, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SARANYA ASHOKKUMAR</b>
(33) Name of priority country	:NA	<b>2)ROAHIT</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 SYSTEM AND METHOD TO ADAPT A NON-PLAYER TO A PLAYER'S BEHAVIOUR IN A GAME The present disclosure relates to a system and method to adapt a non-player to a player's behaviour in a game. The system (100) comprises a memory (102) , an analysing unit (108), a player detection unit (106), a traversing unit (110), combat unit (112), patrol unit (116), and an adaptive unit (120). The analysing unit (108) generates a behaviour signal based on the comparison of the archive behaviour with the player<sup>TM</sup>s behaviour based on the list. The player detection unit (106) generate signal signal based on the detection and non-detection of the player. The traversing unit (110) generate attack signal if the player is detected. The combat unit (112) attack on the detected player based on the attack signal. The patrol unit (116) move the non-player through routes for detection. The adaptive unit (120) train the non-player based on the player's behaviour and the behaviour signal.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941033341 A

(19) INDIA

(22) Date of filing of Application :19/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM TO MONITOR PIGEON-PEA AGRICULTURE ALONG WITH HELICOVERPA ARMIGERA PEST CONTROL USING

(51) International classification :G01D0021020000,  
G01S0017880000,  
A01G0007000000,  
G06Q0050020000,  
C05G0003000000

(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)Jayasbree Agarkhed**  
Address of Applicant :PROFESSOR, DEPARTMENT OF  
CSE P.D.A COLLEGE OF ENGINEERING, KALABURAGI,  
KARNATAKA-585102, INDIA. Karnataka India  
**2) Vijayalaxmi Kadrolli**  
**3) Siddarama R. Pati**

(72)Name of Inventor :  
**1)Jayasbree Agarkhed**  
**2) Vijayalaxmi Kadrolli**  
**3) Siddarama R. Pati**

(57) Abstract :

ABSTRACT: This invention consists of a system which is capable of monitoring a dryland agricultural farm using wireless sensor assembly. The sensor assembly is made capable of detecting the parameters of soil including the moisture content, temperature, PH value, nutrients and others which are suitable for the cultivation of red gram pulses. The system is also capable of attracting and tracing the type of Helicoverpa armigera pests which are damaging the crops so that needful action can be taken and only adequate amount of Helicoverpa armigera pesticide is used without overusing the fertilizer and fertilizers which can spoil the quality of the soil. The data obtained by the sensors are processed at the base station and the farmer is notified with the alert message received from the sensors to take action

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941034806 A

(19) INDIA

(22) Date of filing of Application :29/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING CLINICAL AND PHYSICAL INTERVENTIONS USING ELECTRO-MECHANICAL APPARATUS

(51) International classification	:A61B0005110000, G16H0010600000, G06Q0050220000, G16H0050200000, G16H0040670000	(71)Name of Applicant : <b>1)KARTHIKEYAN GOPINATHAN</b> Address of Applicant :Flat no. 303, Sowmya Springs, 5/2 Diwan Madhava Rao Road, Basavanagudi, Bangalore. Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)KARTHIKEYAN GOPINATHAN</b>
(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 simple, cost-effective, home and hospital compatible, self-assessment system and method for cognitive, speech and motor rehabilitation of the patients. Referring to FIG. 1, the system (100) for improving clinical and physical interventions using an electro-mechanical apparatus (140), comprises of plurality of sensor pods (112a, 112b) positioned in different positions of three-dimensional area for collecting clinical, non-clinical and performance data from both receiver (110) and transmitter (120); hub (114a, 114b) for transmitting the obtained data from the sensor pods (112a, 112b); a server (130) with an algorithm and recommendation engine for receiving the data obtained through the hub (120) and providing the automatic personalized feedback (116a, 116b); portable electro-mechanical apparatus (140a, 140b) for performing the physical movements based on the personalized feedback (150); portable electronic device (118a, 118b) for monitoring the progress of the receiver (110) remotely by the transmitter (120).

No. of Pages : 28 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941040278 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A METHODOLOGY OF SPECTRUM SENSING OF COGNITIVE RADIO SYSTEMS USING CLUSTER-BASED PROCEDURE

(51) International classification	:H04W0016140000, H04W0072020000, H04W0024000000, H04W0088020000, H04W0016220000	(71) <b>Name of Applicant :</b> <b>1)Siddarama R. Patil</b> Address of Applicant :Professor And H.O.D., Department of E&Ce, P.D.A. College of Engineering, Kalaburagi, India. Karnataka India
(31) Priority Document No	:NA	<b>2)Vilaskumar Patil</b>
(32) Priority Date	:NA	<b>3)Jayashree Agarkhed</b>
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Siddarama R. Patil</b>
Filing Date	:NA	<b>2)Vilaskumar Patil</b>
(87) International Publication No	: NA	<b>3)Jayashree Agarkhed</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT This invention illustrates an optimal cluster based spectrum sensing and resource allocation (OCSR) methodology for cognitive radio networks to overcome the challenge in the spectrum sensing. Spectrum sensing, mobility, sharing, and management are common parameters that are considered in cognitive radio network. The proposed system consist of different optimization process. The first contribution of OCSR is for the cluster process which uses equilibrium whale optimization (EWO). The cluster process includes the division of channels into occupied sub-band set (OSS) and the idle sub-band set (ISS). The second contribution is for spectrum sensing problems and the spectrum sensing is used to improve the detection performance. The technique proposed is the isolated K-best detectors. The third contribution is for prioritization of the traffic levels. The technique used for the prioritization of the traffic levels is differential evolution algorithm. This methodology is implemented into any wireless network where spectrum sharing is necessary for effortless and inexpensive communication.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941040286 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : WORKING OF A SECURED MULTI-TENANT FRAMEWORK IN CLOUD COMPUTING SYSTEMS IN HEALTH CARE MANAGEMENT SYSTEMS

(51) International classification	:G06F0009455000, G06F0021620000, H04L0029060000, G06F0021530000, G06F0021410000	(71)Name of Applicant : <b>1)JAYASHREE AGARKHED</b> Address of Applicant :PROFESSOR, DEPARTMENT OF CSE, P. D. A COLLEGE OF ENGINEERING, KALABURAGI Karnataka India
(31) Priority Document No	:NA	<b>2)ASHALATHA R</b>
(32) Priority Date	:NA	<b>3)SIDDARAMA R. PATIL</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)JAYASHREE AGARKHED</b>
Filing Date	:NA	<b>2)ASHALATHA R</b>
(87) International Publication No	: NA	<b>3)SIDDARAMA R. PATIL</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention illustrates a healthcare management system which is set up with a multi-tenant framework using cloud service. Here a virtual machine (VM) is utilized for processing digital data, in particular medical data by executing a digital data processing application program, in particular a medical data application program where the virtual machine being a simulation of a computer which is capable of securely storing and retrieving data. The object of the invention is to enable a fast processing of digital data by a virtual machine by providing security as well as privacy using public cloud services in healthcare system.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941042625 A

(19) INDIA

(22) Date of filing of Application :21/10/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM TO MONITOR SENSOR NETWORK BASED SMART GREENHOUSE FOR THE CULTIVATION OF DENDROBIUM

(51) International classification	:A01G0009140000, A01G0007040000, A01G0009240000, A01G0009260000, A61K0036898400	(71) <b>Name of Applicant :</b> <b>1)Jayashree Agarkhed</b> Address of Applicant :PROFESSOR, DEPARTMENT OF CSE, P.D.A COLLEGE OF ENGINEERING, KALABURAGI, KARNATAKA, INDIA-585102. Karnataka India
(31) Priority Document No	:NA	<b>2)Patil Yogita Dattatrya</b>
(32) Priority Date	:NA	<b>3)Siddarama R. Patil</b>
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Jayashree Agarkhed</b>
Filing Date	:NA	<b>2)Patil Yogita Dattatrya</b>
(87) International Publication No	: NA	<b>3)Siddarama R. Patil</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention is a sensor-based network setup designed with the facility of precision farming for Greenhouse architectural farming of dendrobium. The system comprises a greenhouse consisting of Dendrobium plantation, a monitoring part and an adjusting part. The monitoring part comprises a detection unit a local area network, a control center and a monitoring unit arranged in the greenhouse. The electronic information technology provided has the. advantages that by adopting the system precision farming is performed and the real-time environment conditions of dendrobium growth can be acquired, calculation is carried out according to the real-time environment conditions, calculated and processed data is adjusted, and a successive wise generation wild performance of dendrobium is ensured through simulating a growing environment and needfiil action required in the greenhouse can be performed and the user can also be notified' connected remotely to the central.system.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941044634 A

(19) INDIA

(22) Date of filing of Application :04/11/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM TO REMOTELY MONITOR THE HEALTH OF THE ELDERY USING SENSOR ASSEMBLY FOR TIMELY MEDICATION

(51) International classification :A61B0005000000,  
A61J0007040000,  
A61J0007000000,  
A61J0001030000,  
G06Q0050220000

(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)Jayashree Agarkhed**  
Address of Applicant :Professor, Department Of CSE P.D.A  
College Of Engineering, Kalaburagi, Karnataka, 585102, India  
Karnataka India  
**2)Siddarama R. Patil**  
**3)Swapna Kalyan**  
**4)Vijjalaxmi Patil**

(72)Name of Inventor :  
**1)Jayashree Agarkhed**  
**2)Siddarama R. Patil**  
**3)Swapna Kalyan**  
**4)Vijjalaxmi Patil**

(57) Abstract :

This invention illustrates the design of medication the reminder machine, including both the pill and the continuous medical tablet/powder bag reminder modules for the efficient dispensing of medicine to the elderly. This system is capable of providing continuous monitoring along with obtaining the data readings of the health condition so as to remotely notify the doctor or the caretaker about the conditions. This reduced human-based monitoring and reduces human errors in case of medicine injection and supply to the patient. The system provides real-time data and the data can only be accessed by authorized personals ensuring the safety of all the data collected. The system is made smart to function autonomously incase any alert is obtained using IoT based services. All the data regarding the medicine which needs to be provided or taken by the patient himself is automatically dispensed in a timely manner.

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941049444 A

(19) INDIA

(22) Date of filing of Application :02/12/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : THE DESIGN OF MICROSTRIP PATCH ANTENNA USING THE GEOMETRY OF GOLDEN RATIO

(51) International classification	:H01Q0009040000, H01Q0009280000, H01Q0001380000, H01Q0001220000, H01Q0003260000	(71)Name of Applicant : <b>1)SIDDARAMA R PATIL</b> Address of Applicant :PROFESSOR, ELECTRONICS AND COMMUNICATIONS ENGINEERING E&CE AND DEAN ACADEMICS, P.D.A COLLEGE OF ENGINEERING, KALABURAGI Karnataka India
(31) Priority Document No	:NA	<b>2)RAVI M YADAHALLI</b>
(32) Priority Date	:NA	<b>3)REVANASIDDAPPA KINAGI</b>
(33) Name of priority country	:NA	<b>4)JAYASHREE AGARKHED</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)SIDDARAMA R PATIL</b>
(87) International Publication No	: NA	<b>2)RAVI M YADAHALLI</b>
(61) Patent of Addition to Application	:NA	<b>3)REVANASIDDAPPA KINAGI</b>
Number	:NA	<b>4)JAYASHREE AGARKHED</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention consists of a design of microstrip patch antenna using the geometry of Golden Ratio to overcome the disadvantage of narrow impedance bandwidth disadvantage of patch antenna. The L shaped stub is attached to this antenna which results into a dual band and compact operation of antenna which can be used for wireless communications. The GSA antenna helps to give wider bandwidth with a gain of 2.3dbi and correspondingly GSAs gives dual bandwidth of operation at 5.9 and 2.4GHz respectively which may be used for ISM band applications.

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

(54) Title of the invention : SYSTEM AND METHOD FOR REMOVING MOTION ARTIFACTS AND MULTIMODALITY REGISTRATION OF MEDICAL IMAGES

<p>(51) International classification :A61B0006000000, A61B0006030000, G06T0011000000, A61B0005000000, A61B0005055000</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 : <b>1)MAHESH ENUMULA</b> Address of Applicant :FLAT NO 304, ANCO HIEGHT APARTMENTS, BEHIND GRK GARDENS, BANDLAGUDA JAGIR, HYDERABAD PIN:500086 Telangana India</p> <p>(72)Name of Inventor : <b>1)Dr. V. Usha Shree</b> <b>2)Dr. M. V. Sruthi</b> <b>3)Dr. P. Chandrasekhar Reddy</b> <b>4)DR.Soundarajan k</b> <b>5)Dr N.Murali Krishna</b> <b>6)Dr J.Pandu</b> <b>7)Dr.Saggurthi Prabhakara Rao</b> <b>8)Dr. C.Chinnapu Reddy</b> <b>9)C.Ranadheer Reddy</b> <b>10)T SYED AKHEEL</b> <b>11)P.Ramesh</b> <b>12)MAHESH ENUMULA</b></p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for eliminating motion artifacts and multimodality registration of medical images. Over the years, medical imaging has become a vital part in the clinical setting in hospitals and in research and development (R&D). Medical imaging plays a central role in the global healthcare system as it contributes to improved patient outcome and more cost-efficient healthcare in all major disease entities. In some cases medical imaging is the first step in preventing the spread of cancer through early detection and in many cases makes it possible to cure or eliminate the hazard diseases altogether. Computed Tomography (CT) imaging, Magnetic Resonance (MR) imaging, Mammography, Nuclear Medicine(NM) imaging and Ultrasound (US) imaging and X-ray imaging are all very important tools in the fight against diseases. As we realize that in today's reality the field of picture preparing is boundlessly utilized as a part of medicinal, electrical, PC and electronic spaces. Advanced image processing of PC calculations to perform picture preparing on computerized pictures. As a subcategory or field of, image processing has numerous favorable circumstances. It permits a much more extensive scope of calculations to be connected to the info information and can keep away from issues, for example, the development of commotion and signal twisting amid preparing. Since pictures are characterized more than two measurements (maybe more) advanced picture preparing might be displayed as Multidimensional frameworks. Moving organs such as heart, lung, etc in human body cause motion artifacts during the scans. This artifacts should be removed while reconstruction of the scanned data. Motion artifacts are caused by the motion of the object present in the image during the imaging sequence. This motion of the total object while sequencing the image generally results in a blurring often the motion is caused by the heart beating or the patient breathing. Both of them are not eliminated legally. Clinicians, doctors and surgeons are looking forward for new time efficient ways to observe the data. The registration of the images becomes very tedious and inaccurate for multimodality of medical images. In these cases approach of directly comparing the gray levels fails. Recent developments in technology lead us to acquire and process data more efficiently. In clinical diagnosis observation of patient<sup>TM</sup>s data and planning for future procedures on the patient is first priority of the doctors, clinicians and surgeons. The six better observations is achieved after aligning the images in correct way. Image registration is process of matching one image with another. The image can be obtained using different acquiring techniques such as MRI, CT, PET, etc. In image the spatial transform is obtained between these images. This system Removal of motion artifacts and multimodality registration of medical images presents the procedure for removing the motion artifacts and registration of the multimodal medical images. This is a technique to transform sensor<sup>TM</sup>s raw data to final compressed image. The data objects are operated on by filters that in turn may be organized into data flow. Algorithms for all the processing operations are designed based on reconstruction and registration. The main objective of the research is to implement a innovative and useful system that provides image reconstruction. Multimodality medical images are images with more than one sub region in it. For example brain MRI image has cerebral fluid, white matter, grey matter, etc. Before performing registration of these images, it is necessary to classify these sub regions from the image. The proposed method uses Particle Swarm Optimization (PSO) algorithm for image reconstruction. we proposed the Particle based back projection algorithm to remove motion artifacts caused due to the mobility of the organs and reconstruction of the image. The final stage is registration of different modal medical images. This method can be very useful in current clinical applications in medical imaging from acquiring scanned data of the patient to the registration of the reconstructed multimodality images.

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

(54) Title of the invention : A NOVEL METHOD FOR IRIS RECOGNITION USING TWO STAGE CLASSIFIER

(51) International classification	:G06K0009000000, G06K0009460000, G06T0007120000, G06K0009620000, G10L0017020000	(71)Name of Applicant : <b>1)MAHESH ENUMULA</b> Address of Applicant :Flat no 304, Anco height apartments, Behind GRK Gardens, Bandlaguda Jagir, Hyderabad. Telangana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr N.Murali Krishna</b>
(33) Name of priority country	:NA	<b>2)Dr.P.Chandrasekhar Reddy</b>
(86) International Application No	:NA	<b>3)Dr J.Pandu</b>
Filing Date	:NA	<b>4)Dr.Saggurthi Prabhakara Rao</b>
(87) International Publication No	: NA	<b>5). Dr. V. Usha Shree</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr.S.M.K.M ABBAS AHMAD</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

EYE-the primary organ of the human body, provides vision to observe the nature, identify the objects, and identify the people, without which there is no vigor to the existence and no color to life, finally being used as a tool to identify the human also. Chromatic chime in the eye, the iris, fascinated, Biometric technologies to create a most potential and robust identification and verification system designed for human identification in a number of applications. With total population of the world marking around 7.6 billion, no two irises are same™, if so it is one among 1078, makes the feature enriched iris pattern, the best among the biometric traits for authentication or identification of an individual personage. With gifted inherent protection, stability and complex structure, the features of it stood much superior to all other counter parts, like finger prints, face, voice, signature etc. The success of iris recognition system mainly depends on how accurately the iris portion is extracted from the acquired eye image, how robust the computed features are invariant to scaling and rotation, and how effectively the noise like, occlusions of eyelids, eyelashes, non uniform lighting and light reflections are removed from the image. several issues such as scalability, reliability and efficiency under challenges such variable imaging conditions in large scale iris data base. Artifacts such as occlusions, noises, image quality degradation pose a severe problem to achieve accurate recognition. Elastic deformation of radial iris texture with extreme pupil dilation is another most crucial issue to be resolved, especially for accurate recognition. Images encumbered with eye glasses, severe light reflections are throwing chaotic challenges in recognition with complexities in segmenting the iris region from the acquired eye images. Two important parameters that will decide the system™s performance are False Acceptance Rate (FAR) and False Rejection Rate (FRR). False Acceptance Rate (FAR) is the measure of probability of an individual being wrongly identified as another individual by the biometric system. False Rejection Rate (FRR) is the measure of probability of an enrolled individual not being identified by the system. For an ideal system both FAR and FRR should be zero. Most of the present iris recognition algorithms have accomplished reasonable success in attaining low false acceptance rate, but reducing false rejection rate still remained a challenge which will play crucial role in enhancing the system™s performance. This is an efficient recognition system which gives a low FRR at almost zero FAR. The optimal segmentation strategy to locate the pupil with high accuracy for noisy images, especially for the images, laden with glass specular reflections. Better recognition results were produced. The objective can be fulfilled with our active contour 23 based model which is an innovative composition of algorithms for the segmentation of iris images captured in noisy environments. In particular, the method can deal with different image sizes, colors and tones of the skin, positions of the iris in the eye, different illumination systems, and occlusions such as eyeglasses, eyelashes, and eyelids. Further a novel and optimized feature extraction strategy and the objective that fulfilled in this contribution is the usage of Radial Mean Multi Texton strategy towards iris texture representation before feature extraction and encoding with 1D Log Gabor filter. This combination helped to select and encode effective features from the extracted iris pattern. To reduce False Rejection Rate (FRR) and effect of dilation of pupil, it is stretched into recognition domain defining two stage classifier to enhance recognition rate with higher accuracy levels. To accomplish these, hamming distance measure is adapted for the first stage classification and novel Partial Space Similarity Match\_Mean Weighted Hamming Distance metric (PSSM\_MWHDM) which is very effective to counter the effect of fragile bits at iris edges is introduced for the second stage. The performance of algorithms were validated and compared with other algorithms using CASIA Version IV database. The novel corneal reflection removal strategy along with proposed active contour segmentation model produced remarkable 99.9% of accurate segmentation of iris database images, claiming best extraction time, especially for CASIA-Iris-Interval with 0.16 sec per image. Generation of effective pattern using Radial Mean Multi Textons (RMMT) and extracting features with the application of 1D Log-Gabor filter has improved the performance by reducing the FRR by 0.8% for the same FAR. Two stage classification with hamming distance and PSSM-WMHDM methodology, reduced the false rejection rate by 2.1 % compared to single stage classification at zero FAR. The experimental results are indicating the escalation of the optimal iris recognition strategy with best reduced FRR. As an intact, the innovative approaches carried over in segmentation, feature extraction and matching modules crafted the dissertation in fulfilling the objectives set, and rewarded minimized FRR without a compromise on FAR to improve the system efficiency.

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941053362 A

(19) INDIA

(22) Date of filing of Application :23/12/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : PREPARATION OF RUTILE TIO2 SOL-GEL

(51) International classification :C03C0017340000,  
C23C0018120000,  
B01J0037030000,  
B82Y0030000000,  
C23C0018310000

(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)DR. PERIYASAMY THILAKAN**

Address of Applicant :ASSOCIATE PROFESSOR CENTRE  
FOR GREEN ENERGY TECHNOLOGY MADANJEET  
SCHOOL OF GREEN ENERGY TECHNOLOGIES  
PONDICHERRY UNIVERSITY PUDUCHERRY-605014 Tamil  
Nadu India

(72)Name of Inventor :

**1)DR. PERIYASAMY THILAKAN**

**2)T. BALAGANAPATHI**

**3)M. PADMINI**

(57) Abstract :

TITLE: PREPARATION OF RUTILE TIO2 SOL-GEL • APPLICANT: DR.PERIYASAMY THILAKAN APPLICATION NO : 201941053362 DATED 23/12/2019 ABSTRACT The present invention disclose a novel, simple and cost effective process of synthesis of pure Rutile TiO2 sol-gel without any phase transition, configured to direct crystallization of Rutile TiO2 or to obtain thin films of rutile TiO2 without any need of high pressure techniques, for use in various nanostructure applications. The process of the present invention comprises of following steps; a) mixing predetermined concentration of Titanium (IV) Isopropoxide (TTIP) with DI water followed by mixing predetermined concentration of Diethanolamine and constantly stirring for predetermined time in order to promote hydrolysis reaction to form a milky white homogeneous mixture; b) dissolving predetermined concentration of Hydrochloric acid in DI water and adding drop by drop into the homogeneous mixture under stirring to form a homogeneous solution; c) dissolving predetermined concentration of PEG4000 in DI water and adding to the homogeneous solution under stirring followed by keeping under constant stirring at predetermined temperature for predetermined time to form the Rutile TiO2 sol-gel.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941053366 A

(19) INDIA

(22) Date of filing of Application :23/12/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESSING OF ZINC OXIDE (ZNO) P-N JUNCTION THERMOELECTRIC DEVICE

(51) International classification	:H01L0029786000, H01L0021020000, C23C0016400000, H01L0033280000, H01S0005042000	(71)Name of Applicant : <b>1)DR. PERIYASAMY</b> Address of Applicant :ASSOCIATE PROFESSOR CENTRE FOR GREEN ENERGY TECHNOLOGY MADANJEET SCHOOL OF GREEN ENERGY TECHNOLOGIES PONDICHERY UNIVERSITY PUDUCHERRY-605014 Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. PERIYASAMY</b>
(33) Name of priority country	:NA	<b>2)B. KANIAMUTHAN</b>
(86) International Application No	:NA	<b>3)S.VINOTH</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 :

TITLE: PROCESSING OF ZINC OXIDE (ZnO) P-N JUNCTION THERMOELECTRIC DEVICE • APPLICANT: DR.PERIYASAMY THILAKAN APPLICATION NUMBER : 201941053366 DATED 23/12/2019 ABSTRACT The present invention discloses a process of preparation of extrinsically doped n-type ZnO:Al and p-type ZnO:N and fabrication in to P-N junction thermoelectric device employing modified pulsed spray pyrolysis. The process of the present invention comprises of following steps; a. deposition of extrinsically doped p-type ZnO : N thin films without the contribution of oxygen vacancy defects using Zinc acetate di-hydrate source (Zn(Ac)2.2H2O) and N2 carrier gas by pulsed spray pyrolysis; b. deposition of extrinsically doped n-type ZnO : Al thin films without the contribution of oxygen vacancy defects using Zinc acetate di-hydrate source (Zn(Ac)2.2H2O) with AlCl3 and O2 carrier gas by pulsed spray pyrolysis; c. fabrication of P-N ZnO homojunction thermoelectric device by pre-optimized deposition conditions of p-ZnO:N and n-ZnO: Al employing modified pulsed spray pyrolysis.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941054297 A

(19) INDIA

(22) Date of filing of Application :28/12/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SELF-RELIABILITY BASED WEIGHTED SOFT-BIT-FLIPPING ALGORITHM FOR DECODING EG-LDPC CODES

(51) International classification	:H03M0013110000, H03M0013000000, H03M0013370000, H03M0013390000, H04L0001000000	(71)Name of Applicant : <b>1)JYOTHI. CHINNA BABU</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, AITS, RAJAMPET Andhra Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)C.Ranadheer Reddy</b>
(33) Name of priority country	:NA	<b>2)Prof. M. N GIRI PRASAD</b>
(86) International Application No	:NA	<b>3)Dr. C.Chinnapu Reddy</b>
Filing Date	:NA	<b>4)P. Syamala Devi</b>
(87) International Publication No	: NA	<b>5)M. Hanumanthu</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr. V. Usha Shree</b>
Filing Date	:NA	<b>7)JYOTHI. CHINNA BABU</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The conventional algorithms such as Soft-Bit Flipping (SBF) algorithm, Majority Logic Decoder/Detector (MLDD) algorithm, Sequential Peeling Decoder (SPD) algorithm, Parallel Peeling Decoder (PPD) algorithm, Belief Propagation Decoder (BPD) attain the satisfactory decoding performance in terms of error correction and detection. For the standard conventional algorithms, a lot of multiplicative and logarithmic computations are required for the check node computation. Hence, the decoding latency, hardware complexity and power consumptions of the standard conventional algorithms are high due to their complex computation process. The proposed Self-Reliability based Weighted Soft-Bit-flipping Decoder is used to overcome such drawbacks of conventional algorithms. This research has been focused on the SRWSBF algorithm to reduce decoding latency, hardware complexity and power consumption as well as increasing the performance. The hardware complication of the SRWSBF algorithm can be considerably minimized by replacing difficult computations of the check nodes with simple summations and comparison operations. Simple Max likelihood test process is also considered at the variable nodes and it is computed at each variable node, which significantly reduces the latency and power consumption. Considering the above factors, the proposed work uses SRWSBF algorithm and focused on low complexity design of LDPC hardware architecture.

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

(54) Title of the invention : A NOVEL 4 TIER ARCHITECTURE FOR ERROR APPROXIMATION IN VLSI CIRCUITS

(51) International classification :H03H0017060000,  
H03H0017020000,  
G06F0007544000,  
G06F0007570000,  
G06F0007499000

(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)GADDAM RENUKA**  
Address of Applicant :PhD Scholar, c/o GADDAM  
UMADEVI, H.NO1166/1,BHEEMARAM, HANAMKONDA,  
WARANGAL, TELANGANA, 506015 Telangana India  
**2)Dr. V. Usha Shree**  
**3)Dr.P.Chandrasekhar Reddy**

(72)Name of Inventor :  
**1)GADDAM RENUKA**  
**2)Dr. V. Usha Shree**  
**3)Dr.P.Chandrasekhar Reddy**

(57) Abstract :

The signal processing algorithms such as Discrete wavelet transform (DWT), Discrete wavelet packet transform (DWPT), finite impulse response (FIR) filtering remains difficult to integrate more functions due to the price, size and power consumption. Therefore, developing low-complexity hardware efficient arithmetic design for healthcare application remains a challenge. DSP algorithms are implemented in dedicated hardware system to meet space-time requirement of resource constrained applications such as repetitive multiply-accumulate operations, computational symmetry and redundancy. Efficient implementation of multiplication operations is a key issue in digital filter design of DSP applications. Separate approach is used for signed and unsigned multiplication. Approximate multiplication and addition operation provide small area and leakage power due to saving of storage data-bits. Approximation computation methodology produces dynamic power reduction due to memory access saving. Approximate computation consider small percentage of accuracy loss that does not affect much the overall application specific performance in digital arithmetic hardware design. Delay and power consumption is considered to be major issue in ripple carry adder (RCA) design is required to study the effectiveness of the arithmetic coefficient approximation method on DWPT computation. The bit level optimization of full-width adder tree for multiple constant multiplications (MCM) is given to taking the advantage of shifting operation. The multiplier adder unit of DWPT is replaced by ShifterAdder -unit to decrease the complexity of parallel structures. Shift add register (SAR)approximate arithmetic architecture designs are proposed for low complexity multiplier less design that can be an substitute for existing multiplier based designs for realization of multilevel DWP The proposed shift-add register (SAR) and approximate arithmetic architecture designs use a fixed-bias for error-compensation. The fixed-bias compensates truncation error near accurately for input data-vector with more pixel variation while overcompensate the truncation error for input data-vector with small pixel variation. The present invention provides a solution for the error approximation by providing a novel and efficient four level/tier architecture.

No. of Pages : 17 No. of Claims : 3



(54) Title of the invention : A NOVEL OPTIMIZATION TECHNIQUE TO LINEAR DISCRIMINANT REGRESSION FOR FACE RECOGNITION

<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, G06K0009620000, A61B0005000000, G06F0016245800, G16H0050200000</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><b>1)DR. T SYED AKHEEL</b> Address of Applicant :13-2-478 Ramachadra nagar Anantapur A.P INDIA 515001 Andhra Pradesh India</p> <p><b>2)Dr. V. Usha Shree</b></p> <p><b>3)Dr.P.Chandrasekhar Reddy</b></p> <p><b>4)Dr. M. V. Sruthi</b></p> <p><b>5)Dr.Sumagna Patnaik</b></p> <p><b>6)Dr.Saggurthi Prabhakara Rao</b></p> <p><b>7)Dr.S.M.K.M ABBAS AHMAD</b></p> <p><b>8)Dr.C.Chinnapu Reddy</b></p> <p><b>9)C.Ranadheer Reddy</b></p> <p><b>10)S.HEMANTH CHOWDARY</b></p> <p><b>11)E. MAHESH</b></p> <p><b>12)Dr.Shaik Fairouz</b></p> <p><b>13)Saggurthi Ramesh Babu</b></p> <p>(72)Name of Inventor :</p> <p><b>1)DR. T SYED AKHEEL</b></p> <p><b>2)Dr. V. Usha Shree</b></p> <p><b>3)Dr.P.Chandrasekhar Reddy</b></p> <p><b>4)Dr. M. V. Sruthi</b></p> <p><b>5)Dr.Sumagna Patnaik</b></p> <p><b>6)Dr.Saggurthi Prabhakara Rao</b></p> <p><b>7)Dr.S.M.K.M ABBAS AHMAD</b></p> <p><b>8)Dr.C.Chinnapu Reddy</b></p> <p><b>9)C.Ranadheer Reddy</b></p> <p><b>10)S.HEMANTH CHOWDARY</b></p> <p><b>11)E. MAHESH</b></p> <p><b>12)Dr.Shaik Fairouz</b></p> <p><b>13)Saggurthi Ramesh Babu</b></p>
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(57) Abstract :

To improve the robustness of the linear regression model number of improvements have been made working on the different databases, the main aim of this invention is to show how an optimization algorithms improves the efficiency of linear discriminant regression methods and performance is evaluated, The features are extracted using Active Appearance Model then the classification is done via linear collaborative Discriminant regression classification (LCDRC) model Proposed in prior art. In the LCDRC classifier, the most important evaluation is projection matrix that might get multiplied to the features while classification. In order to select the optimal projection matrix, this paper proposes a improved whale optimization technique, which is the Enhanced form of Whale Optimization Algorithm (WOA). The proposed face recognition model compares its performance over other conventional methods by varying the regularization constant value from 0.5 to 2.5 and performance is taken in terms of measures like Accuracy, Specificity, Sensitivity, Precision, Negative Predictive Value (NPV), F1Score and Matthews Correlation Coefficient (MCC), False positive rate (FPR), False negative rate (FNR) and False Discovery Rate (FDR),and the efficiency by varying the regularization constant and the effectiveness of this model is proven.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041006939 A

(19) INDIA

(22) Date of filing of Application :18/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR BIOMETRIC AUTHENTICATION OF ENTIRE ENTERPRISE APPLICATIONS

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71) <b>Name of Applicant :</b> <b>1)Precision Biometric India Private Limited</b> Address of Applicant :No.22, 1st Floor, Habibullah Road, T. Nagar, Chennai Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Ravindran Ramamurthy</b>
(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 :

As attached

No. of Pages : 32 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041021116 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PERSONAL SAFETY DEVICE FOR WOMEN AND CHILD

(51) International classification	:G08B0021020000, F41H0013000000, F41H0009100000, A61F0005455000, B62J0027000000	(71)Name of Applicant : <b>1)ADI VENKATA LINGESWARA SASTRI MELLACHERUVU</b> Address of Applicant :4114, Mapleton Appaswamy apartments, velachery, tambaram road, pallikaranai, Chennai. Tamil Nadu India <b>2)PREETHI SASTRI MELLACHERUVU 3)ADIVENKATA NAGASAIVESWARA GOLLAPUDI</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)ADI VENKATA LINGESWARA SASTRI MELLACHERUVU 2)PREETHI SASTRI MELLACHERUVU 3)ADIVENKATA NAGASAIVESWARA GOLLAPUDI</b>
(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 is related to a personal protection device, particularly a device for women and child safety. The device is compact, handled by women and children having pluralities of input notches and sensorial means are arranged in such a way to protect women and child by expressing or exposing pluralities of signals to the nearby locations like law and order, police stations and far locations to inform the danger to the people, parents, friends or relatives, etc. One of the main embodiments in the invention is the protection device is made with self-protecting by camouflaging the device itself from any destruction means and device protects women and children. Another important embodiment in the invention is to protect the women or child or both by getting inputs from neuro reader means present in the body (especially in the fabric they wear) of the women and child thereby the neuro stress is captured and signaled to the rescue team which includes police, parents, friends, relatives, etc. The device also includes GSM/GPS modules, hooter alarm, alcohol sensors to detect the child/woman in the inebriated situation and capable of sensing the alcohol sensation nearing to the women/child, like a drunken person, drunken drivers, nearby alcohol bars or shops, etc. Another embodiment in the invention is that the thermal mapping sensor will sense the variations in the body heat and accordingly alerts the police, parents, friends, relatives, etc. and the device has a means to produce an electric shock to defend against the attacker who troubles the women or children. Refer Fig 7.

No. of Pages : 46 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041027290 A

(19) INDIA

(22) Date of filing of Application :26/06/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MECHANISM FOR VARYING MOMENT OF INERTIA OF A ROTATING STRUCTURE

(51) International classification :F41G0001380000,  
F04D0029520000,  
F04D0029020000,  
G01L0005220000,  
H05K0005020000

(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)SRM Institute of Science and Technology**

Address of Applicant :Kattankulathur, Chennai-603203, Tamil Nadu, India Tamil Nadu India

(72)Name of Inventor :

**1)SAMAK, Chinmay Vilas**

**2)SAMAK, Tanmay Vilas**

**3)Sivanathan Kandhasamy**

(57) Abstract :

The present invention relates to the field of mechanisms for varying moment of inertia of a rotating structure. The mechanism (100) comprises a rim (2), a disc (4), a first ring (6), a second ring (10), a plurality of blades (8), and an actuation unit (14). The disc (4) and the first ring (6) are configured to be fastened to the inner surface of the rim (2). The first ring (6) and the second ring (10) respectively have a first set of linear slots (6A) and second set of arched slots (10A) inclined with its radii in a spaced apart configuration. Each blade (8) has protrusions (8A, 8B) extending therefrom to engage with slots (6A, 10A). The actuation unit (14) is coupled to the second ring (10) to drive the second ring (10) relative to the rotating structure, thereby allowing variation in the moment of inertia of the rotating structure.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041039082 A

(19) INDIA

(22) Date of filing of Application :10/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A DEVICE AND METHOD FOR CONVERTING SUNLIGHT INTO HEAT ENERGY USING SEMICONDUCTING MATERIALS IMMERSSED IN A STABLE ORGANIC SOLVENT FOR ELECTRICITY GENERATION •

(51) International classification	:H02K0007180000, F24S0020200000, F24S0010750000, F01C0013000000, F03G0007000000	(71)Name of Applicant : <b>1)INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS (ARCI)</b> Address of Applicant :BALAPUR POST, ON THE WAY TO RCI, HYDERABAD, 500005, TELANGANA, INDIA Telangana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. IBRAM GANESH</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A DEVICE AND METHOD FOR CONVERTING SUNLIGHT INTO HEAT ENERGY USING SEMICONDUCTING MATERIALS IMMERSSED IN A STABLE ORGANIC SOLVENT FOR ELECTRICITY GENERATION • comprises of a device consisting semiconducting material(s) such as, amorphous or crystalline silicon, MgB<sub>2</sub>, doped-TiO<sub>2</sub>, etc., immersed in an electrochemically stable organic solvent such as, -butyrolactone (termed as non-working fluid (NWF)) generated heat energy upon exposure to sunlight with a sunlight-to-heat energy conversion efficiency of >70%. The in situ generated heat energy from sunlight is captured into NWF, and is transferred to another low-boiling point organic solvent such as, dichloromethane, hydro-fluoro-ether, etc. (termed as a working fluid (WF)) to create pressure up to 5 bar. This pressure is then utilized to rotate an electric generator (or dynamo) by connecting it to a device that turns heat energy into a rotational mechanical energy to produce electricity. The measured sunlight-to-electricity conversion efficiency has been found to be >25%. Along with electricity generation, heat energy in the form of hot-water with 50C was also generated by incorporating a heat exchanger in the device.

No. of Pages : 41 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041039255 A

(19) INDIA

(22) Date of filing of Application :11/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A FAULT LOCATION DETECTION METHOD OF WIRING HARNESS DURING PRODUCTION OF ELECTRIC BUS

(51) International classification	:G01R0031080000, G01R0031120000, G01R0031020000, G01R0031000000, H01B0013012000	(71) <b>Name of Applicant :</b> <b>1)Koukutla Suhit Reddy</b> Address of Applicant :Student, 6-3-347/12/a/11, Dwarakapuri Colony, Punjagutta, Hyderabad Telangana 500 082 Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Koukutla Suhit Reddy</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

**TITLE: A FAULT LOCATION DETECTION METHOD OF WIRING HARNESS DURING PRODUCTION OF ELECTRIC BUS.**  
A fault location detection method of wiring harness using partial discharge test for use during production of electric bus is disclosed. The fault location detection method comprising the steps of selecting a faulty battery cable for conduction of partial discharge test to be performed, performing a partial discharge test which further comprises three sub sets combination including DC test, surge test and arc reflection tests, connecting the battery cable with negative polarity crocodile connector to the core and the positive polarity crocodile connector to the insulation providing a bombardment of the partial discharge which gives out a pop sound continuously at the location of the fault, during the surge test and generating sound using the digiphone which helps to find the fault location and displaying in the form of a graph which indicates the possible location of the fault at the length of the cable where possible damage exists.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041040393 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : DEVELOPMENT OF IOT AND GSM BASED ALERTING HEALTH MONITORING SYSTEM

(51) International classification :A61B5/0022  
(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)Pratyush Kumar Panda**

Address of Applicant :School of Electrical and Electronics Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064, India. Karnataka India

**2)Vaishnavi S**

**3)Adithya Ballaji**

**4)Sujo Oommen**

**5)Dr. Rajashekar P Mandi**

**6)Manish Bharat**

**7)Raghu C N**

(72)Name of Inventor :

**1)Pratyush Kumar Panda**

**2)Vaishnavi S**

**3)Adithya Ballaji**

**4)Sujo Oommen**

**5)Dr. Rajashekar P Mandi**

**6)Manish Bharat**

**7)Raghu C N**

(57) Abstract :

Healthcare industry has been on the verge of a complete changeover with automation taking over the conventional manual methods. Human interventions are being replaced by automated technology which are proving to be more precise, efficient and flexible. Medical procedures and shortage of medical facilities along with staff has raised issues regarding the monitoring of health conditions, in and out of the patients. The proposed work presents an innovative and flexible method to overcome the present medical irregularities along with round the clock monitoring at the comfort of the patient. The present technology uses various electrical and electronics-based sensor technology accompanied by wireless technology to transmit the health monitoring data and various other health-related parameters over IoT for further analysis and communication. This means that the medical experts now do not have the requirement to be physically present for scheduled checkups and can treat the potential health care seekers remotely, which leads to the fact that the experts can now be given the power to influence a rather much wider base regardless of their geographical location. Perks such as lesser costs for routine medical checkups, lesser time spent in travelling and standing in long queues of hospitals and on the contrary doctors can get much required time for patients really requiring a physical presence of the same. As a result of recent COVID-19 chaos, where social distancing has to be maintained and transportation must be used only if extremely necessary, a system as such helps in attaining the patients while quarantining them inside their home to prevent the spread of virus even just 5 meters outside the door step. The parameters read by the system directly gives the indications of any health problem, be it major or minor, because almost all the variety of health issues, diseases or irregular functionality of any vital organ are always linked directly or indirectly with the temperature, blood pressure, number of heart beats or the oxygen concentration in the blood of the patient. This ultimately leads to reduction in both mental stress and financial strain of the patient and family members while being able to live in the comfort of their home. The fact that this system measures live parameters; the analyzed data is immediately available to both sides of the parties. The proposed system has all the build in plug & play facilities and can effortlessly communicate all the data via the IoT.

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

(54) Title of the invention : PHARMACEUTICAL FORMULATIONS OF ELECTRO-RESPONSIVE SMART HYDROGEL FOR TRANSDERMAL DRUG DELIVERY

(51) International classification	:A61K 9/70	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. Raghavendra V. Kulkarni</b>
(32) Priority Date	:NA	Address of Applicant :BLDEA™s SSM College of Pharmacy
(33) Name of priority country	:NA	& Research Centre, Vijayapur - 586 103, Karnataka, India.
(86) International Application No	:NA	Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. Raghavendra V. Kulkarni</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Mrs. Sudha B. Patil</b>
Filing Date	:NA	<b>3)Dr. Krishnamachari G. Akamanchi</b>
(62) Divisional to Application Number	:NA	<b>4)Dr. Kusal. K. Das</b>
Filing Date	:NA	

(57) Abstract :

The present invention relates to the development of electro-responsive transdermal delivery systems (ETDDS) with smart hydrogel for transdermal delivery of the drugs. It particularly relates to the pharmaceutical formulations of electro-responsive smart hydrogel for transdermal drug delivery. More particularly it relates to the synthesis of electro-responsive polyacrylamide-grafted-inulin (PAAm-g-INU) copolymer by free radical polymerization under the nitrogen atmosphere and then development of ETDDS by utilizing synthesized PAAm-g-INU. The membrane-controlled ETDDS were developed utilizing drug-loaded PAAm-g-INU hydrogel as the reservoir and cross-linked inulin-poly(vinyl alcohol) films as rate controlling membranes (RCM). It specifically relates to the development of membrane-controlled ETDDS utilizing drug-loaded PAAm-g-INU hydrogel as the reservoir and cross-linked inulin-poly(vinyl alcohol) films as RCMs for the transdermal delivery of rivastigmine tartarate at the requisite amount, requisite time and at requisite site in the human body that reduces the adverse effects, dose, and improves drug efficiency and patient compliance. The study revealed that the novel electrically responsive PAAm-g-INU is a useful copolymer for transdermal drug delivery triggered by an electric stimulus for on-demand drug release.

No. of Pages : 36 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041040934 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : ICIT-IRRIGATION SYSTEM: INTELLIGENT IRRIGATION SYSTEM BASED ON CLOUD COMPUTING USING IOT TECHNOLOGY.

(51) International classification	:A01G 25/16	(71)Name of Applicant : <b>1)Dr. JYOTI METAN (ASSISTANT PROFESSOR)</b> Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING, ACS COLLEGE OF ENGINEERING, BENGALURU, KARNATAKA, INDIA-560074. E-mail: jyotimetan@gmail.com Karnataka India
(31) Priority Document No	:NA	<b>2)Dr. PRASAD A Y (ASSISTANT PROFESSOR)</b>
(32) Priority Date	:NA	<b>3)Ms. SWETHA P (ASSISTANT PROFESSOR)</b>
(33) Name of priority country	:NA	<b>4)Ms. ANITHA K (ASSISTANT PROFESSOR)</b>
(86) International Application No	:NA	<b>5)Ms. H M MANJULA (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>6)MADHURA K (ASSISTANT PROFESSOR)</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Dr. JYOTI METAN (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>2)Dr. PRASAD A Y (ASSISTANT PROFESSOR)</b>
(62) Divisional to Application Number	:NA	<b>3)Ms. SWETHA P (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>4)Ms. ANITHA K (ASSISTANT PROFESSOR)</b>
		<b>5)Ms. H M MANJULA (ASSISTANT PROFESSOR)</b>
		<b>6)MADHURA K (ASSISTANT PROFESSOR)</b>

(57) Abstract :

ABSTRACT Our invention ICIT- Irrigation System is an Internet of Things intelligent irrigation system based on global cloud computing and also the system comprises an intelligent irrigation cloud service platform. The invented technology is an intelligent irrigation cloud data center, an Internet of Things terminal management controller, an irrigation device, the irrigation device, irrigation method/ process and a sensor are both connected with the Internet of Things terminal management controller, the Internet of Things terminal management controller is connected with the intelligent irrigation cloud data center via a wireless network. The invented technology is a user logs in the intelligent irrigation cloud service platform for obtaining service via the network, the intelligent irrigation cloud service platform is deployed in the intelligent irrigation cloud data center and the intelligent irrigation cloud service platform provides service for the user. The invented technology is a conception is novel, advanced cloud computing, the Internet of Things, big data, mobile application, and the artificial intelligence technology are employed, the system is simple, easy, and convenient, the timeliness is good, the networking is convenient, the reliability is high, the transmission rate is fast. The invented technology and the advanced Internet of Things intelligent irrigation system based on cloud computing is provided for the application and promotion of the technologies of cloud computing and Internet of Things in the water conservancy industry.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041040969 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A MULTIMETAL ENABLED SANITIZATION SYSTEM

(51) International classification :A61L2/183  
(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)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

(72)Name of Inventor :

**1)Phani Kumar Pullela**

**2)Srinivas Reddy Mungara**

**3)Chidhananda Ranyam Srinivas**

**4)Kodandapani Depa**

**5)Sharath Kumar Devaraju**

**6)Chandrappa Muneppa**

**7)Koushik Nagaraj**

**8)Ramesha Gollahalli Narayanappa**

**9)Nithesh Kumar Reddy D**

**10)Anindita Ghosh**

**11)Srinivas Madhu Srinivas**

**12)Venkatesh Murthy Anand**

**13)Chethan Sundaresh**

(57) Abstract :

A sanitization system with a chamber providing a user with an instant sanitization of article and protection post usage. The sanitization system includes a chamber to place article, a light source, an alloy comprising multimetals, placed in close proximity to the light source and the article is placed at a point in chamber where the light from the said light source falls on the article. The light falls on the alloy or the multimetal system and the vapours then generated are deposited on the article along with the light source enabled instant sanitization of the article. The trace depositions of certain metals on surface of article allows sanitization post exposure to the light and keeps the article protected from bacterial, viral, microbial, infectious after light based sanitization. Post COVID 19 era this multimetal enabled sanitization system will have use for post sanitization protection for keys, wallet, lock, cloth, cloth diapers sanitization clothing, ID cards, children toys, milk bottle used for feeding children etc.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041120 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATED AND INTEGRATED MOBILE APP FOR HANDLING ROAD ACCIDENT AND EMERGENCY SITUATION SMARTLY

<p>(51) International classification :B60Q1/30</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><b>1)S.Deivasigamani</b> Address of Applicant :Senior Lecturer, Faculty of Engineering and Computer Technology, AIMST University, 08100 Jalan Semeling-Bedong, Kedah Darul Aman, Malaysia. +60103735611 deivasigamani@aimst.edu.my Tamil Nadu India</p> <p><b>2)Dr.B.Annapurna</b></p> <p><b>3)Raushan Kumar Singh</b></p> <p><b>4)Dr.G.Devadasu</b></p> <p><b>5)Dr.S.Vijayalakshmi</b></p> <p><b>6)Dr.C.Thanavathi</b></p> <p><b>7)Dr.UdaraYedukondalu</b></p> <p><b>8)Dr. I. D. Soubache</b></p> <p><b>9)Dr. H. Sudheer</b></p> <p><b>10)Dr. Capt. K. Sujatha</b></p> <p><b>11)Er. S. John Pimo</b></p> <p>(72)Name of Inventor :</p> <p><b>1)S.Deivasigamani</b></p> <p><b>2)Dr.B.Annapurna</b></p> <p><b>3)Raushan Kumar Singh</b></p> <p><b>4)Dr.G.Devadasu</b></p> <p><b>5)Dr.S.Vijayalakshmi</b></p> <p><b>6)Dr.C.Thanavathi</b></p> <p><b>7)Dr.UdaraYedukondalu</b></p> <p><b>8)Dr. I. D. Soubache</b></p> <p><b>9)Dr. H. Sudheer</b></p> <p><b>10)Dr. Capt. K. Sujatha</b></p> <p><b>11)Er. S. John Pimo</b></p>
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(57) Abstract :

AN AUTOMATED AND INTEGRATED MOBILE APP FOR HANDLING ROAD ACCIDENT AND EMERGENCY SITUATION SMARTLY ABSTRACT OF THE INVENTION Road transport is the primary mode of transport in India and so many accidents happens every day. Ambulance services are available all over the country for earlier diagnosis. Due to unavoidable circumstances in the present system, the people may lead to death before going for the first aid. This issue can be resolved by introducing an Integrated and Smart Mobile App which alarms the respective service provider as soon as possible and hence saves the human life. By means of using this App, any user can notify the nearby ambulance and hospital directly without an intermediate service provider. It eliminates the third party completely to minimize the ambulance's time in reaching the accident zone. Further it also verifies the truthiness of incident through the accident's zone image/video given by the user. Blood donors list with their name, address, phone number and their blood group is available to handle the patient's critical situations.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041250 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : ARTIFICIAL NEURAL NETWORK BASED LOW COST AUTONOMOUS MOBILE ROBOT USING WIRELESS SENSOR NETWORK

(51) International classification :H04L12/282  
(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)Dr. C. Subba Rami Reddy**

Address of Applicant :Professor in EEE Department B V Raju  
Institute of Technology Vishnupur Narsapur, Medak Telangana  
India 502313 Telangana India

**2)Dr. M. Deivakani**

**3)Dr.J. Booma**

**4)Banothu Rakesh**

**5)Dr K P Uma**

**6)Dr K Anuradha**

**7)Dr R Poornima**

**8)Dr K Kavithamani**

**9)B Kowsalya**

**10)M Manimegalai**

(72)Name of Inventor :

**1)Dr. C. Subba Rami Reddy**

**2)Dr. M. Deivakani**

**3)Dr.J. Booma**

**4)Banothu Rakesh**

**5)Dr K P Uma**

**6)Dr K Anuradha**

**7)Dr R Poornima**

**8)Dr K Kavithamani**

**9)B Kowsalya**

**10)M Manimegalai**

(57) Abstract :

Artificial Intelligence is an emerging technology for the future networking and computing operations. This invention focuses on designing low cost autonomous mobile robot using wireless sensor network applicable for monitoring agriculture from remote location. Several challenges are posed by agricultural monitoring which is one of the essential application using wireless sensor networks based on Artificial Intelligence due to dynamically changing environment. Also sensor nodes required are more in number due to vast area in agricultural applications, hence introducing mobility reduces number of nodes required thereby reducing overall cost of the system. In this invention, autonomous mobile robot is proposed incorporating both master robot and slave robots using wireless sensor network that are connected via NRF protocol for achieving reliability in data sharing. Master robot collects the data from slave robots and transmits it to IoT server where the data includes environmental parameters such as temperature, humidity, moisture, detection of weed etc. Obstacle detection during navigation is detected by ultrasonic sensor and the weed detection is based on artificial neural networks and texture feature analysis.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041284 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PROCESS AND METHOD OF FLOCK ENGINE WITH BLOCKCHAIN AUDITING

(51) International classification :G06Q10/0637  
(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)SRIDHAR SESHADRI**  
Address of Applicant :Spotflock Technologies, Plot no.20, 3rd  
Floor, Image Gardens Road, Silicon Valley, Madhapur,  
Hyderabad - 500081, Telanagana, India Telangana India  
**2)LEGALA VIJAYANAND REDDY**  
(72)Name of Inventor :  
**1)LEGALA VIJAYANAND REDDY**  
**2)SRIDHAR SESHADRI**

(57) Abstract :

An approach is provided for flock recommendation for people and activities. Flock can themselves either be people or activities. The system takes input from the social accounts associated with the person, and a personality test filled in by the user, activities data from multiple third party sources and recommends them with flocks (either persons for a particular activity or activities for a group of people).It also stores an encrypted combination of user and evidence as transaction in the block chain for every recommendation done for auditing purposes. The ranking module in one embodiment, takes the result set from the recommendation module, ranks them based on the user<sup>TM</sup>s preferences. It considers a lot of factors including the weightages of the edges in the knowledge graph and the user info to rank these recommendation result set and finally returns them with rank score.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041293 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN AUTOMATIC MULTI-FUNCTIONAL LIFE RESCUE FLOOD HOUSE

(51) International classification	:B63C9/06	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Ms. VISHALINI N C
(32) Priority Date	:NA	Address of Applicant :DELHI SCHOOL OF EXCELLENCE,
(33) Name of priority country	:NA	ATTAPUR, HYDERABAD, TELANGANA, INDIA
(86) International Application No	:NA	Telangana
Filing Date	:NA	India
(87) International Publication No	: NA	2)DR. M NARESH KUMAR
(61) Patent of Addition to Application Number	:NA	3)DR. R CHITRA KALA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)DR. R CHITRA KALA
Filing Date	:NA	2)DR. M NARESH KUMAR
		3)Ms. VISHALINI N C

(57) Abstract :

The invention relates to a device or system which floats in water and is used to keep one or more person from drowning during floods. The device or system automatically pops up in gear. In an embodiment the invention is an automatic multi-functional life rescue flood house which includes three regions (first, second and third). The first, the second and the third region are separated by an air fill or gap, and each region including of two layer air survival casing, a first layer (L1) and a second layer (L2) equipped with gas generating capability, and the surface are coated with flood material and metals to manage heavy load. A cabin encapsulated by the third region of the housing, the cabin having a lower area and an upper area. The lower area of the cabin includes a plurality of seats for the passengers with respective seat belt for the body and for legs. The upper area of the cabin includes a zipper positioned at the centre, which is water resistant paste as a cover and has a functionality to open and close on both side to provide access to the cabin for the passengers.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041304 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL APPROACH FOR CLASS RECORDING & BLACKBOARD CLEANING SYSTEM AND METHODS THEREOF

(51) International classification :G09B5/06  
(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)Dr Ranga Swamy Sirisati**

Address of Applicant :Associate Professor , CSE , Vignan's institute of management and technology for women Ghatkesar. Telangana India

**2)Dr.A. Obulesu**

**3)VEENA R S**

**4)Dr. Parashuram Baraki**

**5)Mr. Malatesh Kamatar**

**6)Mr. Prashant K**

**7)Chillara Anil Kumar**

**8)Mr. Vinod B R**

**9)Mrs. Shobha R**

**10)Dr.Piyush Kumar Pareek**

(72)Name of Inventor :

**1)Dr Ranga Swamy Sirisati**

**2)Dr.A. Obulesu**

**3)VEENA R S**

**4)Dr. Parashuram Baraki**

**5)Mr. Malatesh Kamatar**

**6)Mr. Prashant K**

**7)Chillara Anil Kumar**

**8)Mr. Vinod B R**

**9)Mrs. Shobha R**

**10)Dr.Piyush Kumar Pareek**

(57) Abstract :

Title: Novel Approach for Class Recording & Blackboard cleaning System and Methods thereof ABSTRACT The invention discloses a Class recording system and Black board erasing system capable of capturing the class lecture notes from the board , identifying the absentees in the class & sending video of the class lecture only to the absentees students , with an added feature of erasing the board with a three layer cleaning system with dry wash , wet wash and air wash in order to ensure dust free environment in the class and ensuring students who were absent to learn from home for the classes missed online , which will not only ensure improvement in learning but also ensure a dust free environment in the class to avoid dust allergy .

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041346 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NEW MODEL FOR INVESTIGATION OF MARINE WORLD USING OPTICAL SIMULATION EXTENDED DEPTH FIELD PLATFORM

(51) International classification	:G01S17/89	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mrs.A Chrispin Jiji</b>
(32) Priority Date	:NA	Address of Applicant :Assistant Professor Department of ECE
(33) Name of priority country	:NA	The Oxford College of Engineering Bangalore - 560068
(86) International Application No	:NA	Karnataka India
Filing Date	:NA	<b>2)Dr. Nagaraj Ramrao</b>
(87) International Publication No	: NA	<b>3)Dr. Vivek Maik</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Mrs.A Chrispin Jiji</b>
(62) Divisional to Application Number	:NA	<b>2)Dr. Nagaraj Ramrao</b>
Filing Date	:NA	<b>3)Dr. Vivek Maik</b>

(57) Abstract :

Underwater imaging plays an important part for exploring and investigating marine world, but frequently undergo severe quality degradation due to optical behaviour of beam in water. It is very important for understanding optical behaviour of imaging schemes under water and need for processing after capture which is main theme explored through proposed work. Existing state-of-the-art approaches for enhancement and restoration of underwater descriptions have several drawbacks and often meant to work with descriptions captured in air medium. To deal with under water images we need to understand and customize the blur degradation or Point Spread Function (PSF) which will then help us achieving better restoration and enhancement results by underwater images. To compute PSF, need more time for estimation and it is very difficult. To perform this, camera is required and this lead be expensive and most importantly the distance among camera and object is limited. In order to overcome these problems, an efficient EDOF platform on CodeV is invented to mimic the imaging conditions. In this invention lenses are in-built, and not essential to buy the camera for analyzing the lens and recovering the scene. Estimation of PSF in CodeV takes less time and inexpensive so the analysis will be efficient and effective. This function can be used for further processing. This invention needs neither expensive optical devices nor composite information about underwater condition. An optical imaging EDOF platform on CodeV to generate a new under water extended depth of field PSF model matrix. PSF generated by CodeV optical imaging software more accurately depicted under water PSF compared to Gaussian or Uniform distribution functions. The new Extended depth PSF model is to give a more reliable, efficient, effective and speedy process than existing technique which uses image transmission theory to analyses and measure blur (PSF), which is slow, time-consuming.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041349 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : MACHINE LEARNING CONSTITUTED SCREENING AND DETECTION OF NUTRIENT DEFICIENCIES IN LEAVES

<p>(51) International classification :A61B5/0496</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><b>1)Dr. K.S. ARCHANA</b> Address of Applicant :Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies (VISTAS), Chennai Tamil Nadu India</p> <p><b>2)Dr. B. SIVAKUMAR</b></p> <p><b>3)Dr. M. KATHIRAVAN</b></p> <p><b>4)Ms. P SHEELA GOWR</b></p> <p><b>5)Dr. M. LATHA</b></p> <p><b>6)Dr. S. SRIDEVI</b></p> <p><b>7)Dr. M. KANCHANA</b></p> <p><b>8)Dr. PRIYADARSINI KARTHIK</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. K.S. ARCHANA</b></p> <p><b>2)Dr. B. SIVAKUMAR</b></p> <p><b>3)Dr. M. KATHIRAVAN</b></p> <p><b>4)Ms. P SHEELA GOWR</b></p> <p><b>5)Dr. M. LATHA</b></p> <p><b>6)Dr. S. SRIDEVI</b></p> <p><b>7)Dr. M. KANCHANA</b></p> <p><b>8)Dr. PRIYADARSINI KARTHIK</b></p>
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(57) Abstract :

The present invention herein relates to a vision-based agricultural instrumentation system, particularly an efficient system of screening and detection of nutrient deficiencies in plant accurately, in real-time; more particularly better and improved screening and detection of nutrient deficiencies by analyzing considering both texture and color of leaves acquired using an autonomous camera sensor network [100] system and analyzed employing cloud supported machine learning algorithm, comprising: a plurality of wireless protocol built-in microcontroller, a plurality of battery device and a plurality of memory device. The pre-processed imaging data by involving image acquisition system [200] forwarded to the said remote internet cloud server [300] where the said machine learning algorithm installed through which feature extraction process completed followed by classification mechanisms. The resultant classification resultant data forwarded to the said mobile phone device [400] to display classified nutrient deficient data information.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041351 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : RDAH- HEALTH NOTIFICATION: IOT BASED HEALTH NOTIFICATION AND REAL TIME DOCTOR AVAILABILITY CHECKING IN HOSPITAL USING MACHINE LEARNING.

(51) International classification	:G06N 20/00	(71)Name of Applicant : <b>1)Dr. BABBURU KIRANMAI (PROFESSOR)</b> Address of Applicant :DEPARTMENT OF ECE, LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY, JONNADA, DENKADA, VIZIANAGARAM-535005, INDIA. E- mail id: kiranmai.b@lendi.org Andhra Pradesh India
(31) Priority Document No	:NA	<b>2)G INDIRA PRIYADARSHINI (ASSOCIATE PROFESSOR)</b>
(32) Priority Date	:NA	<b>3)Dr. SHILPA SRIVASTAVA</b>
(33) Name of priority country	:NA	<b>4)Ms. RITU AGARWAL</b>
(86) International Application No	:NA	<b>5)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS)</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. BABBURU KIRANMAI (PROFESSOR)</b>
(61) Patent of Addition to Application Number	:NA	<b>2)G INDIRA PRIYADARSHINI (ASSOCIATE PROFESSOR)</b>
Filing Date	:NA	<b>3)Dr. SHILPA SRIVASTAVA</b>
(62) Divisional to Application Number	:NA	<b>4)Ms. RITU AGARWAL</b>
Filing Date	:NA	<b>5)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS)</b>

(57) Abstract :

RDAH- Health Notification: IoT based Health Notification and Real Time Doctor Availability checking in Hospital Using Machine Learning. ABSTRACT Our Invention RDAH- Health Notification • is a monitoring system for a person includes a processor coupled more than one wireless nodes a wearable mobile appliance in communication with the client and one or more wireless nodes. The invention also implemented agents with rules executed by the processor, the rules being selected to respond to a client communication relating to a predetermined health condition each agent communicating with another computer implemented agent, the client or the treatment professional. The invented technology also receiving a communication from the client the processor selecting one or more computer implemented agents to reply with an instruction on healthy client behavior. The invented technology a low cost tracking system employing satellites of the global positioning system (GPS) is suitable for applications involving radiosondes, sonobuoys, and other doctors. The invented technology the tracking system includes a sensor mounted on each doctor which digitally samples the GPS satellite signals and records them in a data buffer the digital samples are then transmitted, at a rate lower than that at which the GPS satellite signals were sampled, over a data telemetry link, interleaved with other telemetry data from the doctor. The invented technology the GPS data is processed in a data processing workstation where the position and velocity of the sensor at the time the data was sampled is computed. The invented technology the data buffer in the sensor is periodically refreshed, and the workstation periodically computes the new position and velocity of the sensor. Differential corrections are also provided at the workstation to aid in signal acquisition and to increase the precision of the position fix.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041456 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD FOR IMPROVED PRODUCTION OF METHANE IN BIOGAS

(51) International classification :C12M33/00  
(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)Narendra N**

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru Karnataka India

**2)Krishnamurthy N**

**3)Dr. Arunkumar T**

**4)Venkatesh Naik**

**5)Puneethkumar N**

**6)Dr. Gopi S**

(72)Name of Inventor :

**1)Narendra N**

**2)Krishnamurthy N**

**3)Dr. Arunkumar T**

**4)Venkatesh Naik**

**5)Puneethkumar N**

**6)Dr. Gopi S**

(57) Abstract :

A process for the production of biogas from v1 mulberry leaves feeded silkworm larval litter and cashew nut fruit biomass are disclosed, the processes follow the steps of (a) preparation of the feedstock in required ratio; (b) feeding the biodegradable biomass to the digester; (c) introducing microorganisms in the slurry; (d) mixing the zinc oxide into the digester (e) allowing the slurry under anaerobic co-digestion conditions; (f) collecting the biogas; The steps (a), (b) and (c) can be carried out in any order.

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

(54) Title of the invention : PROVIDING QUICK RURAL AND REMOTE NURSING CARE FOR ELDERLY PEOPLE USING LOCATION-BASED MEDICAL RECORD SYSTEM

<p>(51) International classification :A61B5/6801</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><b>1)Dr. P. Dhana Lakshmi</b> Address of Applicant :Associate Professor, Department of Computer Science and System Engineering, Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh- 517102 Andhra Pradesh India</p> <p><b>2)Dr Arun Korath</b></p> <p><b>3)Dr Sangheethaa S</b></p> <p><b>4)Mrs.Pakalapati.Ratna Pavani</b></p> <p><b>5)Ms. Praveena Pillala</b></p> <p><b>6)Dr. Jyothi N.M</b></p> <p><b>7)Dr. Anoop V</b></p> <p><b>8)Dr. K. Sridharan</b></p> <p><b>9)Dr. Sahithya Ravali</b></p> <p><b>10)Mr.Shyam Kumar Katta</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. P. Dhana Lakshmi</b></p> <p><b>2)Dr Arun Korath</b></p> <p><b>3)Dr Sangheethaa S</b></p> <p><b>4)Mrs.Pakalapati.Ratna Pavani</b></p> <p><b>5)Ms. Praveena Pillala</b></p> <p><b>6)Dr. Jyothi N.M</b></p> <p><b>7)Dr. Anoop V</b></p> <p><b>8)Dr. K. Sridharan</b></p> <p><b>9)Dr. Sahithya Ravali</b></p> <p><b>10)Mr.Shyam Kumar Katta</b></p>
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## (57) Abstract :

Offering healthcare services to impoverished Indians is a significant impediment, except for general medical conditions including flu, diarrhea, and knee joint pain for elder peoples. Various aspects of ambiguity frequently reported in healthcare information, and shortage in rural areas, healthcare professionals, and specialized resources make the epidemic inevitable. Medical professionals regulate fundamental illnesses like heart rate, blood pressure, height, weight, oxygen saturation level, and human body temperature in remote rural Indian medical vending machines. By engaging with, Healthcare professionals and information analyzers, attempt to interpret simple health issues such as diarrhea, fatigue, breathlessness, and stomach pain. Lack of certainty, nevertheless, emerges in conclusion device Non-standardization due to lack of associated symptoms Sensor systems, calculating failure, and poor understanding of a persons health condition. Utilizing telemedicine services to provide and support medical facilities in remote communities will eliminate or mitigate barriers and stresses that patients face, such as mobility problems associated with commuting specialized treatment. This invention promotes the location-based nursing record device, labeled Medical Quick Care Record, which will instantly turn the display panel and its objects focusing on the venue. The device will also correctly classify the workers operating at the care facility and the beneficiary of treatment through the BLE beacons. To illustrate the feasibility of the method, such an analysis is conducted in a real care home for five days. As a result, it observes that perhaps the current technique would reasonably classify the position of treatment and the beneficiary of treatment so that the workers would render treatment reports quickly and reliably. Healthcare will also enhance healthcare system control, consistency, and interactions.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041534 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATED RAILWAY MANAGEMENT INFORMATION SYSTEM THEREOF

(51) International classification :B61L25/021  
(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)Dr.P.S.VENKATESWARAN**

Address of Applicant :Professor, Department of Management Studies, PSNA College of Engineering and Technology, Dindigul 624 622, Tamilnadu India Tamil Nadu India

**2)Mrs.A.ALEESWARI**

**3)Dr.R.KARTHIGAIVEL**

**4)Dr.S.BALAMURUGAN**

(72)Name of Inventor :

**1)Dr.P.S.VENKATESWARAN**

**2)Mrs.A.ALEESWARI**

**3)Dr.R.KARTHIGAIVEL**

**4)Dr.S.BALAMURUGAN**

(57) Abstract :

The Smart Railway Management System (SRMS) helps the loco pilots/station masters to know whether the tracks and paths are in correct conditions or not as an automatic manner. The SRMS is designed in such a manner to measure the distances of the every railway track beams using proximity sensors. These distances are periodically stored in centralized server as an automatic manner using appropriate wireless network. A warning message is generated to server if any changes in the distances. The loco pilots are in every train updates the path details to the server while their journey. By using this SRMS, the loco pilots/station masters can know the tracks and paths are in correct conditions or not at each and every stage as an automatic manner through centralized server to avert the unwanted happenings.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041569 A

(19) INDIA

(22) Date of filing of Application :24/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DASATINIB FORMULATION COMPOSITION AS SELF NANO EMULSIFYING DRUG DELIVERY SYSTEM

(51) International classification :A61K31/573  
(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)Dr. PAMU SANDHYA**

Address of Applicant :PROFESSOR & HEAD, DEPT OF PHARMACEUTICS, SHADAN WOMEN<sup>TM</sup>S COLLEGE OF PHARMACY, KHAIRATABAD, HYDERABAD-500004, TELANGANA, INDIA Telangana India

**2)AYESHA BEGUMK**

**3)Dr. D. V. R. N. BHIKSHAPATHI**

(72)Name of Inventor :

**1)Dr. PAMU SANDHYA**

**2)AYESHA BEGUMK**

**3)Dr. D. V. R. N. BHIKSHAPATHI**

(57) Abstract :

The present invention discloses a Dasatinib formulation composition in the form of self-nano emulsifying drug delivery system by spontaneously formation of nano- emulsion with immediate contact of gastric fluids. The pharmaceutical composition of Dasatinib shows an improved solubility, dissolution rate, enhanced drug loading ability, excellent drug release and bio availability of poorly soluble drugs along with 10 high stability. The composition comprises of an effective amount of a Dasatinib, an oil phase, a surfactant and a cosurfactant.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041609 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : LEFT VENTRICULAR ASSISTED DEVICE WITH MAGNETIC LEVITATION

(51) International classification :A61M1/1015  
(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)KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE**

Address of Applicant :Opp to Yerragattugutta, Bheemaram, Hanamkonda, Warangal, Telangana 506015, India. Telangana India

(72)Name of Inventor :

**1)Dr. K. Eswaraiah**

**2)Dr. K. Sridhar**

**3)Dr. G. Ganesh Kumar**

**4)Dr. K. Venu Madhav**

**5)Dr. K. Ashoka Reddy**

(57) Abstract :

LEFT VENTRICULAR ASSISTED DEVICE WITH MAGNETIC LEVITATION The present invention discloses a centrifugal blood pump apparatus (100) comprising two sets of magnets (102, 104), wherein one set of magnets (102) is arranged in an impeller and another set of magnets (104) is arranged in a rack area, a set of blades (202a, 202b) inserted within an impeller housing (302), wherein the set of blades are arranged above and below the impeller set of magnets; and a diffuser within a volute (402) arranged on the impeller housing for venting out the blood flow pumped from the another set of magnets towards the impeller, wherein the blood flow is pumped by attractive and repulsive magnetic forces acting between the two sets of magnets.

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

(54) Title of the invention : SMART COGNITIVE RADIO TECHNOLOGY-BASED KIT FOR V2V COMMUNICATION

(51) International classification :H04W72/06  
 (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)Mr. C.Visvesvaran**

Address of Applicant :Assistant Professor, Department of ECE, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India-641008. Tamil Nadu India

**2)Mr.J.R.Dinesh Kumar****3)Mr.S.P.Karthi****4)Mrs.B.Anish Fathima****5)Ms.B.Vidhya****6)Ms.P.Vinesha****7)Ms.K.Sowmiya****8)Mr.G.Siva****9)Mr.N.Gowtham****10)Mr. V.Srikanth****(72)Name of Inventor :****1)Mr. C.Visvesvaran****2)Mr.J.R.Dinesh Kumar****3)Mr.S.P.Karthi****4)Mrs.B.Anish Fathima****5)Ms.B.Vidhya****6)Ms.P.Vinesha****7)Ms.K.Sowmiya****8)Mr.G.Siva****9)Mr.N.Gowtham****10)Mr. V.Srikanth****(57) Abstract :**

Cognitive radio technology is one of the rising technologies that has gathered enormous response and have paved ways towards various outstanding applications. One such slice is Vehicular-to-Vehicular communication. In the present invention, we have designed a kit that uses Cognitive radio technology to communicate between various vehicles. The main goal of this invention is to avoid accidents and crashes between vehicles by providing effective means of communication among them. The present invention comprises of Arduino Uno as a core for controlling all the operations and Sensors such as Alcohol sensor. Ultrasonic sensor, speed sensor and IR sensor are used to gather information like humidity, speed and distance. It is based on the transmission of sensor data values between two vehicles using cognitive radio channel. We analyze the configuration and the dynamics of connected vehicle systems and access the motion data of vehicles. Then, we introduce a link length estimator to find number of vehicles between the broadcasting vehicle and the receiving vehicle. The essential component, frequency spectrum is limited. Using this present invention, one vehicle communicates with other vehicle by assigning unique address detection method so that the accurate information is transmitted between vehicles without noise and false data.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041657 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : MULTI-PURPOSE SKIN PEELER

(51) International classification :A47J17/02  
(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)Dr.K.VELMURUGAN**

Address of Applicant :SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE, MADAGADIPET, PUDUCHERRY  
- 605107, INDIA. Pondicherry India

**2)Dr.VS.K VENKATACHALAPATHY**

(72)Name of Inventor :

**1)Dr.K.VELMURUGAN**

**2)Dr.VS.K VENKATACHALAPATHY**

**3)Mr.K.NAVANITHA KRISHNAN**

**4)Mr.R.MANIKANDAN**

**5)Mr.S.ARUL PRADEEP**

**6)Mr.P.SATHIA PRATHAP**

**7)Mr.M.GUNASEKAR**

**8)Mr.S.PRAKASH**

**9)Mr.S.SARAVANAN**

**10)Mr.S.JAGAN**

**11)Mr.K.OUDAYAKUMAR**

**12)Mr.N.VIJAYAN**

(57) Abstract :

The removal of the cloves from the bulb and peeling of the skin is generally done by traditional methods. They are either removed using a knife or by vigorous shaking of the bulb inside a container. This process is time consuming and is less hygienic. In pickle industries the peeling machine used is very expensive and huge. The process of separation of the cloves and the peeling of the skin is to either use the garlic directly or as a paste. Until now there are no small scale appliances available for doing these operations. Our proposed invention model is comprises of a setup which has a peeler, lid, jar, blower and motor. This equipment works on three stages. First, the cloves are separated from the bulb. Second, the removal of the outer skin from the clove and third is the separation of the skin and cloves by a blower. The option of obtaining the paste is also proposed. This process is hygienic as hands are not being used. The machine has efficiency more than 85%. This invention will be of great use as the time consumption is less, hygienic and economical. Even a common man can afford to buy the society oriented invention. Key words: Economical, Garlic, peanut skin peeler, hygienic

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041702 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : BLOCKCHAIN FOR 5G-ENABLED IOT FOR INDUSTRIAL AUTOMATION.

(51) International classification :H04L9/0643  
(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)Dr. Subodh Panda**

Address of Applicant :Pragati Engineering College, Professor,  
Electronics & Communication Engineering, -378, ADB Road,  
Surampalem Near Kakinada, Surampalem, Andhra Pradesh  
533437 Andhra Pradesh India

**2)Dr Surapaneni Sambhu Prasad**

**3)Dr. SANTOSH KUMAR SAHOO**

**4)Dr. Narendra Mustare**

**5)Dr Srinivas Akula**

**6)Dr Sanjit kumar Dash**

**7)Mr. Shyam Prasad Devulapalli**

**8)Mr Misbahuddin Mahammad**

**9)Mrs D. Sirisha**

(72)Name of Inventor :

**1)Dr. Subodh Panda**

**2)Dr Surapaneni Sambhu Prasad**

**3)Dr. SANTOSH KUMAR SAHOO**

**4)Dr. Narendra Mustare**

**5)Dr Srinivas Akula**

**6)Dr Sanjit kumar Dash**

**7)Mr. Shyam Prasad Devulapalli**

**8)Mr Misbahuddin Mahammad**

**9)Mrs D. Sirisha**

(57) Abstract :

Internet of-Things (IoT) has made pervasive figuring a reality by expanding Internet availability in different applications sent over the globe. IoT interface billions of items together for rapid information move particularly in 5G-empowered modern condition during data assortment and handling. The greater part of the issues, for example, get to control instrument, time to get the information from various gadgets and conventions utilized may not be pertinent in for future applications as these conventions depend on a brought together engineering. This unified design may have a solitary purpose of disappointment along with the computational overhead. In this way, there is a requirement for a proficient decentralized access control system for device-to-device (D2D) correspondence in different modern divisions IoT enabled mechanical mechanization. In such a domain, security and protection conservation are significant worries as the greater part of the arrangements depend on the incorporated design. To moderate the previously mentioned issues, we present a top to bottom review of state of-the-craftsmanship proposition having 5G-empowered IoT as a spine for blockchain-based modern robotization for the applications, for example, Smart city, Smart Home, Healthcare 4.0, Smart Agriculture, Autonomous vehicles and Supply chain the executives. From the current recommendations, it has been seen that blockchain can upset the greater part of the current and future modern applications in various segments by giving a fine-grained decentralized access control. Different exchanges and database logs can be followed proficiently utilizing blockchain for consistency and privacy conservation in the afore mentioned mechanical segments. The open issues and difficulties of 5G-empowered IoT for blockchain-based Industrial computerization are likewise investigated in the content. At long last, an examination of existing proposition concerning different boundaries is introduced which permits the end clients to choose one of the recommendations in contrast with its benefits over the others.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041755 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : OCCUPATIONAL STRESS MODEL AND COPING STRATEGIES THEREOF

(51) International classification :G06F16/21  
(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)DR. NIDHI ARORA**

Address of Applicant :DIRECTOR , MANAGEMENT , DR.  
AMBEDKAR INSTITUTE OF MANAGEMENT STUDIES 5TH  
CROSS 7TH MAIN HAL II STAGE INDIRA NAGAR  
BANGALORE Karnataka India

**2)Veena R S**

**3)Dr Priti Verma**

**4)Dr.Sunanda Dixit**

**5)ANITHA G**

**6)Dr.MANOJ H M**

**7)Rachana M Hullamani**

**8)R. K. Shanthikiran**

**9)Mahesh Belur Veerachari**

**10)Dr. Parashuram Baraki**

**11)Mr. Vinod B R**

**12)Mrs. Shobha R**

**13)Dr.Piyush Kumar Pareek**

(72)Name of Inventor :

**1)DR. NIDHI ARORA**

**2)Veena R S**

**3)Dr Priti Verma**

**4)Dr.Sunanda Dixit**

**5)ANITHA G**

**6)Dr.MANOJ H M**

**7)Rachana M Hullamani**

**8)R. K. Shanthikiran**

**9)Mahesh Belur Veerachari**

**10)Dr. Parashuram Baraki**

**11)Mr. Vinod B R**

**12)Mrs. Shobha R**

**13)Dr.Piyush Kumar Pareek**

(57) Abstract :

The invention discloses a system capable of capturing the changes in behavioral traits of employee, identifying the stress level increase and suggesting the customized coping strategy that best suits the employee based on his past history collected using Machine Learning. This Invention provides customized solution to reduce the stress levels through monitoring based on inputs from Infrared cameras, CCTV Cameras from Parking area, workplace & cafeteria. The traits will be compared with the ideal traits of the employee and deviation will be reported with a solution best suitable for optimized results. This invention will ensure reliable monitoring and accurate results for betterment of the workplace and efficiency optimization of the employee.

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

(54) Title of the invention : NON-PNEUMATIC RESILIENT TIRE

(51) International classification	:B60C7/16
(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)Dr Arunkumar T**

Address of Applicant :Associate Professor, Department of Mechanical Engineering, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru Karnataka India

**2)Dr. J. Parthipan****3)Dr. G. Anand****4)Dr. S. Karthikayan****5)Dr. Ram Subbiah****6)Dr Selvakumaran T****7)Mr. Shiva Naga Sathwik Sridhara****8)Mr. Chaitanya kumar Bachu****9)Mr. Bhanu prakash kandula****(72)Name of Inventor :****1)Dr Arunkumar T****2)Dr. J. Parthipan****3)Dr. G. Anand****4)Dr. S. Karthikayan****5)Dr. Ram Subbiah****6)Dr Selvakumaran T****7)Mr. Shiva Naga Sathwik Sridhara****8)Mr. Chaitanya kumar Bachu****9)Mr. Bhanu prakash kandula****(57) Abstract :**

Inflation pressure is then one of the most important design parameters for a pneumatic tire. Unfortunately, when inflation pressure is fixed, the designer of a pneumatic tire has limited flexibility to modify the vertical stiffness of the tire. Good pressure maintenance is required to obtain the best performance from a pneumatic tire. The invention relates to a resilient tire capable of supporting a vehicle load by the structural components of the tire without the assistance of the internal air pressure of the tire. The main advantage is pressure maintenance and/or pressure monitoring is not required in a resilient tire. Herein, the improved elastic cushion bellows are introduced within a shoe of an ordinary tire with polyurethane partition between the arrays of bellows instead of the inner inflated tube. These partitions will support the bellows to overcome the blowout and safeguard the tire from high shocks during the tire rotations.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041794 A

(19) INDIA

(22) Date of filing of Application :25/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : INTEGRATED HEATING SYSTEM AND TEMPERATURE MONITORING FOR VACUUM ASK •

(51) International classification

:F24H8/00

(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)Harisha P**

Address of Applicant :CMR Institute of Technology 132

AECS Layout ITPL Main Road, Kundalahalli Bangalore 560037

Karnataka India

**2)Manikandan H**

**3)Prashant S. Hatti**

**4)Infant Cyril S.**

(72)Name of Inventor :

**1)Harisha P**

**2)Manikandan H**

**3)Prashant S. Hatti**

**4)Infant Cyril S.**

(57) Abstract :

Drinking Hot water is beneficial. The presently available flasks lacks the heating mechanism integrated with the flask and it does only retain the temperature (cold or hot) upto certain hours. Most of the times, people used to forget heating water separately because of the time constraint and busy life, they ignore drinking hot water. The proposed flask which carries a heating mechanism within it, overcomes the need of heating water separately and pouring inside. The heating source is an induction coil provided at the base of the water bottle and the coil is powered using rechargeable batteries, which can be placed securely at the bottom of the bottle itself. Also the present flask has integrated temperature monitoring, with the battery system which will auto-cut off the power to the coil which facilitates the prevention of over-heating and thus saves the time required to cool the overheated water. Ultimately one can directly drink the water once it is heated rather than taking time to cool it and drink

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

(54) Title of the invention : AUTOMATED QUANTIFICATION SYSTEM FOR TISSUE IN NON CONTRAST CT IMAGES USING DEEP LEARNING

<p>(51) International classification :G06T7/0012</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><b>1)Mrs.Seelaboyina Radha</b> Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Geethanjali College of Engineering and Technology, Hyderabad, Telangana, India. Pin Code-501301 Telangana India</p> <p><b>2)Mr.Erukala Mahender</b></p> <p><b>3)Mr.P.Nagaraj</b></p> <p><b>4)Mr.Rambabu Atmakuri</b></p> <p><b>5)Mr.A.Prakash</b></p> <p><b>6)Mrs.Annavarapu Mahalakshmi</b></p> <p><b>7)Mrs.Bigul Sunitha Devi</b></p> <p><b>8)Mrs.Bethala Shirisha</b></p> <p><b>9)Mr.Hazari Venkata Ramana Rao</b></p> <p><b>10)Mrs.B Pravallika</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mrs.Seelaboyina Radha</b></p> <p><b>2)Mr.Erukala Mahender</b></p> <p><b>3)Mr.P.Nagaraj</b></p> <p><b>4)Mr.Rambabu Atmakuri</b></p> <p><b>5)Mr.A.Prakash</b></p> <p><b>6)Mrs.Annavarapu Mahalakshmi</b></p> <p><b>7)Mrs.Bigul Sunitha Devi</b></p> <p><b>8)Mrs.Bethala Shirisha</b></p> <p><b>9)Mr.Hazari Venkata Ramana Rao</b></p> <p><b>10)Mrs.B Pravallika</b></p>
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(57) Abstract :

Non-Contrast Computer Tomography (CT) imaging is commonly used invasive technique to rule out Cardiovascular Diseases. Calcified Atherosclerotic Plaque, Epicardial and Thoracic Adipose Tissue in the coronary arteries are the leading cause of Cardiovascular Diseases, can be known by the Non-Contrast Computer Tomography (CT) images. The Present invention discloses the Fully Automated Quantification System for Tissue in Non Contrast CT Images using Deep Learning comprising of: Input Image (402); Pre-Processing (403); Segmentation (406); Convolutional Neural Network (CNN) (408); Performance (412); provides a reliable method of Risk Assessment with time saving. The invention disclosed here is Automated Quantification System for Tissue in Non Contrast CT Images using Deep Learning provides the Accuracy of 94.37%, Sensitivity of 94.45%, and Specificity of 99.82% with 2.52 seconds time elapsed.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041838 A

(19) INDIA

(22) Date of filing of Application :26/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PORTABLE PUBLIC SURVEILLANCE DEVICE WITH AN AI DRIVEN FACE RECOGNITION COMPUTATIONAL MODULE FOR LARGE SCALE COMMUNITY POLICING

(51) International classification :G08B13/19695  
(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)Dr. REMESH BABU K R**

Address of Applicant :ROHINI, C/O SREERAMA  
NILAYAM, EROOR (W), TRIPUNITHURA, ERNAKULAM,  
PIN - 682306 Kerala India

**2)Dr. PREETHA K G**

**3)Dr. SARITHA S**

**4)Mr. BINU A**

(72)Name of Inventor :

**1)Dr. REMESH BABU K R**

**2)Dr. PREETHA K G**

**3)Dr. SARITHA S**

**4)Mr. BINU A**

(57) Abstract :

The invention relates to a portable public surveillance system ensuring the public security and also to deliver security services regardless of time and place. The invention provides a practical solution supporting the community policing platform to ensure the security of normal citizens and VIPs. The law enforcement agencies can be equipped with the concealed and secure proposed system. The invention is cost effective, simple and portable solution.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041853 A

(19) INDIA

(22) Date of filing of Application :26/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SELF VENTILATING HAND GLOVE FOR IMPROVED AIR CIRCULATION AND HUMAN COMFORT

(51) International classification :A61F7/02  
(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)Sanitha Michail C**

Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, CMR Institute of Technology, AECS Layout, Bengaluru Karnataka India

**2)Rajeev T John**

**3)Siona Raj**

(72)Name of Inventor :

**1)Sanitha Michail C**

**2)Rajeev T John**

**3)Siona Raj**

**4)Kevin Raj**

**5)Robin Davis**

**6)Kiran Christopher**

(57) Abstract :

A self ventilating hand glove with in-built elastomeric air chambers along with a plurality of one way check valves to breathe in and breathe out air, thus enhancing ventilation within the glove, is disclosed. The glove is provided with protrusions inside which keeps it offset from the skin and helps the passage of air between the skin and the glove. Compression produced from hand movements and/or the compression produced while handling objects, squeezes air out from the elastomeric air chambers. The squeezed out air comes out through a plurality of one way check valves and is directed to multiple passages and gets out through the gaps formed by the protrusions. This improves the air circulation inside the glove and carries away moisture and improves human comfort.

No. of Pages : 29 No. of Claims : 7



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041872 A

(19) INDIA

(22) Date of filing of Application :26/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DYNAMICALLY STABLE ACTIVE SPHERE

(51) International classification :B62K1/00  
(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)Krishna M**

Address of Applicant :SRMIST, Bharathi Salai, Ramapuram,  
Chennai 600089 Tamil Nadu India

**2)Dhananjay S**

**3)Bharadhwaj R**

**4)Vamsi Krishna C**

**5)Srikanth V**

**6)Silkson John J**

**7)Dr.Thanigaivelan V**

**8)Dr. Swaminathan G**

(72)Name of Inventor :

**1)Krishna M**

**2)Dhananjay S**

**3)Bharadhwaj R**

**4)Vamsi Krishna C**

**5)Srikanth V**

**6)Silkson John J**

**7)Dr.Thanigaivelan V**

**8)Dr. Swaminathan G**

(57) Abstract :

ABSTRACT DYNAMICALLY STABLE ACTIVE SPHERE Robots require large spaces and come in huge sizes for complicated functions. Even with small-sized robots, there are functional constraints, run time issues and manufacturing difficulties. Robots need to be instantly upgradable and also multi-functional. To overcome the issues with the small mobile robots we have come up with a new idea of changing the mode of mobility that decreases the overall size and increases the translation and accuracy of these robots. This range of robots is balanced on a sphere and is translated with the help of a sphere. The control system is fixed on the first level of the robot. We can increase the height and number of levels of the system, by which further development is also enabled. Thus, the whole system is confined to the diameter of the sphere. The overall weight, accuracy of mobility, and response to human signals are made to function in a way that is simple, easy to understand, and that enables user-defined functions and responses.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041906 A

(19) INDIA

(22) Date of filing of Application :27/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : FAR FIELD AND NEAR FIELD RADIATION PATTERN OF GOLD NANO PARTICLE IN MIE SCATTERING PHENOMENON MODELING USING DGTD METHOD

(51) International classification :A61B5/0071  
(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)Ms. S. Divya Shree.**

Address of Applicant :Student, Dept. of Computer Science and Engineering, BMS Institute of Technology and Management, no. 6443, Doddaballapur Main Road, Yelahanka, Bangalore, Karnataka - 560064 Karnataka India

**2)Dr. Bharathi M.A**

**3)Dr Narayan .K**

(72)Name of Inventor :

**1)Ms. S. Divya Shree.**

**2)Dr. Bharathi M.A**

**3)Dr Narayan .K**

(57) Abstract :

The intention behind this invention is design and analysis of Lab-on-a-Chip device sensor using DGTD technique of Mie Scattering phenomenon to facilitate further fabrication. Our idea is to develop a non-invasive diagnostics tool for the detection of cancer. Mie theory can be used to classify that scattered visible light from tissue differentiates the healthy cell and malignant cell nuclei and for optical analysis of haematology and its related diseases. Discontinuous Galerkin Time Domain (DGTD) method forms a class of numerical methods for solving differential equations. It provides superior performance, independent of geometry complexity, within a design environment. Total Field Scattered Field (TFSF) in DGTD can be of any arbitrary shape so scattering and absorption methods can be defined over a curved surface. The data extracted by the sensor device can later be pre-processed to extract essential insights about the user.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041907 A

(19) INDIA

(22) Date of filing of Application :27/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CONSENT MANAGER EXTENSIONS FOR AUTHENTICATION TOKENS

(51) International classification :H04L63/067  
(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)Saravanan Sankaran**  
Address of Applicant :71 Alamelupuram 2nd Street, Selaiyur,  
Madambakkam, Chennai Tamil Nadu Tamil Nadu India  
(72)**Name of Inventor :**  
**1)Saravanan Sankaran**

(57) Abstract :

A consent management system wherein the client could provide consent to other clients to an Authorization Server and this consent can be passed to other clients in the form of JWT authorization tokens. For example, a client could provide consent to a list of clients enabling them to read its data at a Web Server, and the Authorization server would save this data and provide this to other clients packaged inside a JWT token, which when used by those clients at the Web Application servers, would allow them to access the data of the clients mentioned in the JWT token. This makes the consent protocol a push model and can be done at the time of data generation, versus a pull model, where a client would need to request permission at the time it wishes to read the data. This mechanism has advantages that the client providing consent need not be available at the time when the data is actually being read by other clients, and has benefits in the some fields like Healthcare, where a patient could grant consent to read his data by a wildcard entry of email identifiers, and doctors could access the patients data at any time, till the time the consent has been granted.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041911 A

(19) INDIA

(22) Date of filing of Application :27/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CAR SECURITY CENTRAL DOOR AND DOOR GLASS LOCKING SYSTEM

(51) International classification :E05C9/025  
(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)Mr.Krishnan Prabu**

Address of Applicant :Project Engineer-Electronics, NIELIT,  
Chennai - 600025. Tamil Nadu India

**2)Dr. T.Ganesh Kumar**

**3)Mr.Saravanan.D**

**4)Dr. M.Jasmin Pemeena Priyadarisini**

**5)Dr. A.Jabeena**

**6)Mrs. Divya Sharma**

**7)Mrs. Indu bhardwaj**

**8)Mr. Kanhaiya Kumar**

**9)Mr. Kumar Saurabh**

(72)Name of Inventor :

**1)Mr.Krishnan Prabu**

**2)Dr. T.Ganesh Kumar**

**3)Mr.Saravanan.D**

**4)Dr. M.Jasmin Pemeena Priyadarisini**

**5)Dr. A.Jabeena**

**6)Mrs. Divya Sharma**

**7)Mrs. Indu bhardwaj**

**8)Mr. Kanhaiya Kumar**

**9)Mr. Kumar Saurabh**

(57) Abstract :

CAR SECURITY CENTRAL DOOR AND DOOR GLASS LOCKING SYSTEM • Many people having a car lose their valuable things which they keep in the car and forgot to check the car door glass locked, this creates the chance to easily lose the valuable things in the car. This advance system will check the door locking status only. In this proposed central door locking and door glass locking detector will monitor all the doors with door glass locking status. If car owner/driver forgot to check while doing central locking this will gives the sound and flashing lights to alert them, this system will save many persons valuable things in the car.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041915 A

(19) INDIA

(22) Date of filing of Application :27/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM FOR DIABETIC RETINOPATHY PATIENTS USING BLOOD VESSELS ANNOTATION

(51) International classification	:A61M5/158	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Mrs.V.Auxilia Osvin Nancy</b>
(32) Priority Date	:NA	Address of Applicant :Assistant Professor Department of
(33) Name of priority country	:NA	Information Technology S.A.Engineering college Chennai-77
(86) International Application No	:NA	Tamilnadu Tamil Nadu India
Filing Date	:NA	<b>2)Dr S Saravana kumar</b>
(87) International Publication No	: NA	<b>3)Ms.G.Kalpana</b>
(61) Patent of Addition to Application Number	:NA	<b>4)Dr. M.M. Gowthul Alam</b>
Filing Date	:NA	<b>5)Mrs.D.Jayashree</b>
(62) Divisional to Application Number	:NA	<b>6)Mrs.S.K.Aruna</b>
Filing Date	:NA	(72)Name of Inventor :
		<b>1)Mrs.V.Auxilia Osvin Nancy</b>
		<b>2)Dr S Saravana kumar</b>
		<b>3)Ms.G.Kalpana</b>
		<b>4)Dr. M.M. Gowthul Alam</b>
		<b>5)Mrs.D.Jayashree</b>
		<b>6)Mrs.S.K.Aruna</b>

(57) Abstract :

The present invention discloses the abnormal blood vessels annotation system for diabetic retinopathy patients, which comprises annotation system for detecting the damaged blood vessel present in the eye. The main design of the present invention is to determine and annotate whether any damaged blood vessel is present in diabetic retinopathy (DR) patients, which undergoes several processes such as pre-processing, blood vessel segmentation, optic disc segmentation, feature extraction, and classification. The comparator is included to compare the output of the processed image with the image of the normal blood vessel to determine the exact region of the damage blood vessels, and finally the annotation system determines the risk level to find out the annotated abnormal blood vessel.

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

(54) Title of the invention : STAR COOK AN ADVANCED IOT BASED VARIETY COOKING MACHINE

(51) International classification :H05B6/062  
 (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)Dr.G.Soundra Devi**

Address of Applicant :Professor, Department of Electrical & Electronics Engineering, Sethu Institute of Technology, Pulloor, kariapatti, Virudhunar District 626115, Tamil Nadu, 9791794187  
 gsoundradevi@gmail.com Tamil Nadu India

**2)Dr.J.Rahila****3)Dr.J.Jeyashanthi****4)Dr.A.Narasima Venkatesh****5)P.Durgadevi****6)Dr.S.P.Gayathri****7)Dr.Fathima Jabeen****8)Sugumari Vallinayagam****9)Dr.Shiva Prasad Edara****10)BRAHMDUTT BOHRA****(72)Name of Inventor :****1)Dr.G.Soundra Devi****2)Dr.J.Rahila****3)Dr.J.Jeyashanthi****4)Dr.A.Narasima Venkatesh****5)P.Durgadevi****6)Dr.S.P.Gayathri****7)Dr.Fathima Jabeen****8)Sugumari Vallinayagam****9)Dr.Shiva Prasad Edara****10)BRAHMDUTT BOHRA****(57) Abstract :**

The innovation STAR COOK AN ADVANCED IOT BASED VARIETY COOKING MACHINE is focused on advanced IoT based variety cooking machine based on the technology that integrated a cooking ingredient dispenser, water dispenser, cooking element with mixing unit and a control unit are grouped to process a multi-stage and variety cooking process in an effective time period. A programmable controller controls entire cooking process. The quantity measuring unit, precisely measure cooking ingredients to enhance the taste of prepared food. The cooking temperature, cooking process and the quantity measurements are monitored lively with the help of IoT platform.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041922 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : WRIST STRESS RELEASING SEMI-ROTATABLE HANDLEBAR FOR BIKE

(51) International classification	:B62K21/125	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr.V.Agalya</b>
(32) Priority Date	:NA	Address of Applicant :Dr.V.Agalya, Associate Professor Dept.
(33) Name of priority country	:NA	of Electrical and Electronics Engineering, CMR Institute of
(86) International Application No	:NA	Technology, #132, ITPL Road, AECS Layout, Kundalahalli,
Filing Date	:NA	Bengaluru-560037 Karnataka India
(87) International Publication No	: NA	<b>2)Dr.N.Vetrivel</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr.V.Agalya</b>
(62) Divisional to Application Number	:NA	<b>2)Dr.N.Vetrivel</b>
Filing Date	:NA	

(57) Abstract :

The elevation of handlebar having left side handlebar (LH) and right side handlebar (RH).Wherein a semi-rotatable handlebar (100) comprises two assemblies. One is Semi rotatable handle portion (101) and the other one is a Non rotatable handle portion (102).In semi-rotatable handlebars (100) the left handlebar induced stress in the wrist on the resistant side of a left hand is controlled and acted as an external exercising device continuously while riding the bike.

No. of Pages : 25 No. of Claims : 6

(54) Title of the invention : WCNM-SMART CITY: WASTE COLLECTION AND NOTIFICATION MANAGEMENT SYSTEM FOR SMART CITY USING IOT.

<p>(51) International classification  (31) Priority Document No  (32) Priority Date  (33) Name of priority country  (86) International Application No  Filing Date  (87) International Publication No  (61) Patent of Addition to Application Number  Filing Date  (62) Divisional to Application Number  Filing Date</p>	<p>:H04L  29/08  :NA  :NA  :NA  :NA  :NA  :NA  :NA  :NA  :NA  :NA</p>	<p>(71)Name of Applicant :  <b>1)Dr. KATRAGADDA SWARNASRI (PROFESSOR)</b>  Address of Applicant :DEPARTMENT OF ELECTRICAL &amp; ELECTRONICS ENGINEERING, RVR&amp;JC COLLEGE OF ENGINEERING (A) CHOWDAVARAM, GUNTUR, ANDHRA PRADESH, INDIA-522019 E-mail : swarnasrik@gmail.com Phone+91-9848030499 Andhra Pradesh India  <b>2)Dr. APARNA CHAPARALA (PROFESSOR)</b>  <b>3)Dr. RADHIKA SAJJA (ASSOCIATE PROFESSOR)</b>  <b>4)Ms. SWAPNA DHULIPALLA (ASSISTANT PROFESSOR)</b>  <b>5)Dr. PONNAM VENKATA K BABU (ASSISTANT PROFESSOR)</b>  (72)Name of Inventor :  <b>1)Dr. KATRAGADDA SWARNASRI (PROFESSOR)</b>  <b>2)Dr. APARNA CHAPARALA (PROFESSOR)</b>  <b>3)Dr. RADHIKA SAJJA (ASSOCIATE PROFESSOR)</b>  <b>4)Ms. SWAPNA DHULIPALLA (ASSISTANT PROFESSOR)</b>  <b>5)Dr. PONNAM VENKATA K BABU (ASSISTANT PROFESSOR)</b></p>
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(57) Abstract :

Our Invention • WCNM-Smart City • is a system based on IoT technology is used for collecting, recycling, and managing waste found floating in a water body. The invented system also includes non-navigable waters and other types of waste. The system having a flotation platform that is adapted to float in a water body. A waste collection loader, conveyor mounted on the platform having collection box and charging-discharging ends. The invented device is used for separating the waste from the water and loader conveying the waste along the loader conveyor to the charging. The invented technology can also be used for the complete city, like a dustbin management system based on the IoT platform. belong to the internet of things field including intelligent garbage bin IOT platforms PC ends web-based management system and 3G,4G. mobile terminal management software. There are various sensors deployed like the infrared red sensor. It is used to detect the height of the garbage in the intelligent garbage bin. GPS module and the audio, video, text message of infrared ray sensor detection reach the control mainboard and timing transmits data by the intelligent gateway. The invention takes into account the garbage bin, rubbish height in the dustbin, and its position and temperature within the barrel. The bucket is pushed into the collector by IoT enabled devices. The invention also takes into account the city cleaning status, appropriate route planning, and the control and monitoring of the waste in the city.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041935 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A SYSTEM AND METHOD FOR TRACKING THE WARRANTY OF PRIMARY SOURCES OF POWER BASED ON ITS FIRST USE

(51) International classification	:G07C3/02
(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)Sure Naga Kishore**  
Address of Applicant :E 302, Rainbow Vista Apartments  
Green Hills Road, Moosapet, Hyderabad 500018 Telangana,  
INDIA Telangana India

(72)**Name of Inventor :**  
**1)Sure Naga Kishore**

(57) Abstract :

The invention relates to a system for tracking the warranty of primary sources of power such as battery, solar panels based on its first use. It is comprising of an attachment provided to each terminal of the primary source of power having a molded case sense leads (6, 11) placed on the termination of the positive and negative terminals (12, 13) through the respective terminal entry point (7,9) and a Blue tooth transponder tag (2) with programmed serial number of the battery and Media Access Control Identifier (MAC-ID) of this communicating blue tooth transponder tag (2) that pass on the information on the battery to the remote server (19 ). Said Blue tooth transponder tag(2) is connected the molded case sense leads (6,11) supported by insulated wire connector plate (5) and are protected by molded plastic from damaging the tag electronics to prevent any entry of liquid or dust.

No. of Pages : 20 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041968 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD FOR SEPARATION AND IDENTIFICATION OF GOLD FROM BOSINDICUS COW URINE

(51) International classification :C12Q1/6825  
(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)DR R BALAKRISHNARAJA**  
Address of Applicant :ASSOCIATE PROFESSOR, FD,  
BANNARI AMMAN INSTITUTE OF TECHNOLOGY,  
SATHYAMANGALAM, ERODE, TAMILNADU - 638 401.  
Tamil Nadu India  
(72)Name of Inventor :  
**1)DR R BALAKRISHNARAJA**  
**2)MR V. N.LOGESH**  
**3)MR.S.K.DHINESH KANNAN**  
**4)MS.J.BINDHU**

(57) Abstract :

Untainted class of Bos indicus was measured as one of the possessions of antique india because of the charisma of hump which is comprised of a vein named Surya kethu vein which accepts energy from sun rays and renovates it into gold deposits which get added up to the fluids of Bos indicus such as blood, faeces and dairy etc... which in turn enhances the standard of their dairy products (A2 milk).These gold salts own the properties of antidote, anticancer, antiseptic, and others etc....But nowadays boost in the existence of cross classes led to the departure of thehump and reduction in the rearing of the desi cows owing to their low milk yield.Till date, there is no comprehensive evidence for this energy conversion other than the religious history past. Yester scholars examined the fluid trials but they didnt attest this bioenergy transformation and hence, the present study is focussed in developing a method to isolateand confirm the presence of golden hues in the Bos indicus (Kangayam) urine to enable their investigation as a synergistin pharmaceutical formulations in near future.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041979 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ENHANCING THE SECURITY OF SYMMETRIC KEY BLOCK CIPHERS USING RANDOM FUNCTIONS, MESSAGE HISTORY AND COUNT TRACKER

(51) International classification	:H04L63/08	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)SAGNIK PAL</b>
(32) Priority Date	:NA	Address of Applicant :SCOPE VIT, VELLORE
(33) Name of priority country	:NA	TAMILNADU INDIA 632014. Tamil Nadu India
(86) International Application No	:NA	<b>2)S. RAMANI</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)SAGNIK PAL</b>
(61) Patent of Addition to Application Number	:NA	<b>2)S. RAMANI</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In todays world of networking and communication systems there is an ever-present risk of losing data privacy and unauthorized access of data. Sectors like financial and payment systems are at high risk because of their dependence on cyber security. Although, symmetric encryption techniques are older methods of encryption, but they are faster and more efficient than asymmetric encryption techniques. These symmetric key block cipher techniques are no more un-breakable. These cipher algorithms are heavy due to many rounds and not efficient in case of encrypting/decrypting large piece of information. Hence there is a need of enhancement in security as well as speed of such algorithms. In this proposal, ways to improve security and reduce the number of rounds in all secret key algorithms are stated. A new mechanism to generate a new key and a new S-Box each time while sending and receiving the message respectively is proposed. New S-box and key generation will depend on a bunch of security parameters which will be updated on each communication between the sender and the receiver, hence it would be very difficult for an attacker to decipher the cipher text even if he is aware of the initial security parameters.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041984 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : POLYGONAL APPROXIMATION BASED FOREIGN BODY SHAPE CLASSIFICATION ON PEDIATRIC RADIOGRAPHY IMAGES

(51) International classification	:A61B6/02	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)MANGAYARKARASLR</b>
(32) Priority Date	:NA	Address of Applicant :SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING(SITE), VELLORE INSTITUTE OF TECHNOLOGY(VIT), VELLORE, TAMIL NADU, INDIA-632014. Tamil Nadu India
(33) Name of priority country	:NA	<b>2)C.VANMATHI</b>
(86) International Application No	:NA	<b>3)M.VANITHA</b>
Filing Date	:NA	<b>4)M.DEEPA</b>
(87) International Publication No	: NA	<b>5)ANGULAKSHMLM</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Dr.S.MEENATCHI</b>
Filing Date	:NA	<b>7)Dr.S.HEMALATHA</b>
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)MANGAYARKARASLR</b>
		<b>2)C.VANMATHI</b>
		<b>3)M.VANITHA</b>
		<b>4)M.DEEPA</b>
		<b>5)ANGULAKSHMLM</b>
		<b>6)Dr.S.MEENATCHI</b>
		<b>7)Dr.S.HEMALATHA</b>

(57) Abstract :

**ABSTRACT POLYGONAL APPROXIMATION BASED SHAPE IDENTIFICATION ON PEDIATRIC RADIOGRAPHY IMAGES** The foreign body aspiration is a leading cause of home accidental deaths among children Early diagnosis is most important because any diagnostic delay may increase the risk of fetal. Such diagnosis process of foreign body needs radiography assessmentsuch as X- Ray, CT or MRI. Image processing plays vital role in this scenario, especially in automating the process of identifying the shape of the aspired foreign body on pediatric radiographic images in which the complications of diagnosis process will be reduced. With this motivation the research work was carried out with intent to propose an approach for determining the shape of aspired foreign body on pediatric foreign body aspired images. This process requires the radiographic image acquisition of the foreign body aspired pediatric patients, image enhancement and segmentation methods on pediatric foreign body aspired images. In general, the shape of an object is a fundamental source of information in a pattern recognition problem. Obtaining the relevant information set relies on the difficult procedures and is a key problem in current scenario of the research. A new polynomial approximation approach is proposed for the segmentation of contours with a complex geometrical form. Polynomial approximation allows to optimize the number of segments on the contour and to obtain analytically the dependence of the curvature for more exact calculation of informative signs that are invariant to geometrical transformations. The shape of the object is determined using knowledge based approach. To evaluate performance of the developed approach, the accuracy measure precision, recall, F-Measure and receiver operator characteristic (ROC) with respect to sensitivity, specificity, positive predicted rate, and negative predicted rate are computed. The experimental results show that the proposed technique competes well with the state of the art techniques.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041985 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : TOUCHLESS HAND SANITIZER DISPENSER AT A VERY LOW COST

(51) International classification :B65D83/0094  
(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)ANBARASI M**

Address of Applicant :SCOPE, VELLORE INSTITUTE OF TECHNOLOGY(VIT), VELLORE, TAMIL NADU, INDIA-632014. Tamil Nadu India

**2)TARANG GARG**

**3)VEDIK GARG**

**4)SENTHILNADHAN K**

**5)SALEEMDURAI M.A**

**6)SHANTHI V**

**7)SATHYASEELAN B**

(72)Name of Inventor :

**1)ANBARASI M**

**2)TARANG GARG**

**3)VEDIK GARG**

**4)SENTHILNADHAN K**

**5)SALEEMDURAI M.A**

**6)SHANTHI V**

**7)SATHYASEELAN B**

(57) Abstract :

ABSTRACT TOUCHLESS HAND SANITIZER DISPENSER AT A VERY LOW COST In 2020 an illness came in whole world by the name of Covid-19 which also hitted India in February 2020 because of which many people got infected and out of those many died. WHO stated that this illness is transferring from one person to another person by the way of hand and mouth frequently. For which they announced to wear mask and sanitizer or wash your hand regularly and properly with the help of sanitizer and soap. Many companies manufactured Touchless Hand Sanitizer Dispenser which was costly for the people. Cost of that machines are Rs 5000 to Rs 7000 in market when this illness infects our city and our neighborhood to that time my grandfather and father were planning to buy such costly machine for their use. We discuss that why cant we make this machine at a very low and affordable cost so that it can reach to each and every person accordingly to their wallet. That time we move forward and made this machine at a very low-cost price Rs 500 which was our manufacturing price.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041041988 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : HELPING INACCESSIBLE AREAS OF THE WORLD DETECT URINARY TRACT INFECTION (UTI) WITH THE HELP OF IMAGE PROCESSING AND MACHINE LEARNING

(51) International classification :A61F13/42  
(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)RAJKUMAR SOUNARAPANDIYAN**

Address of Applicant :SCOPE, VIT, VELLORE, TAMIL NADU, INDIA-632014. Tamil Nadu India

**2)K.V.ARULALAN**

**3)K.RAJKUMAR**

**4)S.RAMANI**

(72)Name of Inventor :

**1)RAJKUMAR SOUNARAPANDIYAN**

**2)K.V.ARULALAN**

**3)K.RAJKUMAR**

**4)S.RAMANI**

(57) Abstract :

ABSTRACT The usage of machine learning technique is increasing recently in many applications especially in healthcare. Urinary tract infection is one of the most common diseases and detecting those infections at the earliest will eradicate so many problems. In the rural areas we dont have the sufficient doctors and the laboratory equipments to test the urinary tract infection. In order to solve the mentioned problem, we have proposed a methodology using image processing and machine learning techniques. In the proposed model, urine sample is placed on a microscope and the high level camera is used to take the picture of the sample placed on the microscope and then the captured image is sent to the model developed using machine learning. Machine learning model will predict the disease of the patient and generate report. The generated report is passed to the patient/doctor via WhatsApp or telegram. From the report anything out of the ordinary is identified and all the peculiar cases are sent to the doctor as well as the patient is immediately advised to consult a doctor, thus making the entire process much faster and accurate.

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : SUBSTANTIATING WEB SERVICES CHOREOGRAPHY BASED ON AUTOMATA MODEL

(51) International classification	:G06Q10/04	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr.N.Danapaquiame</b>
(32) Priority Date	:NA	Address of Applicant :Sri Manakula Vinayagar Engineering
(33) Name of priority country	:NA	College, Madagadipet, Puducherry, India-605107 Pondicherry
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr.N.Danapaquiame</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Dr.V.S.K.Venkatachalapathy</b>
Filing Date	:NA	<b>3)Dr.E.Ilavarasan</b>
(62) Divisional to Application Number	:NA	<b>4)Ms.P.Bhavani</b>
Filing Date	:NA	<b>5)Dr.V.Vijayalakshmi</b>
		<b>6)Ms.J.Kanimozhi</b>
		<b>7)Ms.V.Swathilakshmi</b>

(57) Abstract :

Internet is a squad of interlinked computer networking universal, which is effortlessly reached to the universal communal. Web services are the process of communication between two electronic devices over the web (internet). Web service choreography is one of the most substantial tasks in sprouting service-oriented systems. However, there are presently some flouts to ensure the meticulousness property of the composed web services. The contemporary approaches distillate mainly on composition and not on substantiation. Even though the substantiation model is available for composed web services which is pertinent for deterministic system and not for non-deterministic system. In this paper, a Reformed Buchi Automata (RBA) has been presented . Bottom up Parsing (BuP) approach and departed splotch algorithm has been developed. Predominantly, the web services are composed by using Web Service Choreography Description Language (WS-CDL). WS-CDL can be transformed into RBA and then transformed into transition states (automata diagram). Using this diagram, BuP approach and departed splotch algorithm is verified; it is used to substantiate the composed web services is accurate or not. The results revealed better enactment in terms of verdict departed states in contrast to the existing models. Keywords: Reformed Buchi Automata, departed splotch, Bottom up Parsing, WS-CDL and web service composition.

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

(54) Title of the invention : GENERIC SMART AUTOMATION SYSTEM

(51) International classification	:H04N21/4318
(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)Dr.J.Madhusudanan**

Address of Applicant :Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry, India-605107. Pondicherry India

(72)Name of Inventor :

**1)Dr.J.Madhusudanan****2)Dr.P.Iyappan****3)Dr.V.Vijayakumar****4)Mr.M.Ganesan****5)Mr.B.Thiyagarajan****6)Mr.S.Kumarakrishnan****7)Mr.A.Prakash****8)Mr.D.Rajesh**

(57) Abstract :

Generic smart Automation Systems are becoming more common, as they can be easily used to control devices and appliances over voice control or based on human activity with the help of sensors. They can play a vital role in future by making things automated and let people do lot of different things from playing songs to unlocking doors. With the help of machine learning and artificial intelligence, smart automation systems can take actions for people without a need to command they system to take regular activities. They can be controlled over voice, Application or even via a Touch Enabled System to provide a complete control and monitoring. Companies including large and small players are all working and selling their own automation solutions. Students and Researchers are also working on their own solution towards automating various devices. Google Home, Amazon Alexa, IFTTT and other companies are providing solutions for smart automation. Small companies like Pert and other organizations are all providing their solution. These small organizations produce products that work with Google Home and Amazon Alexa. These are suitable for people who can afford such systems at huge price. These solutions provide a more intuitive and convenient way to connect and control devices with mobile applications and provide a lot more feature which can be bought and added as a module. Our system is designed and developed in way to increase more efficiency and security in controlling systems. This system can run on any platform and control devices using a ESP8266 WiFi module to communicate with various devices and lot more. The system requires a central processing module to control devices via smart WiFi network and connected to cloud for IoT based operations and like top players in market, we developed a mobile application to connect, control and configure new and existing smart appliances for controlling. And they provide way to connect and handle other third-party devices with their SDK. Our system supports other features through mobile application to add or install new features created by user which perform any activities. Keywords: Internet of Things (IOT), Artificial Intelligence, Machine learning, Wifi Module, Security.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042033 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART ELECTRICAL SENSING IN INFRASTRUCTURE

(51) International classification :G06K7/081  
(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)PRO. K. PREMKUMAR**

Address of Applicant :SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE, MADAGADIPET, PUDUCHERRY  
- 605 107, PUDUCHERRY, INDIA. Pondicherry India

(72)Name of Inventor :

**1)PRO. K. PREMKUMAR**

**2)DR. E. KODHAI**

**3)MR. P. KATHIKEYAN**

**4)MR. N. GOPINATH**

**5)MR. M. SHANMUGAM**

**6)MR. N. BALAJI**

**7)MRS. C. KALPANA**

**8)MR. AROKIARAJ CHRISTIAN ST HUBERT**

(57) Abstract :

ABSTRACT Smart homes utilize advanced systems to bring comfort and convenience to our living experiences. Monitoring the modern infrastructure is very important while moving into advanced systems. It is important to monitor the health of the wiring system since fluctuation of current, wear and tear, the damages caused by the appliances can cause damage to the wire paving way for fire accidents. One of the greatest problems in infrastructure is that it needs effort to detect the fault at its place. Large scale industries also demand the need for a monitoring system to identify and quickly resolve problems to prevent electrical shutdown. It will be very useful if a device is used for real time monitoring of the wiring system to keep an eye on the functioning of the device. Smart infrastructure is the transformation of existing framework to a real-time enhanced system. Most of the current frameworks are now trying to move towards automation such as smart homes, smart warehouses, preventing most of the manual works. Many measures have been taken in smart homes to conserve electricity but there is no means to monitor them. Monitoring them would help us to conserve it more efficiently and also reduces the risk of fire accidents. . Many systems have been proposed and are being in use to detect the faults due to overload, short-circuit, arcing; equipment failure. But they are not that much efficient either they need time or money or manual work. An important facet of a smart building is to protect the lightning system, which prevents damages caused by accidental fires. Overload occurs when there is excess supply of current in a point leading to damaged cables and sockets. Our use case focuses on incorporating a method to monitor the wires without the manual process. We have proposed a system that would approximately locate the point of defect in the wire automatically helping us in saving the time to locate the defect manually. In short, our product, SESI is a monitoring tool for the underlying wiring system.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042044 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : LOW COST METAL 3D PRINTER MANUFACTURING METHOD THEREOF

(51) International classification

:B33Y  
10/00

(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)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)Mrs.V.BHUVANESWARI**

**3)Mr.VELMURUGAN.T**

**4)Dr.JARABALA RANGA**

**5)Dr.M.PRIYADHARSHINI**

**6)Dr.A.K.PRIYA**

(72)Name of Inventor :

**1)Dr.BALAJI.D**

**2)Mrs.V.BHUVANESWARI**

**3)Mr.VELMURUGAN.T**

**4)Dr.JARABALA RANGA**

**5)Dr.M.PRIYADHARSHINI**

**6)Dr.A.K.PRIYA**

**7)Mr.S.K.B. PRADEEPKUMAR CH**

**8)Mr.DEEPAN CHAKRAVATHY.P**

**9)Mr.DHARANIDHARAN S.P**

**10)Mr.GOPINATH.R**

(57) Abstract :

Abstract The metal 3D printer has taken versatile versions, the specific identity of this invention is that, which doesnt require sophisticated modification. Easily modify the simple fused deposition modelling printer into metal 3D printer by replacing the printing head. No need of modifications in software and firmware, the existing open source variants itself is sufficient. The other important embodiment is that making the metal paste. The metal and or metal alloy is taken mixing with the suitable binder. This metal paste is extruded through nozzle different sizes as per the strength. Small size nozzle is for higher strength due to higher compaction. The binder selection can be varied as per the necessity some of the preferable binders are like araldite, neem and soon.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042045 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ECO-FRIENDLY 3D PRINTING FILAMENT MANUFACTURING TECHNIQUE

(51) International classification :B29B9/12  
(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)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)J.VAIJAYANTHIMALA**

**3)Dr.KARTHICK JAYARAM**

**4)Dr.JARABALA RANGA**

**5)Dr.M.PRIYADHARSHINI**

**6)Dr.A.K.PRIYA**

(72)Name of Inventor :

**1)BALAJI.D**

**2)J.VAIJAYANTHIMALA**

**3)Dr.KARTHICK JAYARAM**

**4)Dr.JARABALA RANGA**

**5)Dr.M.PRIYADHARSHINI**

**6)Dr.A.K.PRIYA**

**7)Mr.S.K.B.PRADEEPKUMAR CH**

**8)Mr.E.SATHISH**

**9)Mr.A.SUDHAKAR**

**10)Mr.G.SUDHARSAN**

**11)Mr.N.SURESH**

(57) Abstract :

Abstract: - The waste plastic is placed in the sand pot and melts it by supply heat. The melted plastic is transferred to extruder unit. The plastic melting takes place in the closed chamber there isnt it any leakage in the pot unit. The burnt gas is properly transferred to the suppressing unit. In this unit the burnt gas and water stream allowed to mix well, the mixing is ensured by the supply itself, no need of additional unit for mixing. The mixed gas and water, entire unit is taken out placed inside the condensing unit. During condensation, the contaminated water completely become solid state, then it is safely disposed. The molten state polymer is poured into the extruder via funnel, wherein the filament is extruded on the specific dimensions.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042046 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DEVICE FOR CLEANING THE REST ROOMS AUTOMATICALLY

(51) International classification :E04H3/08  
(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)Dr.BALAJI.D**

Address of Applicant :KPR INSTITUTE OF ENGINEERING  
AND TECHNOLOGY, ARASUR, COIMBATORE, TAMIL  
NADU, INDIA-641407. Tamil Nadu India

**2)Dr.L.RAJESHKUMAR**

**3)Mr.T.KANNAN**

(72)Name of Inventor :

**1)Dr.BALAJI.D**

**2)Dr.L.RAJESHKUMAR**

**3)Mr.T.KANNAN**

**4)Mr.GANDHIRAM.V.R**

**5)Mr. HARIHARAN.V**

**6)Mr. DINESHKUMAR.S**

**7)Mr.SARAN S.P**

**8)Mr.SARAVANARAJ.K**

**9)Mr.SRINIVASA GOGUL.M**

**10)Mr.SRIDAR.S**

(57) Abstract :

Abstract: - The invention focuses on these hurdles and made the better version for effective cleaning without human interventions. Initially, starts with an entire device should be placed inside the rest room. The water connection should be made available to the cleaning device it should be carried out manually. While, placing the device, it is in the stowed position, wherein the attachments are not extended to operation. The device has the battery which is rechargeable is initiated by the switching on the device. This device has three level of arrangements of components. Top level for spraying water, middle level for cleaning and the bottom level to spray hot air. The operation also being carried out as per the different levels, and a controller unit takes care the operation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042047 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD OF MANUFACTURING HYBRID COMPOSITE

(51) International classification	:C01G55/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr.BALAJI.D</b>
(32) Priority Date	:NA	Address of Applicant :KPR INSTITUTE OF ENGINEERING
(33) Name of priority country	:NA	AND TECHNOLOGY, ARASUR, COIMBATORE, TAMIL
(86) International Application No	:NA	NADU, INDIA-641407. Tamil Nadu India
Filing Date	:NA	<b>2)Mrs.V.BHUVANESWARI</b>
(87) International Publication No	: NA	<b>3)Mr.N.VIGNESHKUMAR</b>
(61) Patent of Addition to Application Number	:NA	<b>4)Mr.S.N.DINESH</b>
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	<b>1)Dr.BALAJI.D</b>
Filing Date	:NA	<b>2)Mrs.V.BHUVANESWARI</b>
		<b>3)Mr.N.VIGNESHKUMAR</b>
		<b>4)Mr.S.N.DINESH</b>
		<b>5)Mr.LOKESH.M</b>
		<b>6)Mr.RAMANATHAN.N</b>
		<b>7)Mr.R.RAJESHKUMAR</b>
		<b>8)Mr.SABARI.C.K</b>

(57) Abstract :

Abstract: - The invention is to develop alternative material to metals which is composites, so many researches is going on around the globe. These composites are not completely in par with metals in terms of strength. So, the present invention is using the nano-technology by mixing the metal with natural high strength ceramic material is added. It compensates strength, but unable to add more owing to these materials are brittle in nature. The experiment should be made to identify the perfect mixture of metal alloys and natural materials. It needs to be identified by physical iteration in terms of proper mixing of it then it has to be made and experimented.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042048 A

(19) INDIA

(22) Date of filing of Application :28/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD OF SOFT METAL 3D PRINTING AND WELDING THEREOF

(51) International classification :B23K26/0648  
(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)Dr. BALAJI. D**

Address of Applicant :KPR INSTITUTE OF ENGINEERING  
AND TECHNOLOGY, ARASUR, COIMBATORE-641407,  
TAMILNADU, INDIA. Tamil Nadu India

**2)Mr. T. KANNAN**

**3)Mr. N. VIGNESHKUMAR**

(72)Name of Inventor :

**1)Dr. BALAJI. D**

**2)Mr. T. KANNAN**

**3)Mr. N. VIGNESHKUMAR**

**4)Mr. ARAVIND. S**

**5)Mr. ARUN GANDHI. R**

**6)Mr. BENICKS. R**

(57) Abstract :

Abstract: - The invention is the new version of 3D metal printer is developed with simple materials synthesisation along with normal deposition process. The post process is required to this method which is kept in the oven to evaporate the binder which is added to metal powder. The metal after evaporation of binder become harder than immediate after printing. It has to be examined for the internal defects. The other pivotal parameter to look into this printed metal is, it is not completely giving the hardness like that of the normal metal of same grade which are in existence. So, it is mandatory to selected the best method of joining. The assessment is made amongst the better one is welding due its versatility. The major welding method which supports the entire process in smother way is friction stir welding.

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

(54) Title of the invention : A PROCESS FOR DIAGNOSTIC ASSAY FOR PORCINE CIRCOVIRUS-2 INFECTION

(51) International classification	:C12N 7/00	(71)Name of Applicant : <b>1)Dr. J. B. Rajesh</b> Address of Applicant :Babysadanam, Railway Bridge Road, Neyyattinkara PO, Thiruvananthapuram, Kerala: 695121 Kerala India
(31) Priority Document No	:NA	<b>2)Dr. Swaraj Rajkhowa</b>
(32) Priority Date	:NA	<b>3)Dr. Umesh Dimri</b>
(33) Name of priority country	:NA	<b>4)Dr. Hridayesh Prasad</b>
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. J. B. Rajesh</b>
(61) Patent of Addition to Application Number Filing Date	:NA :NA	<b>2)Dr. Swaraj Rajkhowa</b>
(62) Divisional to Application Number Filing Date	:NA :NA	<b>3)Dr. Umesh Dimri</b> <b>4)Dr. Hridayesh Prasad</b>

(57) Abstract :

The present disclosure relates to a process for diagnostic assay for porcine circovirus-2 infection. The Porcine circovirus-2 (PCV2) is an emerging pathogen of porcine farming. PCV2 is a no enveloped circular single-stranded deoxyribonucleic acid (DNA) virus. PCV2 infection produces variety clinical symptoms and thus causes huge economic loss. A Loop mediated isothermal amplification (LAMP) is used to detect a variety of pathogenic microorganisms. However, a LAMP is developed for detection of PCV2. Primers used for LAMP are designed using conserved region of PCV2 sequences available in a database. The LAMP assay is developed by standard protocol including determination sensitivity and specificity of the assay. The LAMP assay provides a rapid, sensitive, reliable way to detect PCV2 and are used for the epidemiological investigation of PCV2.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042176 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : COMPRESSIBLE FUEL CARRIER

(51) International classification :H01M8/0271  
(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)Mr. Puneeth Kumar N**

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, CMR Institute of Technology, #132, AECS Layout, IT Park Road, Kundalahalli, Bengaluru - 560037 Karnataka India

**2)Dr. Manjunatha.B**

**3)Benki Snehal**

**4)Ranjini Narasimha**

**5)Venkatesh Naik**

**6)Narendra N**

(72)Name of Inventor :

**1)Mr. Puneeth Kumar N**

**2)Dr. Manjunatha.B**

**3)Benki Snehal**

**4)Ranjini Narasimha**

**5)Venkatesh Naik**

**6)Narendra N**

(57) Abstract :

The primary objective of the invention is to provide a solution to those commuters - who live in remote countryside, hill locked ridges and cultivate and work in Plantations, in downhill slopes, where no re-fueling Stations are available and cannot even be set up, because of geographical location adversities - by developing a user-friendly and collapsible container for a liquid fuel. The container will save much space when stored empty in the collapsed condition. The container is lightweight, sturdy and durable so that it will stand repeated usage, and relatively inexpensive to manufacture. It can be made of HPDE material, which is light in weight and durable. It is easy to carry in a passenger driven car or jeeps or even in a two-wheeler. It comes with a spout making it easier for direct filling of the fuel into the fuel tank of the vehicle. It has a supportive outer covering which absorbs low heat. The inner carrier is transparent, making it easier to know the remaining level of the fuel. The cap is strong and does not allow air to go inside easily. Due to the design, the carrier can be compressed to the level of the fuel present so that there is no space left for the air to occupy and react with the fuel. The product occupies minimum space and gives maximum storage capacity. Gauging of fuel is easy, as each collapsed pleat indicates the vacant position of the fuel, correspondingly indicating the remaining fuel in the tank, without taking the help of any other technology. The fuel tank is vertically collapsible, thus occupying less space in a vehicle.

No. of Pages : 9 No. of Claims : 6



(54) Title of the invention : A PEDAL POWERED FOLDABLE BICYCLE FOR ENHANCED MOBILITY

(51) International classification :B62M7/08  
 (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)Dr.D.MURUGANANDAM**

Address of Applicant :Plot No.28, Jagajeeva Ram Nagar, Selai Yur (Post), Chennai-600073, TamilNadu, India. Tamil Nadu India

**2)Dr.JJAYAPRIYA****3)Dr.P.K.CHIDAMBARAM****4)RITICKA.K.C****5)Dr.NGANGBAM PHALGUNI SINGH****6)REMYA.V****7)KARTHIK.V****8)KUMARAN BHARATHEEDASAN****9)Dr.CHAYAN PAUL****10)RAJALAKSHMIS****11)SARALADEVY.R****12)SRIKANTH SATHIYANARAYANAN TATA****13)SELVAKUMAR. R****14)THIRUNAVUKKARASU. J****15)Dr.SHRUTI SUMAN****16)Dr.TRIPTI SHARMA****17)SANTHOSH GANAPATHY**

## (72)Name of Inventor :

**1)Dr.D.MURUGANANDAM****2)Dr.JJAYAPRIYA****3)Dr.P.K.CHIDAMBARAM****4)RITICKA.K.C****5)Dr.NGANGBAM PHALGUNI SINGH****6)REMYA.V****7)KARTHIK.V****8)KUMARAN BHARATHEEDASAN****9)Dr.CHAYAN PAUL****10)RAJALAKSHMIS****11)SARALADEVY.R****12)SRIKANTH SATHIYANARAYANAN TATA****13)SELVAKUMAR. R****14)THIRUNAVUKKARASU. J****15)Dr.SHRUTI SUMAN****16)Dr.TRIPTI SHARMA****17)SANTHOSH GANAPATHY**

## (57) Abstract :

1.) The present invention comprises of a fork frame (1) with straight or plain handle bar (2) and front wheel (3) and a body frame (4) consisting of the top tube (5), seat tube (6) , chain stays (7) which connects to the front frame (1) and the rear wheel tyre (8). The fork frame (1) consists of hook (9) like structure attached to the fork frame (1) and a hook holder (10) attached to the the body frame (4) which connects the fork frame (1) with the body frame (4). The front wheel is smaller compared to the rear wheel to, easy driving and to support the frame in weight balance and for convenient movement of bicycle.

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

(54) Title of the invention : OPTICAL WAVEGUIDE-BASED ULTRA-SENSITIVE REFRACTIVE INDEX SENSOR REALIZED BY SHINING A MATHIEU-GAUSS BEAM

(51) International classification	:G01K11/3206
(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)Dr. Arijit Datta**

Address of Applicant :Dr. Arijit Datta, Assistant Professor,  
Dept. of Electrical and Electronics Engineering, CMR Institute of  
Technology, AECS Layout, Bengaluru-560037 Karnataka India

(72)Name of Inventor :

**1)Dr. Arijit Datta**

(57) Abstract :

Inquisition in the properties of non-Gaussian beam-based optical devices has seen a recent resurgence owing to several high-order waveguide modes as supported by the platform. The present invention explores the notion and efficacy of harnessing the advantages of Mathieu-Gauss beam for the development of a highly sensitive fiber-optic refractive index sensor. The sensing system comprises of a multimode fiber which is decladded from the center to aptly carve the evanescent wave. The proposed refractometer relies on the theory of evanescent wave where the transmitted output power varies due to change in the refractive index of the cladding. As compared with the traditional sensor, the proposed refractive index sensor renders an admirable sensitivity of 796.9 dB/RIU (at sensing length of 14 mm) and 963.9 dB/RIU (at sensing length of 29 mm). Also, a commendable sensing resolution of around  $1.25 \times 10^{-5}$  RIU and  $1.03 \times 10^{-5}$  RIU is attained when the sensing length is 14 mm and 29 mm, respectively. Therefore such a nascent-class of beam called Mathieu-Gauss beam accelerates new possibilities in the field of fiber optic sensing and can be useful in various chemical and biological sensing needs.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042196 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : INTELLIGENT AUTONOMOUS NEWS DELIVERY KIOSK TERMINAL AND METHOD OF DELIVERING PREFERRED ARTICLES

(51) International classification :G06Q30/02  
(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)M.SIVAKAMI**

Address of Applicant :RESEARCH SCHOLAR(FT) DEPT.  
OF COMPUTER SCIENCE MADURAI KAMARAJ  
UNIVERSITY PALKALAI NAGAR MADURAI Tamil Nadu  
India

**2)P.KRISHNAVENI**

**3)Dr. M. THANGARAJ**

**4)P. ARUNA SARASWATHY**

(72)Name of Inventor :

**1)Dr. M. THANGARAJ**

**2)P. ARUNA SARASWATHY**

**3)M.SIVAKAMI**

**4)P.KRISHNAVENI**

(57) Abstract :

The present invention herein relates to an intelligent autonomous news delivery kiosk terminal, particularly an informative system configured to deliver and suggest the articles of interest according to the user preference, in real-time; more particularly better and improved displaying of news report by considering and analyzing the profiles of user in the absence of direct preference, autonomously, comprising: a plurality of existence knowledge engineering tool, said existence knowledge engineering tool maintained the data record pertinent to both news [102a], user [102b] and domain [102c] existence knowledge engineering tools, an incremental news suggestion module [104], said incremental news suggestion module [104] updates the news article regularly without increasing the complexity of the system; and a suggestion module [105], said suggestion module [105] displays the news article in the display screen [203] of said intelligent autonomous news delivery kiosk terminal [100]. FIGURE 1

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042208 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : UIMP-UNMANNED AERIAL VEHICLE: UNIVERSAL SOLUTION FOR INSPECTION, MAINTENANCE AND MONITORING OF POWER PLANTS, SUBSTATIONS, TRANSMISSION LINES, DISTRIBUTION LINES, PROCESS INDUSTRIES, SOLAR AND WIND POWER PLANTS BY USING UNMANNED AERIAL VEHICLE

(51) International classification	:B64C 39/02	(71)Name of Applicant : <b>1)Dr. GOPALA VENU MADHAV</b> Address of Applicant :ANURAG GROUP OF INSTITUTIONS, VENKATAPUR, GHATKESAR, MEDCHAL DIST., TELANGANA, INDIA-500 088 E-mail: erchankya@gmail.com Telangana India
(31) Priority Document No	:NA	<b>2)CHANDRA SHEKAR CHENNAMALLA</b>
(32) Priority Date	:NA	<b>3)VIJAYLAXMI LENDALE</b>
(33) Name of priority country	:NA	<b>4)ANIL KUMAR BOINI</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. GOPALA VENU MADHAV</b>
(87) International Publication No	: NA	<b>2)CHANDRA SHEKAR CHENNAMALLA</b>
(61) Patent of Addition to Application Number	:NA	<b>3)VIJAYLAXMI LENDALE</b>
Filing Date	:NA	<b>4)ANIL KUMAR BOINI</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Patent Title: UIMP-UNMANNED AERIAL VEHICLE: UNIVERSAL SOLUTION FOR INSPECTION, MAINTENANCE AND MONITORING OF POWER PLANTS, SUBSTATIONS, TRANSMISSION LINES, DISTRIBUTION LINES, PROCESS INDUSTRIES, SOLAR AND WIND POWER PLANTS BY USING UNMANNED AERIAL VEHICLE ABSTRACT Our Invention UIMP-UNMANNED AERIAL VEHICLE is a inspecting, maintaining, and monitoring of topographically complex infrastructure of electrical power generating plants, substations, transmission lines, distribution lines, and all kinds of process industries, wind and solar power plants and many other applications. The one-stop-solution which is cost effective and saves time is utilizing the Unmanned Aerial Vehicle (UAV) or Drone for inspecting, maintaining and monitoring of infrastructure of various applications mentioned. The UAV is used along with detachable or attachable high resolution camera or required instrument or equipment based on the application chosen or problem to be addressed like mentioning few detecting the faults/defects in the transmission lines, distribution lines, substations, power generating plants; to detect micro level cracks in the wind mill, snail trails in the solar panels, faults or leakages in the piping of all kinds of Process Industries including oil, gas, petrochemical industries.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042272 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL INTERDIGITAL BAND PASS FILTENNA FOR L-BAND & S-BAND WIRELESS APPLICATIONS

(51) International classification :H04W84/12  
(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)Ch Amarnatha Sarma**

Address of Applicant :Research Scholar, Department of ECE,  
Koneru Lakshmaiah Education Foundation, AP, India Andhra Pradesh India

**2)Syed Inthiyaz**

**3)B T P Madhav**

**4)S S Mohan Reddy**

**5)K Aruna Kumari**

(72)Name of Inventor :

**1)Ch Amarnatha Sarma**

**2)Syed Inthiyaz**

**3)B T P Madhav**

**4)S S Mohan Reddy**

(57) Abstract :

In this paper work a novel approach for filtenna design using Interdigital band pass filter with inset feed patch antenna. In this, interdigital filter is operated in bandpass filtering operation with 1GHz band width from 2 to 3 GHz. The inset elliptical patch antenna is used having wide band bandwidth up to 8GHz. The filtenna made with both interdigital bandpass filter and elliptical patch. The resultant filtenna is having -10db band width from 1.5GHz to 3.5GHz. This 2 GHz band width covers the upper L-band and lower S-band applications that covers WLAN and GPS and other application. The inset feed improves the reflection coefficient and vias are included to improve stop band characteristics and to achieve Interdigital operation. The final structure size is 0.580 X 0.340 on FR4 substrate with 1.6 mm height. The summated results show a band width of 1.8 GHz from 1.6 to 3.4 GHz that cover applications in upper L-band and lower S-band in EM spectrum. The VSWR and radiation patterns also simulated. Key words: Filtenna, Interdigital filter, Elliptical patch, Inset feed, Vias and Band pass filter.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042273 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ICML- DATA CLEANING: INTELLIGENT CLOUD DATA CLEANING (UNUSED DATA, USED DATA) USING MACHINE LEARNING PROGRAMMING.

(51) International classification	:G06N 20/00	(71)Name of Applicant : <b>1)Dr. T. SATYANARAYANA MURTHY (ASSOCIATE PROFESSOR)</b> Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING BAPATLA ENGINEERING COLLEGE, BAPATLA- 522101, GUNTUR, ANDHRA PRADESH, INDIA. E-mail: satyanarayanamurthy.teki@becbapatla.ac.in +91-9025887845 Andhra Pradesh India
(31) Priority Document No	:NA	<b>2)Mr. KUMARARAJA JETTI (ASSISTANT PROFESSOR)</b>
(32) Priority Date	:NA	<b>3)Mr. R. VEERAMOHANA RAO (ASSISTANT PROFESSOR)</b>
(33) Name of priority country	:NA	<b>4)Mr. P. NANDA KISHORE (ASSISTANT PROFESSOR)</b>
(86) International Application No	:NA	<b>5)Dr. N. MOHAN KRISHNA VARMA (ASSOCIATE PROFESSOR)</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. T. SATYANARAYANA MURTHY (ASSOCIATE PROFESSOR)</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Mr. KUMARARAJA JETTI (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>3)Mr. R. VEERAMOHANA RAO (ASSISTANT PROFESSOR)</b>
(62) Divisional to Application Number	:NA	<b>4)Mr. P. NANDA KISHORE (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>5)Dr. N. MOHAN KRISHNA VARMA (ASSOCIATE PROFESSOR)</b>

(57) Abstract :

Our invention • CIML- Data Cleaning is a system and article of manufacture enabling adapting to a shift in document content and also the instructions for receiving at least one labelled mapped seed document receiving unlabeled documents receiving at least one predetermined cost factor training data a transductive classifier using the at least one predetermined cost factor calculated data and at least one seed document and the unlabeled documents. The invention also classifying the unlabeled documents having a confidence level above a predefined threshold into a plurality of indexing and categories using the classifier reclassifying at least some of the categorized documents into the categories using the classifier and outputting identifiers of the categorized documents to at least one of a user another system and another process. The invented systems and articles of also manufacture for separating documents are also presented and the systems and articles of manufacture for document searching are also presented a business and other information service provides data cleansing to correct and update both domestic and global addresses. The invented system a integrate and combination of processes generates cleansed data for input into a matching and mapping process and the matching, the mapping process matches information about a business. The invented technology data cleaning process includes the steps of validating data loaded from at least two source systems appending the validated data to a normalized data cleaning repository selecting the priority of the source system creating a clean database; loading the consistent, normalized, and cleansed data from the clean database into a format required by data systems and software tools using the data. The invented technology also creating reports and updating the clean database by a user without updating the source systems. The data cleaning process distributed and collecting, analyzing data from available sources for optimization models enabling consistent analysis. The invented technology the data cleaning process further provides complete auditability to the inputs and outputs of data systems and software tools that use a dynamic data set.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042280 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : COMPUTER-IMPLEMENTED SYSTEM AND METHOD TO PERFORM STRUCTURAL OPTIMIZATION OF COMPOSITE PROPELLER BLADE

(51) International classification	:B64C29/0033
(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)Dr.M.L.PAVAN KISHORE**

Address of Applicant :Faculty of Science and Technology,  
ICFAI Foundation for Higher Education-IFHE Donthanapally,  
Shankarapalli Road, Hyderabad-501504, Telangana, India.  
Telangana India

**2)N.LASYA PRIYA**

(72)Name of Inventor :

**1)Dr.M.L.PAVAN KISHORE**

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a computer-implemented system to perform structural optimization of a composite ply arrangement of propeller blade, comprising a computing device comprising a structural optimization module configured to determine an optimized stacking sequence of composite propeller blades, the optimized stacking sequence obtained from the structural optimization module by performing design phases, whereby the design phases comprising a concept design synthesis phase, a design fine tuning phase, and a Ply stacking sequence optimization phase, the structural optimization module configured to incorporate one or more manufacturing constraints through the design phases. Fig. 1

No. of Pages : 61 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042281 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR SENSOR BASED PROTECTION OF LOADING FRAME ON A CONCRETE SAMPLE

(51) International classification :G01B21/32  
(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)KURAPATI VENKATA NARASIMHA RAO**

Address of Applicant :Professor, Department of Mechanical Engineering, KLEF (Deemed to be University), Greenfields, Vaddeswaram, Guntur, Andhra Pradesh-522502, India. Andhra Pradesh India

(72)Name of Inventor :

**1)SIVA KRISHNA ANNABATHINA**

**2)SRIHARI SADUWALE**

**3)DAMARLA RAMESH BABU**

**4)KURAPATI VENKATA NARASIMHA RAO**

**5)KBVSR SUBRAHMANYAM**

**6)RANGA RAO VUMMANENI**

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system and method for sensor based protection of loading frame on a concrete sample. The system comprising: a plurality of load alignment sensors(102a-102d) connected to a processing device(104), the plurality of sensors continuously detect the x-y-z axes of a concrete sample with respect to the loading frame to provide a load cell alignment data, the processing device(104) aggregating, processing and analyzing the load cell alignment data values obtained from the plurality of load alignment sensors to trigger the processing device(104) when the load cell alignment data values exceeds or decreases from its threshold value to provide an alert to a first computing device(106) and second computing device(108); and the plurality of load cell alignment sensors, a power supply unit(103), the processing device(104), the first computing device(106) and the second computing device(108) are interconnected by a network(110). FIG.1

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042367 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A DISINFECTING APPARATUS MOUNTED IN AN AUTOMOBILE FOR DISINFECTING AN INTERIOR OF THE AUTOMOBILE

(51) International classification	:A61L2/22	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Sarunya Health Sciences (OPC) Private Limited</b>
(32) Priority Date	:NA	Address of Applicant :#1 (A), K.I.A.D.B Industrial Area,
(33) Name of priority country	:NA	Doddaballapur, Bangalore, Karnataka, India 561203 Karnataka
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Mrs. Soumya Nikhil Dayakar</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A disinfecting apparatus (10) for sanitizing an interior of an automobile (24) is disclosed. The disinfecting apparatus (10) comprises a frame (14) having a Ultraviolet (UV) light source (16). The frame (14) mounts at a roof (26) facing a seating area of the automobile (24). The disinfecting apparatus (10) comprises a sensor (20) configured for detecting presence of occupants in the automobile (24). The UV light source (16) operates upon detecting that occupants are not present in the automobile (24). The UV light source (16) operates for a predetermined time period and sanitizes the interior of an automobile (24). The disinfecting apparatus (10) comprises a buzzer (22) that generates a loud noise upon detecting presence of the occupants during the sanitization of the interior of automobile (24) by the UV light source (16). [To be published with FIG. 2]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042380 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PANDEMIC PREVENTION SYSTEM

(51) International classification :G06Q50/22  
(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)Dr. SUVARNA NANDYAL**

Address of Applicant :Professor & HOD, Department of Computer Science and Engineering, Poojya. Doddappa. Appa. College of Engineering, KALABURGI - 585102, KARNATAKA, INDIA Karnataka India

**2)Mr. SANJEEV KUMAR ANGADI**

**3)Mrs. BHAVANA. MAALE**

**4)Mrs. SUVARNA LAXMIKANT KATTIMANI**

**5)Mr. NIKHIL S TENGLI**

**6)Mr. SHARANABASAPPA VH**

**7)Mrs. VIJAYALAXMI S.PATIL**

**8)Mrs. HEENA KOUSER GOGI**

**9)Mr. SOMASHEKHAR S.DHANYAL**

**10)Mr. ROHIT KIRAN GAVALI**

**11)Dr. BHUSHAN EKNATHRAO PARASKAR**

(72)Name of Inventor :

**1)Dr. SUVARNA NANDYAL**

**2)Mr. SANJEEV KUMAR ANGADI**

**3)Mrs. BHAVANA. MAALE**

**4)Mrs. SUVARNA LAXMIKANT KATTIMANI**

**5)Mr. NIKHIL S TENGLI**

**6)Mr. SHARANABASAPPA VH**

**7)Mrs. VIJAYALAXMI S.PATIL**

**8)Mrs. HEENA KOUSER GOGI**

**9)Mr. SOMASHEKHAR S.DHANYAL**

**10)Mr. ROHIT KIRAN GAVALI**

**11)Dr. BHUSHAN EKNATHRAO PARASKAR**

(57) Abstract :

A pandemic prevention system comprises a thermal scanning module provided at the entrance of an enclosed space of a room to measure the temperature of a person upon entering the room; a face recognition module comprises a camera to detect that a person at the entrance of the room is wearing a face mask covering the nose and mouth. When the temperature of the person is below a threshold value a signal is transmitted to a microcontroller and the person is wearing the face mask, the face recognition module transmits signal to the microcontroller to open the door. At the entrance the person stands for a while and the microcontroller sprays a mist of sanitizer to disinfect the outer body and clothes of the person. The room or enclosed space is provided with a plurality of cameras to closely monitor the movements of the person such that when the person inside the space lifts up or removes the face mask for more than a threshold time value, a signal is transmitted to the microcontroller providing with a location of the person. A plurality of thermal scanning modules are installed at some specified distances and during any moment inside the space or room, if the temperature of the person rises, a signal is transmitted to the microcontroller with an exact location of the person.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042414 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CUSTOMIZED PLACEMENT TRAINING ASSISTANCE FOR STUDENTS USING ARTIFICIAL INTELLIGENCE

<p>(51) International classification :G06Q50/02</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><b>1)Dr. Parashuram Baraki</b> Address of Applicant :Professor and HOD Department of CS&amp;E,Proudhadevaraya Institute of Technology Hosapete , Affiliated to VTU Belagavi , Dist: Ballari Karnataka India</p> <p><b>2)Veena R S</b></p> <p><b>3)Mr. Vikram Shirol</b></p> <p><b>4)Mr.Ravindra R Patil</b></p> <p><b>5)Mr. Basavaraj K Muragod</b></p> <p><b>6)Swetha Gadde</b></p> <p><b>7)Mrs. Shobha R</b></p> <p><b>8)Kokila S</b></p> <p><b>9)Mr. DILEEP J</b></p> <p><b>10)Chillara Anil Kumar</b></p> <p><b>11)Dr.Piyush Kumar Pareek</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Parashuram Baraki</b></p> <p><b>2)Veena R S</b></p> <p><b>3)Mr. Vikram Shirol</b></p> <p><b>4)Mr.Ravindra R Patil</b></p> <p><b>5)Mr. Basavaraj K Muragod</b></p> <p><b>6)Swetha Gadde</b></p> <p><b>7)Mrs. Shobha R</b></p> <p><b>8)Kokila S</b></p> <p><b>9)Mr. DILEEP J</b></p> <p><b>10)Chillara Anil Kumar</b></p> <p><b>11)Dr.Piyush Kumar Pareek</b></p>
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(57) Abstract :

The invention discloses a system capable of understanding the interest of students in the initial year of graduation by using SWOT model with the help of a well structured questionnaire, The data collected will be converted to information by AI Module stating the interest of student and a learning road map in the interested domain of student for getting the desired job in the journey towards the end of graduation. This Invention will guide students to achieve their goals with concentric development and customized training assistance.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042415 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CIRCULAR AND TRIANGULAR SRR BASED MICROSTRIP BAND PASS FILTER FOR SUB 6 GHZ APPLICATIONS

(51) International classification	:H01Q17/008	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)K V Vineetha</b>
(32) Priority Date	:NA	Address of Applicant :Antennas and Liquid Crystals Research
(33) Name of priority country	:NA	Center, Electronics and Communication Engineering Department,
(86) International Application No	:NA	Koneru Lakshmaiah Education Foundation, AP, India Andhra
Filing Date	:NA	Pradesh India
(87) International Publication No	: NA	<b>2)M Siva Kumar</b>
(61) Patent of Addition to Application Number	:NA	<b>3)B T P Madhav</b>
Filing Date	:NA	<b>4)Y Usha Devi</b>
(62) Divisional to Application Number	:NA	<b>5)M C Rao</b>
Filing Date	:NA	<b>6)S S Mohan</b>
		(72)Name of Inventor :
		<b>1)K V Vineetha</b>
		<b>2)M Siva Kumar</b>
		<b>3)B T P Madhav</b>
		<b>4)Y Usha Devi</b>
		<b>5)M C Rao</b>
		<b>6)S S Mohan</b>

(57) Abstract :

This work presents a compact novel microstrip BPF with Circular and Triangular type SRR which are place at the center of the microstrip BPF. By the implementation of SRR unit cells in the band pass filter, the filter resonates with the center frequency of 2.4, 4.5 and 5.2 GHz which are used for wireless communication. The Circular type SRR unit cells deliver high performance value than the Triangular type SRR unit cell in term of its quality factor, scattering parameter and group delay values. The proposed band pass filter with 3 Circular SRR unit cells having the s11 values of -24.3 dB, -24.7 dB and -16 dB with the minimum s21 value of -0.7 dB, -1.35 dB and -2.18 dB with the frequency value of 2.4, 4.5 and 5.2 GHz. The proposed band pass filter having minimum group delay and good quality factor value. The simulated results having good agreement with the measured results. Key words: Circular SRR, Triangular SRR, Band Pass Filter, Quality Factor.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042417 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN IOT BASED HEALTH MONITORING SYSTEM

(51) International classification	:A61B5/6817	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr.Thatavarthi Satish</b>
(32) Priority Date	:NA	Address of Applicant :# 4-164-16C, Ward Now, Zone 3, Ganesh Nagar, Tadepalligudem-534101, Andhra Pradesh, India
(33) Name of priority country	:NA	Andhra Pradesh India
(86) International Application No	:NA	<b>2)Miranji Katta</b>
Filing Date	:NA	<b>3)Emandi Jagadeeswara Rao</b>
(87) International Publication No	: NA	<b>4)Dr.Tarigoppula V S Sriram</b>
(61) Patent of Addition to Application Number	:NA	<b>5)Movva Pavani</b>
Filing Date	:NA	<b>6)Kamarajugadda Kishore Kumar</b>
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr.Thatavarthi Satish</b>
		<b>2)Miranji Katta</b>
		<b>3)Emandi Jagadeeswara Rao</b>
		<b>4)Dr.Tarigoppula V S Sriram</b>
		<b>5)Movva Pavani</b>
		<b>6)Kamarajugadda Kishore Kumar</b>

(57) Abstract :

ABSTRACT: Title: An IoT Based Health Monitoring System The present disclosure proposes an IoT based health monitoring system 100 which comprises a wearable health monitoring device 101 which comprises a power supply unit 102 that supplies energy to the wearable health monitoring device 101, a sensor unit 104 which is configured with plurality of sensors to collect health parameter of a patient, a microcontroller unit 103 which is configured to collect the detected health parameters from the sensor unit 104 and transmit the collected parameters for storage through internet, a remote server configured with a health processing and storing unit 105 that receives the health parameters from the microcontroller unit 103 through a wireless transmitter, stores and processes the parameters for further analysis and finally an external device 106 to access the stored and processed health parameters from the remote server. The wearable health monitoring device 101 incorporates GPS to locate the patient. The IoT based health monitoring system 100 allows remote access of the health information of the patient.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042471 A

(19) INDIA

(22) Date of filing of Application :30/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PEARL MILLET DEHUSKER AND ASPIRATOR

(51) International classification	:A61M 1/00	(71)Name of Applicant : <b>1)DR. K. HEMALATHA</b> Address of Applicant :SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE, MADAGADIPET, PUDUCHERRY-605107, INDIA. Pondicherry India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. K. HEMALATHA</b>
(33) Name of priority country	:NA	<b>2)DR. V.S.K. VENKATACHALAPATHY</b>
(86) International Application No	:NA	<b>3)DR. K. VELMURUGAN</b>
Filing Date	:NA	<b>4)P. SATHIAPRATHAP</b>
(87) International Publication No	: NA	<b>5)M. GUNASEKAR</b>
(61) Patent of Addition to Application Number	:NA	<b>6)R. MANIKANDAN</b>
Filing Date	:NA	<b>7)K. NAVANITHAKRISHNAN</b>
(62) Divisional to Application Number	:NA	<b>8)S. ARULPRADEEP</b>
Filing Date	:NA	<b>9)R. RABIN RANITH</b>
		<b>10)A. EMIL GERARD</b>
		<b>11)V. PRABAGARAN</b>
		<b>12)A. BHARANCE KUMAR</b>

(57) Abstract :

Abstract: The dehusking of pearl millet is done in many ways. There are some machines when it comes to this but they are very costly as well as complexly designed. These machines can not be used for small scale use. By this process, separation can be done without breaking the ear head of the millet and also aspiration is easy. So, this means, anyone can easily invest on and operate this dehusker machine. Our product has three stages of setups which includes a thresher, a filter with sieve attached, and an aspirator. The first stage is threshing the millet after getting into through the hopper. Second is filtering off the husk which is unwanted. Finally, the third comes with an aspirator which is for grinding the dehusked millet pellets into pulverized form. A cam with an offset roller introduced to make linear vibration for filtering process. The machines power is motorized and transmitted through V- belt drives so it has more than 85% efficiency.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042483 A

(19) INDIA

(22) Date of filing of Application :30/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : THREE PORT BEAM SCANNED ANTENNA MODULE WITH RADOME ENCLOSURE FOR 5G BASE STATIONS

(51) International classification	:H01Q 1/42	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)KARTHIKEYA G. S</b>
(32) Priority Date	:NA	Address of Applicant :#76, SAHISHNA 1ST FLOOR
(33) Name of priority country	:NA	OPPOSITE TO ASTRO-VISION WEST ANJANEYA TEMPLE
(86) International Application No	:NA	STREET, BASAVANGUDI, BANGALORE - 560 004.
Filing Date	:NA	Karnataka India
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)KRISHNANANDA SHET</b>
Filing Date	:NA	<b>2)KARTHIKEYA G. S</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A three port beam scanned antenna module with radome enclosure for millimeter wave 5G base stations is disclosed. A tapered slot antenna integrated with commercially viable 3D-printed radome is disclosed, A three port antenna system is proposed to achieve a wide angular coverage in a compact size

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042525 A

(19) INDIA

(22) Date of filing of Application :30/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IMPROVEMENT IN HEAT TRANSFER RATE OF COOLANT BLENDS BY THE ADDITION OF NANO ALUMINIUM SILICATE

(51) International classification :F28D1/04  
(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)Dr. Barmavatu Praveen**

Address of Applicant :Assistant Professor Department of Mechanical Engineering Anurag Group of Institutions, Venkatapur, Medchal, Telangana, India Telangana India

**2)Mr. Yalagandala Akshay Kumar**

**3)Mr. Kunchala Krishna**

**4)Mr. Saikesh Erramshetty**

(72)Name of Inventor :

**1)Dr. Barmavatu Praveen**

**2)Mr. Yalagandala Akshay Kumar**

**3)Mr. Kunchala Krishna**

**4)Mr. Saikesh Erramshetty**

(57) Abstract :

In recent years, nanotechnology-based techniques have produced nano meter-scale particles smaller than 100 nm. Nanoparticles can be used to form a stable suspension and improve the thermal properties of the base fluid. Studies have shown the addition of small concentrations of metal or metal oxide nanoparticles to a fluid can improve its thermal conductivity value. Since nanofluids offer much greater heat absorbing and heat transfer properties compared to traditional working fluids. Then investigates recent developments in formulating a new class of engineering fluids containing small concentrations of suspended nanometre-scale particles. The presence of dispersed particles (metals, metal oxides and carbons) in working fluids can significantly improve their heat transfer characteristics. Present work is an evidence of improvement of working fluids with nano addition and comparative analysis with conventional fluids at a test rig of composite material developed compact heat exchanger. For this we have taken two different combinations of nanoparticles. Aluminium silicate (AL Sic) and magnesium oxide (MgO) nanoparticles are added to the base fluid (80% water + 20% ethylene glycol) at two concentrations 0.12% and 0.4% volume concentration considering the best pH for longer stability. Similarly, another combination with aluminium silicate and titanium oxide (TiO<sub>2</sub>) at the same volume concentrations of 0.12% and 0.4% in the base fluid is also prepared.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042558 A

(19) INDIA

(22) Date of filing of Application :30/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PUMPLESS EVAPORATIVE COOLER USING POROUS STRUCTURED MATERIAL

(51) International classification :F24F3/1417  
(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)Dr. R. VELRAJ**  
Address of Applicant :INSTITUTE FOR ENERGY  
STUDIES, COLLEGE OF ENGINEERING, GUINDY,  
CHENNAI 25 Tamil Nadu India  
**2)A.SUJATHA**  
(72)Name of Inventor :  
**1)Dr. R. VELRAJ**  
**2)A.SUJATHA**

(57) Abstract :

Evaporative cooling based humidifiers are widely used for space cooling in hot and dry weather conditions and also to achieve cool and humid air in applications like poultry to increase the productivity of hatching eggs, green house for providing comfortable weather conditions for plants and flower shop for maintaining its freshness. Humidifiers are of two types: Cooling padpump system and nozzlepump system and both these systems require a sump to store water. The sump serves as a place for mosquito-breeding which leads to infectious diseases. The continuous operation of the pump is also operational expensive. To mitigate these problems, a porous structured material such as Vermicompost which is having good water-storing ability is chosen as the cooling medium in the proposed evaporative cooling system. Conventional air-coolers requires continuous water supply to the pad or nozzle which in turn depends on the pump for the entire operation of the system. The proposed cooling set up using Vermicompost is soaked initially with water after which water is supplied as droplets through a drip system. This material is able to produce an average temperature drop of 5 to 8 depending upon the ambient temperature and relative humidity. This pump less cooling technology is an efficient method to provide passive thermal comfort and paves a way for sustainable cooling applications where air with higher humidity is of great importance.

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

(54) Title of the invention : ATM CASH WITHDRAWAL WITH SMART PHONE BASED AUTHENTICATION

(51) International classification :G07F19/20  
 (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)ANVEKAR, DINESH KASHINATH**

Address of Applicant :19, Halcyon Defence Enclave, Bagalur Cross, Sathnur, Bengaluru 562149 Karnataka, India Karnataka India

**2)MATHUR, VENKATESHA KRISHNA****3)SINGH, VIPULA****4)MADHUGIRI, SUDHA SRINIVAS****5)SIRI, SANGEETA KOTRAPPA****6)JADHAV, PRAKASH****7)DELAMPADY, SURESH****8)KUSUMA, VINAYA****9)VISHWANATH, APARNA****10)GANGAIAH, PRAVEEN****(72)Name of Inventor :****1)ANVEKAR, DINESH KASHINATH****2)MATHUR, VENKATESHA KRISHNA****3)SINGH, VIPULA****4)MADHUGIRI, SUDHA SRINIVAS****5)SIRI, SANGEETA KOTRAPPA****6)JADHAV, PRAKASH****7)DELAMPADY, SURESH****8)KUSUMA, VINAYA****9)VISHWANATH, APARNA****10)GANGAIAH, PRAVEEN****(57) Abstract :**

The subject matter of this invention is providing a means for speeding up cash withdrawal with minimal physical contact of a cash dispensing machine (220,420) by users. According to our invention, a user of ATM(210) starts an App (application program) in a smart phone(245,445), and connects wirelessly with the server in the said cash dispensing machine, and sends to the server a request for cash withdrawal along with authentication information. After authentication, the server sends an OTP (One Time Password) to the smart phone of the user, and the OTP is sent to the server by the user via the App. After verifying the OTP, the server sends a QR code image (300) with encoded information about the approved cash amount to the smart phone of the user. The user shows QR code image to the camera (225,425) of the cash dispensing machine, which after authentication dispenses the approved amount (450) to the user.

No. of Pages : 17 No. of Claims : 3

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF ELECTRICALLY-SENSITIVE POLYACRYLAMIDE-GRAFTED-GUM TRAGACANTH COPOLYMER FOR ELECTRO-MODULATED TRANSDERMAL DRUG DELIVERY

(51) International classification	:C07D271/07	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. Raghavendra V. Kulkarni</b>
(32) Priority Date	:NA	Address of Applicant :BLDEA™s SSM College of Pharmacy
(33) Name of priority country	:NA	& Research Centre, Vijayapur 586 103, Karnataka, India
(86) International Application No	:NA	Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. Raghavendra V. Kulkarni</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Mr. Ravindra P. Birajdar</b>
Filing Date	:NA	<b>3)Dr. Krishnamacharya G. Akamanchi</b>
(62) Divisional to Application Number	:NA	<b>4)Dr. Mallanagouda S. Biradar</b>
Filing Date	:NA	<b>5)Dr. Kusal. K. Das</b>

(57) Abstract :

PHARMACEUTICAL COMPOSITION OF ELECTRICALLY-SENSITIVE POLYACRYLAMIDE-GRAFTED-GUM TRAGACANTH COPOLYMER FOR ELECTRO-MODULATED TRANSDERMAL DRUG DELIVERY ABSTRACT: The present invention relates to development of drug loaded electro-modulated transdermal delivery systems (EMTDS) by using polyacrylamide-grafted-gum tragacanth (PAAm-g-GT) copolymer for transdermal delivery of the drugs. A copolymeric hydrogel of PAAm-g-GT was used as drug reservoir and glutaraldehyde cross-linked blend films of poly(vinyl alcohol) and GT were used as rate controlling membranes (RCMs). More particularly it relates to the synthesis of electrically-sensitive polyacrylamide-grafted-gum tragacanth copolymer by free radical polymerization technique in the nitrogen ambience to synthesize an electrically-sensitive PAAm-g-GT. Quetiapine fumarate loaded electro-modulated transdermal delivery systems (EMTDS) were developed using polyacrylamide-grafted-gum tragacanth (PAAm-g-GT) copolymer. Drug permeation experiments in the absence of electric stimulus resulted in miniature quantity of drug release against increased permeation as observed in the presence of electric stimulus. An increased flux value of three times was recorded under application of electric stimulus. The quetiapine permeation was noticeably increased upon increase in electric stimulus. Increased and decreased drug permeation was reported for on • and off • electric stimulus respectively in a pulsatile pattern. The skin histopathology findings revealed the changes in the skin structure after application of electrical stimulus. The PAAm-g-GT copolymer is a competent biomaterial that can be used for development of electro-modulated transdermal delivery systems for on-demand drug delivery.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042657 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : CNIB-WATER MANAGEMENT TECHNOLOGY: WATER COLLECTION AND NOTIFICATION USING IOT BASED TECHNOLOGY.

(51) International classification	:H04L	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. G REDDY BABU (PROFESSOR)</b>
(32) Priority Date	:NA	Address of Applicant :Address-1: DEPT. OF CIVIL
(33) Name of priority country	:NA	ENGINEERING GUDLAVALLERU ENGINEERING
(86) International Application No	:NA	COLLEGE GUDLAVALLERU 521356, KRISHNA Dt., A.P,
Filing Date	:NA	INDIA. Address-2: G. REDDY BABU, H NO; 8-315/9 2ND
(87) International Publication No	: NA	FLOOR,7TH LANE, RAJENDRA NAGAR GUDIVADA
(61) Patent of Addition to Application Number	:NA	521301, KRISHNA Dt., A.P, INDIA. E-mail:
Filing Date	:NA	greddybabu66@gmail.com , Mobile No:9133705762 Andhra
(62) Divisional to Application Number	:NA	Pradesh India
Filing Date	:NA	<b>2)Dr. B. MADHUSUDANA REDDY (ASSISTANT</b>
		<b>PROFESSOR)</b>
		<b>3)Dr. TEJASWINI NIKHIL BHAGWAT (ASSOCIATE</b>
		<b>PROFESSOR)</b>
		<b>4)Dr. N. VENKATA RAMANA (ASSOCIATE</b>
		<b>PROFESSOR)</b>
		<b>5)Dr. R. BALAKRISHNA (PROFESSOR)</b>
		(72)Name of Inventor :
		<b>1)Dr. G REDDY BABU (PROFESSOR)</b>
		<b>2)Dr. B. MADHUSUDANA REDDY (ASSISTANT</b>
		<b>PROFESSOR)</b>
		<b>3)Dr. TEJASWINI NIKHIL BHAGWAT (ASSOCIATE</b>
		<b>PROFESSOR)</b>
		<b>4)Dr. N. VENKATA RAMANA (ASSOCIATE</b>
		<b>PROFESSOR)</b>
		<b>5)Dr. R. BALAKRISHNA (PROFESSOR)</b>

(57) Abstract :

Patent Title: CNIB-Water Management Technology: WATER COLLECTION AND NOTIFICATION USING IOT- BASED TECHNOLOGY. Abstract Our Invention CNIB-Water Management Technology • is a System consists of method for monitoring, mapping integrating and auto controlling water consumption in a IoT-based system are disclosed using more than one advanced nano sensors for generating signals indicative of the operation thereof. The invented Technology design and develop the unique interface modules are provided as breaker circuits for receiving the generated signals and a fluid control device is operable for threshold limit value the water consumption. The invented technology display board, motherboard receives the unique interface unit and provides IoT- based communication available sensor and processor and also signals from the various sensors are supplied to a controller, which provides signals to status indicators and also operates to provide alarm signals via network interfaces to remote locations. The invented technology is designed to shut off the water supply to the water unit and to shut off either the electrical supply.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042678 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : HAND HELD AND STANDALONE DEVICE AND METHOD OF PROVIDING ACCURATE DIAGNOSTIC INFORMATION

(51) International classification	:G01N 21/27	(71)Name of Applicant : <b>1)Dr. M. THANGARAJ</b> Address of Applicant :PROFESSOR & HEAD DEPT. OF COMPUTER SCIENCE MADURAI KAMARAJ UNIVERSITY PALKALAI NAGAR MADURAI Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	<b>2)M.SIVAKAMI</b>
Filing Date	:NA	<b>3)P. ARUNA SARASWATHY</b>
(87) International Publication No	: NA	<b>4)P.KRISHNAVENI</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. M. THANGARAJ</b>
(62) Divisional to Application Number	:NA	<b>2)M.SIVAKAMI</b>
Filing Date	:NA	<b>3)P. ARUNA SARASWATHY</b>
		<b>4)P.KRISHNAVENI</b>

(57) Abstract :

The present invention herein relates to a diagnostic supportive system, particularly a hand-held and stand-alone system providing assistance to the researchers and physician in better diagnosis a disease, accurately, in real-time; more particularly aiding the researchers and physician in understanding about nature of disease, characteristics and appropriate drug delivery, effectively, comprising: a data aggregation stage [101], collected the data from repository of medical records, web article resources and other known databases [100]; a data preliminary analysis stage [102], removed noisy and irrelevant information; customized to the particular disease dataset [100]; a topic modelling stage [103], identified the latent topics from the available pre-processed data [102]; a disease knowledge engineering stage [104], obtained with well-connected information and very much related to the nature of disease; and a semantic information model stage [105], preserved the rich feature space and avoided lengthy tree traversals in a connected data. FIGURE 1.

No. of Pages : 30 No. of Claims : 9

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF HOME AUTOMATION USING VOICE RECOGNITION AND IOT

<p>(51) International classification :H04L 12/28</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 Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. R. Muthukumar</b> Address of Applicant :Associate Professor, Electrical &amp; Electronics Engineering, Erode Sengunthar Engineering College, Erode 638057 Tamil Nadu India</p> <p><b>2)Mohammad Noor Mohammad</b></p> <p><b>3)Murali Krishna Kotha</b></p> <p><b>4)G.K.Jabash Samuel</b></p> <p><b>5)R. Senthil Kumar</b></p> <p><b>6)Dr K Meenakshi Sundaram</b></p> <p><b>7)Abhay Chaturvedi</b></p> <p><b>8)Dr.A.Umesh Bala</b></p> <p><b>9)J. Jacinth Poornima</b></p> <p><b>10)N.V.Pydi Purnachandar</b></p> <p><b>11)Dr.N.V.S.Suryanarayana</b></p> <p><b>12)Dr.Hardikkumar Dineshchandra Mehta</b></p> <p><b>13)Dr. T.C.Manjunath</b></p> <p><b>14)Neeraj Chandnani</b></p> <p><b>15)Dr.M K Gupta</b></p> <p><b>16)T.Vignesh</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. R. Muthukumar</b></p> <p><b>2)Mohammad Noor Mohammad</b></p> <p><b>3)Murali Krishna Kotha</b></p> <p><b>4)G.K.Jabash Samuel</b></p> <p><b>5)R. Senthil Kumar</b></p> <p><b>6)Dr K Meenakshi Sundaram</b></p> <p><b>7)Abhay Chaturvedi</b></p> <p><b>8)Dr.A.Umesh Bala</b></p> <p><b>9)J. Jacinth Poornima</b></p> <p><b>10)N.V.Pydi Purnachandar</b></p> <p><b>11)Dr.N.V.S.Suryanarayana</b></p> <p><b>12)Dr.Hardikkumar Dineshchandra Mehta</b></p> <p><b>13)Dr. T.C.Manjunath</b></p> <p><b>14)Neeraj Chandnani</b></p> <p><b>15)Dr.M K Gupta</b></p> <p><b>16)T.Vignesh</b></p>
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(57) Abstract :

The home automation improves the lifestyle of the control of home devices. Technology advancements have made the implementation of embedded systems within home appliances. The abilities and benefits are increased by the home automation. The value of our lives can be improved by automating various instruments or electrical appliances. There is always a stipulation for home automation through mobile phones. Our main objectives are to help old aged people and handicapped and to control the home appliances from remote places. Our major focus is on controlling the home appliances from both indoor and outdoor. Smart Building not only refers to reduce human efforts but also energy efficiency and time saving. In this, IoT is used in which appliances are connected to sensors and sensors give status of appliances to the web. Here electric appliances are operated by the website. The main objective of home automation and security is to help handicapped and aged people that will enable them to control home appliances and alert them in critical situations.

No. of Pages : 34 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042710 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : E-GLOVE

(51) International classification	:A41D 19/00	(71)Name of Applicant : <b>1)G.SARAVANAN</b> Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, WEST TAMBARAM, CHENNAI, TAMILNADU, INDIA. 600044 Tamil Nadu India
(31) Priority Document No	:NA	<b>2)K.PALANIKUMAR</b>
(32) Priority Date	:NA	<b>3)HRINIKARTHIK</b>
(33) Name of priority country	:NA	<b>4)M.UNASHALINI</b>
(86) International Application No	:NA	<b>5)V.JANANI</b>
Filing Date	:NA	<b>6)B.NIVASHINI</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)G.SARAVANAN</b>
Filing Date	:NA	<b>2)K.PALANIKUMAR</b>
(62) Divisional to Application Number	:NA	<b>3)HRINIKARTHIK</b>
Filing Date	:NA	<b>4)M.UNASHALINI</b>
		<b>5)V.JANANI</b>
		<b>6)B.NIVASHINI</b>

(57) Abstract :

The aim of this E-Glove invention is to help the workers being exposed to high radiation and also to a common villager who is in need of safe guarding himself/herself from electro fencing and high radiation. Sources of electric current increase the risk of neurodegenerative diseases and neurobehavioral abnormalities. Based on the radiation levels to which the human body is exposed we can save them from the multiple disorders which may cause serious issues in the future.

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

(54) Title of the invention : YCYCLE

(51) International classification	:B62M	(71)Name of Applicant :
(31) Priority Document No	6/40	<b>1)Dr.S.HARIHARAGOPALAN</b>
(32) Priority Date	:NA	Address of Applicant :SRI RAMAKRISHNA
(33) Name of priority country	:NA	ENGINEERING COLLEGE, NGGO COLONY POST,
(86) International Application No	:NA	VATTAMALAIPALAYM, COIMBATORE - 641022,
Filing Date	:NA	TAMILNADU, INDIA-641022 Tamil Nadu India
(87) International Publication No	: NA	<b>2)V.S.AJAI TAARAK</b>
(61) Patent of Addition to Application Number	:NA	<b>3)S.AKILA SUBA</b>
Filing Date	:NA	<b>4)C.ASHMITHA SHREE</b>
(62) Divisional to Application Number	:NA	<b>5)J.S.DHANUSH</b>
Filing Date	:NA	(72)Name of Inventor :
		<b>1)Dr.S.HARIHARAGOPALAN</b>
		<b>2)V.S.AJAI TAARAK</b>
		<b>3)S.AKILA SUBA</b>
		<b>4)C.ASHMITHA SHREE</b>
		<b>5)J.S.DHANUSH</b>

(57) Abstract :

The yCycle is a hybrid of E-bike and E-cycle. It can be driven as an autonomous vehicle and also as normal E-bike with pedalling system. This cycle runs on battery.The pedal-assist technology (PAS System) in the cycle make cycling easier, thus it also improves a persons fitness. A Self-driving mode is implemented using a three-level Artificial Intelligence algorithm and Computer Vision. An innovative low-cost rear accident avoidance system is made possible using machine learning. And everything is made user-friendly by a mobile application that precisely takes to the journeys end and even tracks your health. It also has additional features that implies Smart Summon and Electric braking system. The Smart Summon makes the vehicle to track the drivers path and follows them.Tuhe Electric braking system evaluates the condition of road and alerts the user when brakes are applied in slippery road.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042722 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM FOR RECOVERY OF METALS FROM METAL BEARING SOLID WASTES

(51) International classification	:C25C 7/02	(71)Name of Applicant : <b>1)BHARATHIAR UNIVERSITY</b>
(31) Priority Document No	:NA	Address of Applicant :MARUTHAMALAI MAIN ROAD, COIMBATORE, TAMILNADU, INDIA-641046. Tamil Nadu India
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	<b>1)DR.K.RAMACHANDRAN</b>
(86) International Application No	:NA	<b>2)MR.R.SARAVANAKUMAR</b>
Filing Date	:NA	<b>3)DR.P.V.ANATHAPADMANABHAN</b>
(87) International Publication 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 system that uses plasma aided aluminothermic process for the reduction of metal oxides and recovery of metals from metal bearing solid wastes > is disclosed. This process employs the heat generated by the plasma arc to ignite and sustain the aluminothermic reaction between metal oxides, which have standard Gibbs free energy of formation more than that, of aluminium oxide, available in the waste and aluminium granules supplemented. The products of this process are metallic mixture, slag and the nanopowder. Slag and nanopowder ) contain either aluminium oxide or mixture of aluminium oxide and other oxides - (CaO, MgO), which have standard Gibbs free energy of formation more than that of aluminium oxide. This process could be used to recover metals such as Cr. Fe. Ni, Co, Zn. Mn, Si, Ti, Ag etc from the waste in a single step, a short time and an environment-friendly manner.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042841 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATIC FAULT ANALYSIS MANAGEMENT IN INDUSTRIES USING GSM TECHNOLOGY AND INTERNET OF THINGS

(51) International classification	:H04L 12/24	(71)Name of Applicant : <b>1)Mr. CHAKRADHAR ADUPA</b> Address of Applicant :Assistant Professor Department of Electronics and Communication Engineering, SR University, Ananthasagar, Hasanparthy, Warangal Urban, Telangana 506371 adupa.chakradhar@gmail.com Telangana India
(31) Priority Document No	:NA	<b>2)Ms. JOSE MARY GOLAMARI</b>
(32) Priority Date	:NA	<b>3)Mr. ANAT SHRIVASTAVA</b>
(33) Name of priority country	:NA	<b>4)Dr. AMOD THAKUR</b>
(86) International Application No	:NA	<b>5)Dr. SWASTIKA</b>
Filing Date	:NA	<b>6)Dr. AJITESH SINGH BAGHEL</b>
(87) International Publication No	: NA	<b>7)Dr. NIKHIL RANJAN JHA</b>
(61) Patent of Addition to Application Number	:NA	<b>8)Dr. RAJEEV SHRIVASTAVA</b>
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	<b>1)Mr. CHAKRADHAR ADUPA</b>
Filing Date	:NA	<b>2)Ms. JOSE MARY GOLAMARI</b>
		<b>3)Mr. ANAT SHRIVASTAVA</b>
		<b>4)Dr. AMOD THAKUR</b>
		<b>5)Dr. SWASTIKA</b>
		<b>6)Dr. AJITESH SINGH BAGHEL</b>
		<b>7)Dr. NIKHIL RANJAN JHA</b>
		<b>8)Dr. RAJEEV SHRIVASTAVA</b>

(57) Abstract :

AUTOMATIC FAULT ANALYSIS MANAGEMENT IN INDUSTRIES USING GSM TECHNOLOGY AND INTERNET OF THINGS ABSTRACT OF THE INVENTION Robotized frameworks have fewer manual activities, with the goal that effectiveness, dependability and exactness are high. The computerized framework in any gadget so as to address new issues in the current circumstance is significant. Subsequently, every division lean towards mechanized control frameworks. Better execution is particularly accomplished in the field of mechanized hardware frameworks. Maybe the most significant thing to find out about the worldwide portable contact network is that, it is a global norm. At the point when you are going in regions of the world, GSM is only a type of cell administration accessible. GSM was created as a sight and sound organization utilizing TDMA innovation rather than simple administrations. The objective of this is to set up a framework that utilizes portable innovation, which holds command over the various units of the vehicle, and which works with respect to the sign got by the cell phone. The new idea was created to work the gear distantly by utilizing GSM MODEM, which permits the client to distantly control and track mechanical frameworks. Similarly, we get cautioning sees in basic circumstances, for example, fire episodes. The scopes of substantial hardware to be worked by tele-far off frameworks are numerous in number. Huge numbers of them are as per the following and this relies upon the significance of utilization of hardware, for example impact heater, high-grade warmers or other electrical/electronic apparatuses just as to utilize web of things innovation for the observing of things precisely from the far-off areas.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042857 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATIC MAGNETIC BEAD BASED DNA/RNA/PROTEIN SEPARATION AND EXTRACTION IN PARALLEL LINE ARRANGEMENT

(51) International classification	:C12M 1/00	(71)Name of Applicant : <b>1)Subramaniam Kaliappa</b>
(31) Priority Document No	:NA	Address of Applicant :No. 9, Nataraj Layout, Ramanathapuram, Coimbatore 641045 Tamil Nadu India
(32) Priority Date	:NA	<b>2)Dhanavathy Subramaniam</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)Subramaniam Kaliappa</b>
Filing Date	:NA	<b>2)Dhanavathy Subramaniam</b>
(87) International Publication 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 MAGNETIC BEAD BASED DNA/RNA/PROTEIN SEPARATION AND EXTRACTION IN PARALLEL LINE ARRANGEMENT An automatic magnetic bead based DNA/RNA/Protein separation and extraction in parallel line arrangement comprising of six modules is disclosed in the present invention where the arrangement is characterized by a combination of three movements 1) Horizontal movement 2) Vertical movement 3) Magnetic pin movement, to complete its target work assigned by the user through a sophisticated computer program developed for this arrangement.

No. of Pages : 38 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042859 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL, NON-INVASIVE POLY HERBAL TOPICAL ADHESIVE PLASTER FOR THE EFFECTIVE TREATMENT OF DIABETIC WOUNDS, ITS PREPARATION AND USES THEREOF.

(51) International classification	:A61F 13/02	(71) <b>Name of Applicant :</b> <b>1)Walters Siddha Research Private Limited</b>
(31) Priority Document No	:NA	Address of Applicant :10/1, Indian Bank Upstairs, Kamarajar
(32) Priority Date	:NA	Salai, Tirunelveli, Tamilnadu, India. 627011 Tamil Nadu India
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Dr. M. Thomas Walter, M.D(s)</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 :

Novel, Poly herbal, Topical adhesive medicated plaster for the effective treatment of Diabetic wounds and its complications comprising extracts of Pongamia pinnata, Datura metel, Coconut milk and Coconut oil. The synergistic formulation possesses Wound healing, Angiogenesis, Anti-inflammatory, Anodyne and Anti-spasmodic properties as substantiated by In-vitro Wound healing scratch assay on H9C2 Heart cells.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042891 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ISUAV-WOMEN SECURITY: INTELLIGENT WOMEN SECURITY USING STREET LIGHT AND AUTO RUN UNMANNED AERIAL VEHICLE USING IOT BASED TECHNOLOGY.

(51) International classification	:F21S 8/08	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. SYED UMAR (PROFESSOR)</b>
(32) Priority Date	:NA	Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE WOLLEGA UNIVERSITY, NEKEMTE, ETHIOPIA.
(33) Name of priority country	:NA	E-mail: umar332@gmail.com Ethiopia
(86) International Application No	:NA	<b>2)P. LAKSHMI SONY (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>3)KANCHAN D. GANVIR (ASSISTANT PROFESSOR)</b>
(87) International Publication No	: NA	<b>4)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS)</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. SYED UMAR (PROFESSOR)</b>
(62) Divisional to Application Number	:NA	<b>2)P. LAKSHMI SONY (ASSISTANT PROFESSOR)</b>
Filing Date	:NA	<b>3)KANCHAN D. GANVIR (ASSISTANT PROFESSOR)</b>
		<b>4)Prof.(Dr.) S. B. CHORDIYA (DIRECTOR-SIMMC- CAMPUS)</b>

(57) Abstract :

ISUAV-Women Security: Intelligent Women Security using Street Light and Auto Run Unmanned Aerial Vehicle Using IoT based Technology. ABSTRACT Our Invention ISUAV-Women Security A street light mounted device for providing integrated infrastructure facilities comprising a controller implementing street light control coupled to more than one ambient parameter sensors for effecting infrastructure facility functions and more than one WI-FI communication units enabling data exchange with external such devices. The invented technology also comprising a network multiple interconnected such devices is capable of provide more than one infrastructural facilities such as womens security, tracking vehicle, raining water monitoring, air pollution monitoring and public transport monitoring. The invented technology also to providing a series of multiuse UAV docking stations and the docking stations can be networked with a central control and a plurality of UAVs. The invented technology is also the docking stations can include a number of services to facilitate both UAV guidance and maintenance and community acceptance and benefits. The invented technology the docking stations can include package handling facilities and can act as a final destination or as a delivery hub. The docking stations can extend the range of UAVs by providing recharging/refueling stations for the UAVs. The invented technology the docking stations can also include navigational aid to guide the UAVs to the docking stations and to provide routing information from the central control. The invented technology the docking stations can be incorporated into existing structures such as cell towers, light and power poles, and buildings. The docking stations can also comprise standalone structures to provide additional services to underserved areas.

No. of Pages : 23 No. of Claims : 8

(54) Title of the invention : AMPI- HAZARDOUS & NON-HAZARDOUS WASTE MANAGEMENT: AUTOMATIC METHOD AND PROCESS MANAGEMENT FOR INDUSTRIAL HAZARDOUS AND NON-HAZARDOUS WASTE USING IOT- BASED 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</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>:B09B</p> <p>3/00</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><b>1)Dr. S AKHILA (PROFESSOR)</b></p> <p>Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION, B.M.S. COLLEGE OF ENGINEERING, BANGALORE-560019, KARNATAKA, INDIA. E-mail: akhilas.ece@bmsce.ac.in Ph: 9945520115 Karnataka India</p> <p><b>2)Dr. VEENA M B (ASSOCIATE PROFESSOR)</b></p> <p><b>3)Ms. SOWMYA SUNKARA (ASSISTANT PROFESSOR)</b></p> <p><b>4)Ms. ASHWINI V (ASSISTANT PROFESSOR)</b></p> <p><b>5)Ms. HARSHITHA B (ASSISTANT PROFESSOR)</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. S AKHILA (PROFESSOR)</b></p> <p><b>2)Dr. VEENA M B (ASSOCIATE PROFESSOR)</b></p> <p><b>3)Ms. SOWMYA SUNKARA (ASSISTANT PROFESSOR)</b></p> <p><b>4)Ms. ASHWINI V (ASSISTANT PROFESSOR)</b></p> <p><b>5)Ms. HARSHITHA B (ASSISTANT PROFESSOR)</b></p>
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(57) Abstract :

Patent Title: AMPI- Hazardous & Non-Hazardous Waste Management: Automatic Method and Process Management for Industrial Hazardous and Non-Hazardous Waste Using IoT- Based Technology. ABSTRACT Our invention AMPI- Hazardous & Non-Hazardous Waste Management • an automatic recycling machine and automatic waste disposal system for plural types of household and commercial waste materials which automatically sorts, processes, shreds, crushes, compacts, rinses by cleaning liquid for removal of contamination and dirt from certain washable waste types, packages the waste material, and identifying the package with waste type and waste source by barcode marking. The automatic recycling machine is constructed as an appliance and includes separate fluid power actuation means for each type of recyclable material and non-recyclable waste, and control system to control the recycling process for each waste material type separately. The automatic recycling machine also comprises an operator control panel which includes warning indicators to inform on filled waste package of certain waste material type. The invention includes a system and method for creating a solid waste system to address the multiple types of waste that are disposed by the public, and further, to provide a waste management solution that provides for the sustained economic development and growth of communities. The invention also provides effective screening and separation of hazardous components in the waste stream, and further provides recovery and reuse solutions as alternatives to disposal of hazardous waste. The invention further provides communities with a system and method to more effectively capture and use disposed and other waste streams to provide renewable energy sources. Moreover, the invention includes a method for solid waste management system that makes sustainable development possible while preserving the economic interests of the parties involved.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042902 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IMAGE SUPER RESOLUTION DENOISING SYSTEM WITH DEEP CONVOLUTIONAL GENERATIVE ADVERSARIAL NETWORKS

(51) International classification	:G06N 3/04	(71)Name of Applicant : <b>1)Mr. N. V. S. V. Vijay Kumar</b> Address of Applicant :Assistant Professor, Department of ECE, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, India. Pin Code: 530045. Andhra Pradesh India <b>2)Dr.A.Ch.Sudhir</b> <b>3)Mr.Paladugu Raju</b> <b>4)Dr.B.Suribabu Naick</b> <b>5)Mr.Pradeep Vinaik Kodavanti</b> <b>6)Mrs.K Renu</b> <b>7)Mr.Koteswara Rao Naik.R</b> <b>8)Mr.Md Khwaja Muinuddin Chisti</b> <b>9)Mr.Dabbara Jayanayudu</b> <b>10)Mr.Durga Prasad Tumula</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Mr. N. V. S. V. Vijay Kumar</b> <b>2)Dr.A.Ch.Sudhir</b> <b>3)Mr.Paladugu Raju</b> <b>4)Dr.B.Suribabu Naick</b> <b>5)Mr.Pradeep Vinaik Kodavanti</b> <b>6)Mrs.K Renu</b> <b>7)Mr.Koteswara Rao Naik.R</b> <b>8)Mr.Md Khwaja Muinuddin Chisti</b> <b>9)Mr.Dabbara Jayanayudu</b> <b>10)Mr.Durga Prasad Tumula</b>
(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 :

To restore the high quality images from the degraded images, restoration is used. By removing the noise from the noisy image, Image Denoising restores the true images. The traditional Deep Convolutional Neural Network (DCNN) improves the Denoising of images mainly by concentrating on the minimization of Mean Square Error (MSE). The Present invention, Image Super Resolution Denoising System with Deep Convolutional Generative Adversarial Networks comprising of: Noisy image (401); Convolutional Layer (402); Convolutional Layer (403); Block-1 (404); Up-Scaler (405); Block-2 (406); Up-Scaler (407); Block-3 (408); Up-Scaler (409); Convolutional Layer (410); Convolutional Layer (411); Super Resolution Denoised Image (412); Noisy image (413); Block-1 (414); Block-2 (415); Block-3 (416); Block-4 (417); Full Connected Network (418) Layer; Leaky Rectified Linear Unit (419); Full Connected Network (420) Layer; Probability (421); Generated Image (422); generates a realistic images by performing image Denoising and Image Super Resolution. The invention disclosed here is an Image Super Resolution Denoising System with Deep Convolutional Generative Adversarial Networks yields the Average Performance metrics Peak Signal-to-Noise Ratio (PSNR) of 34.65, Structural Similarity Index Measure (SSIM) of 0.982 and Perceptual Distance from the Reference Image (PDR) of 0.056.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042912 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IOT MALWARE ANALYSIS SYSTEM WITH DEEP LEARNING APPROACH

(51) International classification	:G06F 21/56	(71)Name of Applicant : <b>1)Dr. Ranga Swamy Sirisati</b> Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Vignan's Institute of Management and Technology for Women, Kondapur, Telangana, India. Pin Code-501301 Telangana India <b>2)Dr. C. Srinivasa Kumar</b> <b>3)Dr. G. Apparao Naidu</b> <b>4)Dr. Samiran Chatterjee</b> <b>5)Dr. T. Srivasulu</b> <b>6)Mrs. Indrani Vasireddy</b> <b>7)Mr. Harikrishna Ponnam</b> <b>8)Mr. Kancharla Bharath Reddy</b> <b>9)Mr. Phijik Battula</b> <b>10)Mr. Srajan Kumar</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Ranga Swamy Sirisati</b> <b>2)Dr. C. Srinivasa Kumar</b> <b>3)Dr. G. Apparao Naidu</b> <b>4)Dr. Samiran Chatterjee</b> <b>5)Dr. T. Srivasulu</b> <b>6)Mrs. Indrani Vasireddy</b> <b>7)Mr. Harikrishna Ponnam</b> <b>8)Mr. Kancharla Bharath Reddy</b> <b>9)Mr. Phijik Battula</b> <b>10)Mr. Srajan Kumar</b>
(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 Internet of Things (IOT) is a networks used to collect and transfer the data over the Wireless Network without human intervention due to the increasing facility of Internet. The IOT Malware can scan open port of IOT services, performs brute-force attack to gain access to IOT. Analysis of such an IOT network Malware is Complex. The IOT Malware Analysis System with Deep Learning Approach disclosed here makes the IOT Malware Analysis easy. The Present Invention, IOT Malware Analysis System with Deep Learning Approach comprising of: IOT Malware Dataset (401); Gray Scale Converter (402); Texture Descriptor (403); Classification (404); provides the analysis of the Malware present in the IOT network by the Deep Learning Approach. The Supervised Machine Learning Random Forest Classifier provides the Malware Classification Accuracy of 95.4%.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042924 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ANTI-DROWSINESS DEVICE AND METHOD EMPLOYED THEREOF

(51) International classification	:A61M 1/36	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)NARAYANA ANAND REDDY</b>
(32) Priority Date	:NA	Address of Applicant :Uppununthala(V), Nagarkurnool (Dist)- 509376, Telangana, India.. Telangana India
(33) Name of priority country	:NA	<b>2)ALLAPURAM RISHITHA REDDY</b>
(86) International Application No	:NA	<b>3)NARAYANA ARAVINDREDDY</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)NARAYANA ANAND REDDY</b>
(61) Patent of Addition to Application Number	:NA	<b>2)ALLAPURAM RISHITHA REDDY</b>
Filing Date	:NA	<b>3)NARAYANA ARAVINDREDDY</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards an anti-drowsiness device for detecting drowsiness and alerting a user in real-time, comprising: a gripper attached to a tilt sensor and the tilt sensor attached to an outer portion of an eyeglass, whereby the tilt sensor configured to move the gripper to an eyebrow of the user and the tilt sensor configured to move upside by an elastic membrane to identify an abnormal fluctuation of an eyebrow movement; and a buzzer and a vibrating element configured to alert the user by continuously generating inconvenience sounds and vibrations when the tilt sensor identifies the abnormal fluctuation of the eyebrow movement. Fig. 1A

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042941 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART BED IN VILLAGE PHC / HOME WITH INTEGRATED INTERNET OF THINGS FOR REMOTE HEALTH MONITORING

(51) International classification	:A61B 5/00	(71)Name of Applicant : <b>1)Dr. RAJARAM JATOTHU</b> Address of Applicant :H No:18-78/29, Maruthi Nagar Colony, Peerzadiguda, Medipally Mandal, Medchal Malkajiri District, Hyderabad, Telangana-500098, India. Telangana India
(31) Priority Document No	:NA	<b>2)Dr. DHASARATHAM MEGHAVATH</b>
(32) Priority Date	:NA	<b>3)MALLEREDDY SOWJANYA REDDY</b>
(33) Name of priority country	:NA	<b>4)Dr K.L.S.SOUJANYA</b>
(86) International Application No	:NA	<b>5)CH M SHRUTHI</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. RAJARAM JATOTHU</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Dr. DHASARATHAM MEGHAVATH</b>
Filing Date	:NA	<b>3)MALLEREDDY SOWJANYA REDDY</b>
(62) Divisional to Application Number	:NA	<b>4)Dr K.L.S.SOUJANYA</b>
Filing Date	:NA	<b>5)CH M SHRUTHI</b>

(57) Abstract :

This invention is pertaining to remote health monitoring using Internet of Things (IoT) technology integration. This invention has novel architectural and also a new security scheme for ensuring secure end to end communications. The security scheme provides resilient communications among different parties. RFID technology is used for identity and also cloud-assisted authentication mechanism. Different wearable devices with smart sensors are used in order to acquire patient<sup>TM</sup>s vital signs. The system is built in such a way that a smart bed in village PHC is also integrated with main healthcare unit which is remotely located. Through the proposed architecture, the vital signs of patient are transmitted to remote healthcare unit where physician can view patient<sup>TM</sup>s condition in real time. Thus the invention helps in providing timely treatment and save lives besides saving time, effort and money.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042946 A

(19) INDIA

(22) Date of filing of Application :02/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IOT BASED SMART WEARABLE SOCIAL DISTANCING ALERT SYSTEM

(51) International classification :H04L  
29/08  
(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)SriRam Manish Kumar E**

Address of Applicant :Lecturer, Department of Electrical and Electronics Engineering, Annamalai Polytechnic College, Chettinad- 630102, Tamilnadu. srirammanish93@gmail.com 8300002032 Tamil Nadu India

**2)Gowthaman K S**

**3)Vinothbabu R**

**4)Shabnamara S Jahagirdar**

**5)Sakthivel V**

**6)Naresh G**

**7)Kavitha M S**

**8)Rubala R**

**9)Nivetha B**

**10)Dharun J Adithya**

**11)Gowtham Kumar AJ**

**12)Arpitha G A**

(72)Name of Inventor :

**1)SriRam Manish Kumar E**

**2)Gowthaman K S**

**3)Vinothbabu R**

**4)Shabnamara S Jahagirdar**

**5)Sakthivel V**

**6)Naresh G**

**7)Kavitha M S**

**8)Rubala R**

**9)Nivetha B**

**10)Dharun J Adithya**

**11)Gowtham Kumar AJ**

**12)Arpitha G A**

(57) Abstract :

The invention IOT BASED SMART WEARABLE SOCIAL DISTANCING ALERT SYSTEM • is a device for alerting worn person to maintain social distance with the fellowmen by means of vibration and glowing danger light. This invention consists of microcontroller circuit, vibratory circuit, light circuit and sound circuit and sensor circuit along with 9V powered battery. Programmable ultrasonic sensor is used in this invention to sense the fellowmen entrance of designed distance 2 to 3 feet radius. This low cost smart wearable social distancing alert device could also be an effective solution to stop the pandemic virus spread.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042967 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IDENTIFICATION OF MISSING PERSON/CRIMINAL/IF ANY BASED-ON INTERNET OF THINGS (IOT) AND DEEP LEARNING TECHNIQUES

(51) International classification	:H04L	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. G. Karuna</b>
(32) Priority Date	:NA	Address of Applicant :Professor, Computer Science and
(33) Name of priority country	:NA	Engineering, Gokaraju Rangaraju Institute of Engineering and
(86) International Application No	:NA	Technology, Bachupally, Hyderabad, Telangana, INDIA.
Filing Date	:NA	Telangana India
(87) International Publication No	: NA	<b>2)Dr. G. Venkatarami Reddy</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Mr. Gorantla Hemanth Kumar</b>
Filing Date	:NA	<b>4)Dr. K. Sathish</b>
(62) Divisional to Application Number	:NA	<b>5)Mr. Vikram Neerugatti</b>
Filing Date	:NA	<b>6)Dr. Kamalapuram Khaja Baseer</b>
		(72)Name of Inventor :
		<b>1)Dr. G. Karuna</b>
		<b>2)Dr. G. Venkatarami Reddy</b>
		<b>3)Mr. Gorantla Hemanth Kumar</b>
		<b>4)Dr. K. Sathish</b>
		<b>5)Mr. Vikram Neerugatti</b>
		<b>6)Dr. Kamalapuram Khaja Baseer</b>

(57) Abstract :

The system is intended to identify the missing person or any other person based on the requirement of the user. The missing person can be identified automatically without human intervention by using the artificial intelligence algorithms and deep face modules. The system will collect the data from varies camera and stored in the server, the data that collected at the time of compliant will be matched to the data that captured from the camera by using the predefined algorithms and the exact match may found. Once the match found locally alarm will rings and SMS will be send to the corresponding mobile numbers globally.

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

(54) Title of the invention : A SYSTEM AND METHOD TO PREVENT UNCONSCIOUS DRIVING BEHAVIOURS

(51) International classification

:H04W  
4/80

(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)V. NAGARAJ**Address of Applicant :S/o. G.VARATHARAJ, HOUSE NO :  
1/351, BACKSIDE OF CANARA BANK, SANDAIPETTAI,  
VAIKUNTHAM(PO) SANGAGIRI(TK), SALEM(DT) 637103,  
TAMIL NADU, INDIA Tamil Nadu India**2)Dr. S. SENTHILKUMAR****3)PRADEEP BEDI****4)P. RAMYA****5)Dr. M. UMAMAHESWARI****6)Dr. CHITRA PASUPATHI****7)SREEDEVI S****8)NEERAJ CHANDNANI****9)Dr. JANARDAN PANDURANG BHOSALE****10)M. SARAVANAN****11)M. PAVITHRA****12)Dr. MAHESH BHALAKRISHNAN****13)Dr. S. SUBHASHINI****14)B. PRABAKARAN**

(72)Name of Inventor :

**1)V. NAGARAJ****2)Dr. S. SENTHILKUMAR****3)PRADEEP BEDI****4)P. RAMYA****5)Dr. M. UMAMAHESWARI****6)Dr. CHITRA PASUPATHI****7)SREEDEVI S****8)NEERAJ CHANDNANI****9)Dr. JANARDAN PANDURANG BHOSALE****10)M. SARAVANAN****11)M. PAVITHRA****12)Dr. MAHESH BHALAKRISHNAN****13)Dr. S. SUBHASHINI****14)B. PRABAKARAN**

(57) Abstract :

Vehicle security and accident prevention are more challenging. This project is to provide security to the vehicles by engine locking system which prevents the vehicle from unauthorized access. This technique helps to find out the exact location of the accident and with the help of a server, an emergency vehicle can be sent to the exact location to reduce the human life loss. It also detects the behavior of the driver through sensors whether he/she is drowsy Drowsiness, as well as Tiredness of motorists, is amongst the considerable root causes of road crashes. The Anti-Theft Vehicle Security System is designed to solve the surge in the number of robbery cases in vehicles. The secure system comprises of AI-based techniques like face recognition. The existing system doesn't have any communication with the owner other than alerting using alarms. Our proposed model provides a communication facility and this communication technique is used in face recognition to make an interaction between humans and machines. Drowsiness, as well as Tiredness of motorists, is amongst the considerable root causes of road crashes.

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

(54) Title of the invention : AUTOMATED SAFETY SYSTEM FOR DRIVER AND PILLION RIDER IN TWO WHEELER

<p>(51) International classification :B62J 27/00</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 Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mr.B.S.AAKASH</b> Address of Applicant :Department of Electronics and Instrumentation Engineering, Sri Sai Ram Engineering College, Sai Leo Nagar, West Tambaram, Chennai -600044 Tamil Nadu India</p> <p><b>2)Mr.K.ANBUMANI</b></p> <p><b>3)Mr.K.MADHANA MOHAN</b></p> <p><b>4)Mr.M.SUBRAMANIAN</b></p> <p><b>5)Mr.T.SATHIES KUMAR</b></p> <p><b>6)Ms.S.SUBHA</b></p> <p><b>7)Mr.G.SRIVARSHAN</b></p> <p><b>8)Dr.K.RENGANATHAN</b></p> <p><b>9)Mr.B.RAJAPANDIAN</b></p> <p><b>10)Mr.V.SANKARA SUBRAMANIAN</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr.K.MADHANA MOHAN</b></p> <p><b>2)Mr.M.SUBRAMANIAN</b></p> <p><b>3)Mr.V.SANKARA SUBRAMANIAN</b></p> <p><b>4)Mr.G.SRIVARSHAN</b></p> <p><b>5)Mr.K.ANBUMANI</b></p> <p><b>6)Ms.S.SUBHA</b></p> <p><b>7)Mr.B.S.AAKASH</b></p> <p><b>8)Dr.K.RENGANATHAN</b></p> <p><b>9)Mr.T.SATHIES KUMAR</b></p> <p><b>10)Mr.B.RAJAPANDIAN</b></p>
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(57) Abstract :

Helmets play a vital role in safe guarding a driver<sup>TM</sup>s and pillion rider<sup>TM</sup>s life. Although the law enforces bike driver and pillion rider to wear a helmet, this advice is not taken seriously by many. It also addresses several other issues related to safe bike riding. Our project uses an improvised helmet that uses sensors and switches which sends wireless status signals to the controller circuitry of the bike and the controller in turn actuates the ignition system of the bike which will be activated only if the driver and pillion rider wears the helmet and strap it properly, failing which the ignition system will not be actuated. The project also employs a pressure sensor to detect the presence of pillion-rider based on the pressure created by the combined weight of the driver and pillion rider. If a pillion-rider is present, the system makes sure he/she also wears a helmet. The helmet also incorporates an alcohol detector and if the rider has consumed alcohol, the system doesn't allow him/her to ride and thus drunken-drive can be stopped effectively. It also has a well-ventilated design that makes the biker feel more comfortable and our system also has measures to make sure that the driver and the pillion rider always wears the helmet while riding the bike, by using a touch sensor which interfaces the skin or hair of a rider. The helmet is planned in such a way that, once it is worn and strapped properly, the user cannot use phones, which also is one of the major causes of accidents. Thus combining all these security features together in a two-wheeler, the overall safety of driver and pillion rider are greatly enhanced

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043048 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD OF MULTILAYER SPIKING NEURAL NETWORK COMPUTING FOR VLSI PROCESSOR DESIGN USING SUPERVISED LEARNING ALGORITHM

(51) International classification	:G06N	(71)Name of Applicant :
(31) Priority Document No	3/04	<b>1)Dr T. VASUDEVA REDDY</b>
(32) Priority Date	:NA	Address of Applicant :ASSOCIATE PROFESSOR,
(33) Name of priority country	:NA	DEPARTMENT OF ECE, B. V. RAJU INSTITUTE OF
(86) International Application No	:NA	TECHNOGY, NARSAPUR, MEDAK(dt), HYDERABAD,
Filing Date	:NA	TELANGANA INDIA, 502313 Telangana India
(87) International Publication No	: NA	<b>2)Mr. M. OBULA REDDY</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Mr. K. MADHAVA RAO</b>
Filing Date	:NA	<b>4)Mr. J. YESHWANTH REDDY</b>
(62) Divisional to Application Number	:NA	<b>5)Ms. P. KAVITHA REDDY</b>
Filing Date	:NA	(72)Name of Inventor :
		<b>1)Dr T. VASUDEVA REDDY</b>
		<b>2)Mr. M. OBULA REDDY</b>
		<b>3)Mr. K. MADHAVA RAO</b>
		<b>4)Mr. J. YESHWANTH REDDY</b>
		<b>5)Ms. P. KAVITHA REDDY</b>

(57) Abstract :

The present invention relates to a method of multilayer spiking neural network computing for VLSI processor design using supervised learning algorithm. The objective of the present invention is to solve the problems in the prior art related to adequacies in technologies of information computing using processing of the spiking neural network computing on VLSI processor. Refer to Figure 1

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043056 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A NOVEL MODEL FOR WORK LIFE BALANCE AND METHODS THEREOF

(51) International classification	:A61K 9/00	(71)Name of Applicant : <b>1)Dr. Dinesha H. A.</b> Address of Applicant :Associate Professor and HOD ,Computer Science, Shri Siddharameshwar Education Trust ( SSET ) , SG Balekundri Institute of Technology, Belagavi , Affiliated to VTU Belagavi Karnataka India <b>2)Dr Priti Verma</b> <b>3)DR. NIDHI ARORA</b> <b>4)Dr. Parashuram Baraki</b> <b>5)Dr. Parashuram Baraki</b> <b>6)Mr. Aruna Kumar B T</b> <b>7)Bibhu Kalyan Mishra</b> <b>8)Dr.MANOJ H M</b> <b>9)Kokila S</b> <b>10)S G Gollagi</b> <b>11)M R Suresh</b> <b>12)Manjunath B. Sholapur</b> <b>13)Dr.Piyush Kumar Pareek</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Dinesha H. A.</b> <b>2)Dr Priti Verma</b> <b>3)DR. NIDHI ARORA</b> <b>4)Dr. Parashuram Baraki</b> <b>5)Dr. Parashuram Baraki</b> <b>6)Mr. Aruna Kumar B T</b> <b>7)Bibhu Kalyan Mishra</b> <b>8)Dr.MANOJ H M</b> <b>9)Kokila S</b> <b>10)S G Gollagi</b> <b>11)M R Suresh</b> <b>12)Manjunath B. Sholapur</b> <b>13)Dr.Piyush Kumar Pareek</b>
(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 system that provides work life balance status of people, by analyzing their behavior and reporting discrepancy if found any to respective mentor. The system will receive data associated with work, health, spiritual mentor and contacts from machine learning model, the data received from the mentors is communicated to first machine learning model to obtain the attributes on health status and resends the data received to second supervised machine learning model to obtain a first plurality of emotions associated with the user data. Based on generic behavior and health, if any discrepancy is observed, then respective mentor is alerted.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043062 A

(19) INDIA

(22) Date of filing of Application :03/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : MULTI-FUNCTIONAL AUTOMATIC TOUCH FREE HAND SANITIZER DEVICE

(51) International classification	:G06F 3/01	(71)Name of Applicant : <b>1)Sathish G</b> Address of Applicant :SRI SAI RAM ENGINEERING COLLEGE Sai Leo Nagar, West Tambaram, Chennai-600 044, Tamil nadu, India Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr.Mithileysh Sathiyarayanan</b>
(32) Priority Date	:NA	<b>3)Srivarshan G</b>
(33) Name of priority country	:NA	<b>4)Dr.Sumathi Sokkanarayanan</b>
(86) International Application No	:NA	<b>5)Deepak S</b>
Filing Date	:NA	<b>6)Santhosh V</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Dr.Mithileysh Sathiyarayanan</b>
Filing Date	:NA	<b>2)Sathish G</b>
(62) Divisional to Application Number	:NA	<b>3)Deepak S</b>
Filing Date	:NA	<b>4)Dr.Sumathi Sokkanarayanan</b>
		<b>5)Santhosh V</b>
		<b>6)Srivarshan G</b>

(57) Abstract :

A multi-functional automatic touch free hand sanitizer device 100 is disclosed. The hand sanitizer device 100 includes an infrared sensor, a temperature sensor 108, a cough detector, and a mask detector. The infrared sensor that is configured with a height sensor 110 to dispense a sanitizer on to a person<sup>TM</sup>s palm when the person<sup>TM</sup>s palm is near the hand sanitizer and at a particular height. The temperature sensor 108 that is configured to check a body temperature of the person. The cough detector that is configured to detect a presents of a coughing person around the hand sanitizer. The mask detector that is configured to detect whether the person who is entering an entrance is wearing a face mask or not. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043071 A

(19) INDIA

(22) Date of filing of Application :04/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : BRAIN CANCER DETECTION AND ANALYSIS WITH ADVANCED IMAGING TECHNOLOGIES IOT

(51) International classification	:H04L 29/08	(71)Name of Applicant : <b>1)Dr.M.V.Suganyadevi</b> Address of Applicant :Associate Professor Department of EEE Saranathan College of Engineering Trichy Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Dr.R.Ramya</b>
(32) Priority Date	:NA	<b>3)Ms.C.Santhiya</b>
(33) Name of priority country	:NA	<b>4)Dr. Arun Raj Lakshminarayanan</b>
(86) International Application No	:NA	<b>5)Mr. Saravanan Parthasarathy</b>
Filing Date	:NA	<b>6)Mr. Selvaprabu Jeganathan</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Dr.M.V.Suganyadevi</b>
Filing Date	:NA	<b>2)Dr.R.Ramya</b>
(62) Divisional to Application Number	:NA	<b>3)Ms.C.Santhiya</b>
Filing Date	:NA	<b>4)Dr. Arun Raj Lakshminarayanan</b>
		<b>5)Mr. Saravanan Parthasarathy</b>
		<b>6)Mr. Selvaprabu Jeganathan</b>

(57) Abstract :

Present invention provides specially design and develops a system for IoT enabled brain cancer detection and analysis with advanced imaging technologies using deep learning. Present invention relates to IoT enabled health care domain specifically brain cancer MRI. This system will be useful in detecting, analyzing and predicting the brain cancer disease by using deep learning technology. Our system will make better representations from big-data and neuroscience. This invention will assist the various stakeholders like radiologists, neurosurgeons and clinical practitioner to reach at precise decision level. This invention will also predict, whether brain tumor is cancerous (malignant) or not (benign), prediction of cancer growth over a period of time, prediction of survival time of patient and prediction of post-surgery recovery. Resultant data of our system will be stored on portal that portal can be accessed by all the stake holders mentioned above. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the process of the invention.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043078 A

(19) INDIA

(22) Date of filing of Application :04/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR BRAIN TUMOR DETECTION AND ANALYSIS

(51) International classification

:A61B

(31) Priority Document No

5/00

: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)M.K.Mariam Bee**

Address of Applicant :SAVEETHA SCHOOL OF ENGINEERING,SIMATS,SAVEETHA NAGAR,THANDALAM,CHENNAI-602105 Tamil Nadu India

**2)Mrs.S.Saranya**

**3)Dr.V.Kathiresan**

**4)Dr.P.Nithya**

**5)VIBINCHANDAR SELVARAJ**

**6)Dr.B. Rosiline Jeetha**

**7)Dr.B.Umamaheshwari**

**8)Dr. Inamul Hasan Madar**

**9)Dr. Ghazala Sultan**

**10)Dr. Thabitha Amalraj**

**11)Dr. Iftikhar Aslam Tayubi**

**12)Dr. Selvaraj Jagannathan**

**13)Dr.R.Puviarasi**

**14)DR.S.BALAMURUGAN**

(72)Name of Inventor :

**1)M.K.Mariam Bee**

**2)Mrs.S.Saranya**

**3)Dr.V.Kathiresan**

**4)Dr.P.Nithya**

**5)VIBINCHANDAR SELVARAJ**

**6)Dr.B. Rosiline Jeetha**

**7)Dr.B.Umamaheshwari**

**8)Dr. Inamul Hasan Madar**

**9)Dr. Ghazala Sultan**

**10)Dr. Thabitha Amalraj**

**11)Dr. Iftikhar Aslam Tayubi**

**12)Dr. Selvaraj Jagannathan**

**13)Dr.R.Puviarasi**

**14)DR.S.BALAMURUGAN**

(57) Abstract :

Brain tumor is one of the causes for the increase in death among children and adults. A tumor is a mass of tissue that grows out of control of the normal forces that regulates growth Medical image processing techniques play an important role in helping in medical field for patient diagnosis, the aim of this work is comparison between three improved methods to identify the brain tumor using magnetic resonance brain images and analysis of the performance of each method according to different values, accuracy, sensitivity, specificity, recall and precision values, We used three improved methods the first method improved ANFIS. Finally, the improved methods allow the development of algorithms to diagnose a tumor more accurately and for a short period of time and each method is distinguished from each other in the performance and value, this gives integrity and strength to this work, these methods can be used in pre and post radio surgical applications

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043102 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD FOR DETECTING HEALTH CONDITION IN PLANTS USING AN AERIAL DEVICE BASED ON DEEP LEARNING APPROACH

(51) International classification	:A61B	(71)Name of Applicant :
(31) Priority Document No	5/00	<b>1)CHALLAGUNDLA RAMESH BABU</b>
(32) Priority Date	:NA	Address of Applicant :Professor, Department of CSE,
(33) Name of priority country	:NA	Geethanjali College of Engineering and Technology, Cheeryala,
(86) International Application No	:NA	Keesara Medchal Dist, Keesara, Telangana, India 501301
Filing Date	:NA	Telangana India
(87) International Publication No	: NA	<b>2)DAMMAVALAM SRINIVASA RAO</b>
(61) Patent of Addition to Application Number	:NA	<b>3)VANGIPURAM SRAVAN KIRAN</b>
Filing Date	:NA	<b>4)RAJASEKHAR NUUVUSETTY</b>
(62) Divisional to Application Number	:NA	<b>5)LALITH BHARADWAJ BARU</b>
Filing Date	:NA	(72)Name of Inventor :
		<b>1)CHALLAGUNDLA RAMESH BABU</b>
		<b>2)DAMMAVALAM SRINIVASA RAO</b>
		<b>3)VANGIPURAM SRAVAN KIRAN</b>
		<b>4)RAJASEKHAR NUUVUSETTY</b>
		<b>5)LALITH BHARADWAJ BARU</b>

(57) Abstract :

ABSTRACT Embodiments of the present disclosure relate to a system and method for detecting health condition of a plantation. The system comprises an aerial device and a computing device. The aerial device comprising an image sensor, a navigation unit and a first transceiver. The image sensor captures a plurality of images of the plantation. The navigation unit navigates the aerial device through the plantation. The first transceiver transmits the captured plurality of images. The computing device comprising a second transceiver, a processing unit, a tuning unit and an optimize and evaluate unit (OEU). The second transceiver receives the captured plurality of images and the corresponding GPS tags. The processing module to process the captured plurality of images to generate processed images. The tuning unit to tune the processed images to obtain a model. The OEU optimizes the model by generating hyper-parameters, which are evaluated to detect the health condition of plantation. Figure 2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043189 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : A METHOD AND SET-UP FOR DETERMINATION OF PRESSURE AND COMPOSITION OF A GAS DISCHARGE

(51) International classification	:C08F 110/06	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Indian Space Research Organization</b>
(32) Priority Date	:NA	Address of Applicant :Department of Space, Antariksh
(33) Name of priority country	:NA	Bhavan, New BEL Road, Bangalore 560 231, India Karnataka
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Enni Krishna</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Narayanan kutty Pattathil Balakrishnan Nair</b>
Filing Date	:NA	<b>3)Jagroop</b>
(62) Divisional to Application Number	:NA	<b>4)Raman Rajagopalan</b>
Filing Date	:NA	<b>5)Paul Pandian Sripadmanabhan</b>
		<b>6)Sam Dayala Dev Devanesan</b>

(57) Abstract :

The present invention relates to a method and set-up for determination of pressure and composition of He-Ne gas discharge by Optical Emission Spectroscopy (OES) technique. The present invention is used for analyzing gas constitution, partial pressure and total pressure of He-Ne gas discharge sealed in an RLG (Ring Laser Gyroscope) block (20) made of ULG (Ultra Low Thermal Expansion) glass. The analysis is based on selection of a pair of closely spaced spectral lines emitted from the gas discharge tube and measurement of their relative intensities with respect to partial and total pressure. This method also used for analyzing the optical gain and its optimization for the RLG block (20). [FIGURE 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043252 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DESIGNING A NEW AND EFFICIENT MODEL FOR OUR TRADITIONAL FOOD PRODUCTION: RAGI KALI

(51) International classification	:C07D 249/08	(71)Name of Applicant : <b>1)Dr.G.Balaji</b> Address of Applicant :Paavai Engineering College Tamil Nadu India <b>2)S.Rathinavel</b> <b>3)R.Johnni Hepziba</b> <b>4)K.K.Poongodi</b> <b>5)Dr.B.Murali Babu</b> <b>6)Dr.A.Rathinam</b> <b>7)C.Arul kumar</b> <b>8)D.Boopathi</b> <b>9)S.Satheesh kumar</b> <b>10)S.Suganya</b> <b>11)A.P.Sivasubramaniam</b> <b>12)Dr.S.Thirunavukarasu</b> <b>13)Dr.D.R.P.RAJARATHNAM</b> <b>14)Dr.G.Raja</b> <b>15)Kaviyaraj R</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr.G.Balaji</b> <b>2)S.Rathinavel</b> <b>3)R.Johnni Hepziba</b> <b>4)K.K.Poongodi</b> <b>5)Dr.B.Murali Babu</b> <b>6)Dr.A.Rathinam</b> <b>7)C.Arul kumar</b> <b>8)D.Boopathi</b> <b>9)S.Satheesh kumar</b> <b>10)S.Suganya</b> <b>11)A.P.Sivasubramaniam</b> <b>12)Dr.S.Thirunavukarasu</b> <b>13)Dr.D.R.P.RAJARATHNAM</b> <b>14)Dr.G.Raja</b> <b>15)Kaviyaraj R</b>
(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 :

Kali is a traditional food of Tamil Nadu and South India which is very healthy and tasty. The art of making kali is a skill which takes effort to produce the desired output and the art of making this food is known by few people. To enrich the value of our traditional food, The Ragi Kali Making Machine has been invented. In India over 30 million people have been diagnosed with diabetics and Ragi Kali is a very good diet for diabetics. The Ragi Kali making machine focuses on converting liquid flour mixture into semi-solid or solid mixture according to the desire of the consumer.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043262 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : WBAN BASED HEALTH MONITRING SYSTEM AND A METHOD THEREOF

(51) International classification	:h04W 72/04	(71)Name of Applicant : <b>1)Dr. V. Kalpana</b> Address of Applicant :5/179, Balaji Nagar, K.N.Palayam Coimbatore, Tamilnadu, Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Mr. J. Arun Pandian</b>
(32) Priority Date	:NA	<b>3)Mr. T. Aathmanesan</b>
(33) Name of priority country	:NA	<b>4)Mr. K. Karthikeyan</b>
(86) International Application No	:NA	<b>5)Mr. E. P. PRAKASH</b>
Filing Date	:NA	<b>6)Dr. D. Jebakumar Immanuel</b>
(87) International Publication No	: NA	<b>7)Ms. P. Ramya</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Dr. V. Kalpana</b>
(62) Divisional to Application Number	:NA	<b>2)Mr. J. Arun Pandian</b>
Filing Date	:NA	<b>3)Mr. T. Aathmanesan</b>
		<b>4)Mr. K. Karthikeyan</b>
		<b>5)Mr. E. P. PRAKASH</b>
		<b>6)Dr. D. Jebakumar Immanuel</b>
		<b>7)Ms. P. Ramya</b>

(57) Abstract :

A body area network is a wireless network of biomedical sensors that are attached to a human body. The aim of wireless body area network (WBAN) is to facilitate continuously recording and monitoring of a person<sup>TM</sup>s health condition, if needed, over a long-distance communication network. WBAN manages signal communications from different body area through a wireless channel for body condition monitoring or diagnosis. A sensing system is to be worn by the individual for a long duration. Those include surface measurements, like ECG, EEG, and body temperature, and chip-implanted body status inspections, like blood glucose-level observation and stomach capsule. WBAN requires long-term stability in terms of operation duration and signal integrity, especially for those chip-implanted applications. It provides efficient communication solutions to the ubiquitous healthcare systems. Channel characteristics of WBAN are different from those of other wireless channels. This paper analyzes the characteristics of recently proposed off-body WBAN channels using CDMA technique and Packet error rate, Frame error rate, Signal to interference noise ratio, bit error performances when the human body rotates.

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

(54) Title of the invention : ACOUSTIC SOFT NOISE CANCELLATION IN HEADPHONES USING SHARC

<p>(51) International classification :H04R 1/10</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 Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mr.S.Satheesh Kumar</b> Address of Applicant :Assistant Professor /ECE KPR Institute of Engineering and Technology, Coimbatore Tamil Nadu India</p> <p><b>2)Dr.J.Rejina Parvin</b></p> <p><b>3)Mr.N.Jeeva</b></p> <p><b>4)Mr.D.Sathish Kumar</b></p> <p><b>5)Ms.U.Vanitha</b></p> <p><b>6)Dr.S.Karthika</b></p> <p><b>7)Dr.N.M.Masoodhu Banu</b></p> <p><b>8)Dr.L.Bhagiyalakshmi</b></p> <p><b>9)Mr.R.Rajkumar</b></p> <p><b>10)Ms. Sushma S Jagtap</b></p> <p><b>11)Ms.M.D.Saranya</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr.S.Satheesh Kumar</b></p> <p><b>2)Dr.J.Rejina Parvin</b></p> <p><b>3)Mr.N.Jeeva</b></p> <p><b>4)Mr.D.Sathish Kumar</b></p> <p><b>5)Ms.U.Vanitha</b></p> <p><b>6)Dr.S.Karthika</b></p> <p><b>7)Dr.N.M.Masoodhu Banu</b></p> <p><b>8)Dr.L.Bhagiyalakshmi</b></p> <p><b>9)Mr.R.Rajkumar</b></p> <p><b>10)Ms. Sushma S Jagtap</b></p> <p><b>11)Ms.M.D.Saranya</b></p>
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(57) Abstract :

Active Noise Cancellation (ANC) is a method of reducing undesired noise in Headphones. ANC is achieved by introducing a cancelling anti-noise • wave through secondary sources, such as from a loud speaker. The traditional approach of acoustic noise control uses passive techniques such as enclosures, barriers, and silencers to attenuate the undesired noise over a broad frequency range; however, they are relatively large, costly, and ineffective at low frequencies. On the other hand, the ANC system efficiently attenuates low-frequency noise where passive methods are either ineffective or tend to be very expensive or bulky. The proposed invention deals about design and Implementation of Rapid Air Technology-Feedback ANC (RAT-FANC) algorithm. The RAT-FANC algorithm is divided into design of ANC, Modified FANC (MFANC) and then RAT-FANC. The algorithm is implemented using Super Harvard Architecture Computer (SHARC) processor. The implementation of RAT-FANC is based on variations in the signalling paths of actual ANC system to enhance the attenuation range of soft noises for the effective Audio processing. The attenuation range of Noise using RAT-FANC systems is better in nature when compared with the existing FANC and MFANC systems. The noise control can be done up to 50 dB. The RAT algorithm primarily based on the uses the change in the signalling path to LMS filter. The hardware implementation is mainly using SHARC Processor provides enhanced effective noise cancellation in an audio environment of about 48 dB.

No. of Pages : 8 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041043306 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : UNIVERSAL MOBILE PHONE HOLDER FOR BIKES AND SCOOTERS

(51) International classification

:H04M  
1/04

(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)Eswarapu Balakrishna**

Address of Applicant :PLOT NO 73/1, SRI SAI BABA  
OFFICERS COLONY, SAINIKPURI POST, SECUNDERABAD  
- 500094, TELANGANA STATE, INDIA. Telangana India

(72)Name of Inventor :

**1)Eswarapu Balakrishna**

(57) Abstract :

The device universal mobile holder for bikes & scooters, comprising : mobile clamping unit, fitted by means screw element, washer element & cap nut element, around the circular cross section of existing rear view mirror rods of varying diameters, without needing adopters due to four line contact : mobile gripping unit hinged to the clamping unit , incorporating one fixed and the other movable inclined jaws at opposite ends of rectangular tubing section inclined jaws providing clasping: the jaws held closer by elastic spring band to provide gripping force on a mobile when introduced between the jaws: rubber sleeves/pads on jaws providing enhanced friction for better grip: sling mechanism to prevent snatching and also falling on the ground, when anchored.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202044042168 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : THREEPHASE AND SINGLE-PHASE REACTION LESS INDUCTION MACHINES:MOTORS, ALTERNATORS AND TRANSFORMERS

(51) International classification :H02K 17/38  
(31) Priority Document No :201941039427  
(32) Priority Date :28/09/2020  
(33) Name of priority country :India  
(86) International Application No :NA  
Filing Date :NA  
(87) 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)SHANMUGAM BETHU**  
Address of Applicant :282, 13th Street, TNHB, Periyar Nagar,  
Korattur, Chennai, 600080, Tamil Nadu, INDIA Tamil Nadu India  
**2)Smt. Priya Vishwanath**  
(72)Name of Inventor :  
**1)SHANMUGAM BETHU**  
**2)Priya Vishwanath**

(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 pole insulated with insulating paper with 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 120° apart. Coils are wound between radial outer and inner slots. Stator core is laminated Silicon steel stampings, 0.4 to 0.5 mm thick, stamped together forming stator core, either housed/fitted in stator frame of 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 : 88 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931028444 A

(19) INDIA

(22) Date of filing of Application :15/07/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART AGRICULTURAL VEHICLE SPRAYER

(51) International classification	:A01M0007000000, G06T0007000000, G06Q0050020000, A01C0023000000, B05B0009080000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Mrs. Thia Paul</b>
(33) Name of priority country	:NA	<b>2)Mr. Shishir Kumar Biswas</b>
(86) International Application No	:NA	<b>3)Dr. Sandip Ghosh</b>
Filing Date	:NA	<b>4)Dr. P.K. Bardhan</b>
(87) International Publication No	: NA	<b>5)Dr. Jayanta Kumar Biswas</b>
(61) Patent of Addition to Application	:NA	<b>6)Dr. Anal Ranjan Sengupta</b>
Number	:NA	<b>7)Mr. Palash Biswas</b>
Filing Date	:NA	<b>8)Mr. Subhasish Halder</b>
(62) Divisional to Application Number	:NA	<b>9)Mr. Bikash Chandra Bhunia</b>
Filing Date	:NA	<b>10)Mr. Arnab Kundu</b>
		<b>11)Mr. Dhiraj Mondal</b>
		<b>12)Mr. Anirban Sarkar</b>
		<b>13)Mr. Anirban Sarkar</b>

(57) Abstract :

Agriculture is heart of INDIA. As day by day technologies are developed in such a way manual effort are reduced. So in this running world to develop the agricultural technologies and to help the farmer, we have designed and fabricated the device SMART AGRICULTURAL VEHICLE SPRAYER • . This will be controlled by remote and this will spray the insecticides and pesticides on the low laying vegetable and the grains. Here one man can controlled this device, which reduces the labor and time.

No. of Pages : 7 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931028481 A

(19) INDIA

(22) Date of filing of Application :15/07/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : EXOSKELETON MECHANICAL CHAIR •

(51) International classification	:G06Q0010060000, A61H0001020000, A61H0003000000, B25J0009000000, A47C0015000000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :JIS COLLEGE OF ENGINEERING Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Thia Paul</b>
(33) Name of priority country	:NA	<b>2)Anal Ranjan Sengupta</b>
(86) International Application No	:NA	<b>3)Jayanta Kumar Biswas</b>
Filing Date	:NA	<b>4)Subhasish haldar</b>
(87) International Publication No	: NA	<b>5)Shishir kumar Biswa</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Arnab Kundu</b>
Filing Date	:NA	<b>7)Palash Biswas</b>
(62) Divisional to Application Number	:NA	<b>8)Anirban Sarkar</b>
Filing Date	:NA	<b>9)Dhiraj Mondol</b>
		<b>10)Munshi Rashidul Islam</b>
		<b>11)Bikash Chandra Bhunia</b>
		<b>12)Prashanta Kumar Bardhan</b>
		<b>13)Sandip Ghosh.</b>

(57) Abstract :

This invention relates to healthcare field and Ergonomics science. To be more specific this invention relates to exoskeleton with simple link mechanism to support human movement. This invention which relates to simple link mechanism to support human walking, sitting and standing motions. This invention having mechanical mechanism which is likely to bring sown the cases of MSD (Musculoskeletal Disorders).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931028484 A

(19) INDIA

(22) Date of filing of Application :15/07/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : HELPING WHEEL CHAIR •

(51) International classification	:A61G0005100000, A61G0005060000, A61G0007140000, A61H0003020000, G01V0007100000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Shishir kumar Biswas</b>
(33) Name of priority country	:NA	<b>2)Jayanta Kumar Biswas</b>
(86) International Application No	:NA	<b>3)Anal Ranjan Sengupta</b>
Filing Date	:NA	<b>4)Thia Paul</b>
(87) International Publication No	: NA	<b>5)Arnab Kundu</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Palash Biswas</b>
Filing Date	:NA	<b>7)Anirban Sarkar</b>
(62) Divisional to Application Number	:NA	<b>8)Subhasish haldar</b>
Filing Date	:NA	<b>9)Dhiraj Mondol</b>
		<b>10)Munshi Rashidul Islam</b>
		<b>11)Bikash Chandra Bhunia</b>
		<b>12)Prashanta Kumar Bardhan,</b>
		<b>13)Sandip Ghosh.</b>

(57) Abstract :

The present invention relates to a helping wheelchair for climbing stair. The present invention specifically relates to healthcare industry and helping vision based smart stair-climbing wheelchair. The helping wheel chair of the present invention helps differently abled persons and elderly patients to improve their life style.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931028488 A

(19) INDIA

(22) Date of filing of Application :16/07/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATED GUIDED VEHICLE FOR COLLECTING HOUSEHOLD WASTE •

(51) International classification	:G05D0001020000, B62D0001260000, G06Q0010060000, B65F0003000000, B65F0003020000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Subhasish Halder</b>
(33) Name of priority country	:NA	<b>2)Shishir Kumar Biswas</b>
(86) International Application No	:NA	<b>3)Palash biswas</b>
Filing Date	:NA	<b>4)Anirban Sarkar</b>
(87) International Publication No	: NA	<b>5)Munshi Rasidul Islam</b>
(61) Patent of Addition to Application	:NA	<b>6)Bikash Bhunia</b>
Number	:NA	<b>7)Dhiraj Mondal</b>
Filing Date	:NA	<b>8)Thia Paul</b>
(62) Divisional to Application Number	:NA	<b>9)Arnab Kundu</b>
Filing Date	:NA	

(57) Abstract :

Automated Waste Collecting Vehicle, abbreviated as AWCV, is an automated guided vehicle that follows marks or line on the ground which acts as the guided path to reach its destinations. The project uses IR sensor as its vision.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931031412 A

(19) INDIA

(22) Date of filing of Application :02/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATIC AND MANUAL CONTROL OF WATER PUMP AND MONITORING USING MOBILE APPLICATION •

(51) International classification :E03B0011160000,  
F04D0015020000,  
F04B0049025000,  
G01F0023240000,  
G01F0023000000

(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)JIS COLLEGE OF ENGINEERING**

Address of Applicant :Block A, Phase III, Dist. Nadia,  
Kalyani, West Bengal- 741235

(72)Name of Inventor :

**1)Indranath Sarkar**

**2)Arindam Banerjee**

**3)Aniruddha Ghosh**

**4)Mainuck Das**

**5)Sheikh Suman**

**6)Arvik Sain**

**7)Sritama Ghosh**

**8)Tanoy Pandit**

**9)Souvik Biswas**

**10)Sumit Saha**

(57) Abstract :

In the market, the automatic water pump system is available based on pressure sensor and we need two pressure sensors to detect upper and lower level of water. The system doesnt provide any manual operation. But in this system, we have made an auto pumping operation based on the water level sensing using only one sensor (ultra sonic). Here we can monitor the water level (water level is indicated in terms of percentage) using LCD display whereas in the market, level detection has been made using LED indicator. In addition to that, we are providing a manual system for time setting to run the motor (time can be set as per requirement). As for example, if we want to switch on the pump for 1minute or 2minutes or 1hour (depends upon user), then the value can be set through keypad. After setting the value, microcontroller turns on the pump and a timing countdown is displayed on the LCD display and at the end of the countdown, pump is automatically turned off. The monitoring of the water level can also be visualized easily with the help of an Android application which has also been designed by us.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931031413 A

(19) INDIA

(22) Date of filing of Application :02/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : VACUUM CLEANER-CLUSTICO •

(51) International classification	:A47L0009240000, A47L0009000000, A47L0009100000, A47L0011400000, A47L0009200000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Shreyans Tiwari</b>
(33) Name of priority country	:NA	<b>2)Suparna Dasgupta</b>
(86) International Application No	:NA	<b>3)Soumyabrata Saha</b>
Filing Date	:NA	<b>4)Debashish Sanki</b>
(87) International Publication No	: NA	<b>5)Sumit Das</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Rupashri Barik</b>
Filing Date	:NA	<b>7)Annwasha Banerjee,</b>
(62) Divisional to Application Number	:NA	<b>8)Prolay Ghosh,</b>
Filing Date	:NA	<b>9)Tanusree Saha,</b>
		<b>10)Aniruddha Biswas.</b>

(57) Abstract :

Dust removing problem are increasing more and more now a days. Hence it has become necessary to provide some equipment for removing dust. Generally little equipment has been evolved in the market for cleaning the dust particles which are known as vacuum cleaner. But these vacuum cleaner costs more in the market and not every human being can afford it. These devices need an electrical energy for its operation and not user friendly. In India, especially in summer, there is power crisis and most of the cleaning machine is not used effectively due to this problem. Hence it is a need to develop low cost, user friendly vacuum cleaning machine. In this project, an effort has been made to develop a manually operated vacuum cleaning machine so that it can be an alternative for conventional vacuum cleaning machines.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931031414 A

(19) INDIA

(22) Date of filing of Application :02/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : EASY SOLUTION FOR WILD LIFE PROTECTION •

(51) International classification	:A61K0031220000, A61K0031440000, G08B0005000000, A61K0009000000, A01K0003000000	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Sabyasachi Sen</b>
(33) Name of priority country	:NA	<b>2)Ms. Rinki Bhowmick</b>
(86) International Application No	:NA	<b>3)SUBHADIP BHATTACHARJEE</b>
Filing Date	:NA	<b>4)SUDEB SAHA</b>
(87) International Publication No	: NA	<b>5)SHUVAM GUPTA</b>
(61) Patent of Addition to Application	:NA	<b>6)ARITRYA ROY</b>
Number	:NA	<b>7)SAROJ KARMAkar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention will develop a new type of signaling system which will help to reduce the occurrence of the of railway accidents in which large amount of wild animals like- Elephants, Deer, Rhino etc were died. From the research automatic signaling system has been developed which will detect the Infrared beam reflected from the wild animals and turn on the red signal. By this process the locomotive driver will get alert and he may slow down or stop the train to save the wild animals.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931031415 A

(19) INDIA

(22) Date of filing of Application :02/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A LOW COST GREEN ROOFTOP DESIGN

(51) International classification	:F24F0005000000, F24F0011300000, F24F0011620000, F25B0049020000, F25B0029000000	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Kaustav Das</b>
(33) Name of priority country	:NA	<b>2)Dr. Debasish Das,</b>
(86) International Application No	:NA	<b>3)Mr. Subhojit Chattaraj</b>
Filing Date	:NA	<b>4)Mr. Sumit Bose</b>
(87) International Publication No	: NA	<b>5)Saptwasara Guha</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Chowdhury nahidur rahaman</b>
Filing Date	:NA	<b>7)Sourav Das</b>
(62) Divisional to Application Number	:NA	<b>8)Pritam Acharjee</b>
Filing Date	:NA	<b>9)Subhadip Sengupta</b>

(57) Abstract :

Now-a-days the interior of building is made comfortable as required, with the help of electromechanical devices, air conditioners and other cooling devices. Such devices consume substantial power which increases with increase of cooling load of the building. In order to reduce power consumption in a building the cooling load is required to be reduced. About 50 % of heat gain is contributed by the roof therefore it is important to study the method of roof heat gain reduction by conducting suitable experiments. This project work presents the method of Alternative Techniques to Air Conditioning in the country which helps to reduce the consumption of energy which is now a day utilized by conventional Air Conditioning

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

(54) Title of the invention : SMART TOILET •

(51) International classification	:A61G0007100000, A47K0017020000, G09B0021000000, G01N0029240000, G06F0003048800	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Sabyasachi Sen</b>
(33) Name of priority country	:NA	<b>2)Ms. Rinki Bhowmick</b>
(86) International Application No	:NA	<b>3)Pratnadeep Biswas</b>
Filing Date	:NA	<b>4)Rahul Das</b>
(87) International Publication No	: NA	<b>5)Lav Kush Kumar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Ayantika Ghosh</b>
Filing Date	:NA	<b>7)SK Nasim</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The main moto is to make washroom accessible for every sector of our country in more advanced way. We have made it portable so every type of people can access this mainly disabled person. We have construct it based on embedded system which is purely IoT based so that person can operate it without touch and with their voice, and also with their phone. It will decrease the diseases which generate due to use of dirty toilet due to touch of it. Also by attaching wheel we can make it portable.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931031419 A

(19) INDIA

(22) Date of filing of Application :02/08/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : TRIBRID IOT BASED SMART WASHING MACHINE

(51) International classification	:H02J0003380000, H02J0003160000, F24D0011000000, F03B0013060000, G06Q0050060000	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. ABHISHEK DHAR</b>
(33) Name of priority country	:NA	<b>2)Mr. SUDIP DAS</b>
(86) International Application No	:NA	<b>3)Dr. PAPUN BISWAS</b>
Filing Date	:NA	<b>4)PRITAM SAHA</b>
(87) International Publication No	: NA	<b>5)PIYASA DAS</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

With the rapid depletion of fuel reserves, it is feared that the world will soon run out of energy resources. This is a matter of concern for developing countries whose economy heavily leans on its use of energy. Under this circumstance it is highly desirable that renewable energy resources should be utilized with maximum conservation efficiency to cope with the ever-increasing energy demand. However, solar and wind resources are intermittent type and thus cannot be considered as reliable sources of power. In order to have a continuous and reliable energy supply, water storage and generator and turbine are essential. Therefore in order to satisfy the load demand the combination of solar and conventional conversion unit are now being implemented as a grid connected energy system.

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

(54) Title of the invention : A NOVEL BIOGAS PLANT DIGESTER MANAGEMENT USING AI BASED FUZZY LOGIC AND INTERNET OF THINGS

(51) International classification	:H04L0029080000, H03K0003356000, H04W0012040000, A61B0017000000, A01N0063040000	(71)Name of Applicant : <b>1)DR.BP MISHRA</b> Address of Applicant :GITA ENGINEERING COLLEGE,BADARAGHUNATHPUR,BESIDE NH- 5,JANLA,BHUBANESWAR,ODISHA-752054 <b>2)DR.MANMATHA K.ROUL</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR.BP MISHRA</b>
(33) Name of priority country	:NA	<b>2)DR.MANMATHA K.ROUL</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 :

Biogas plants are not popular due to seasonal fluctuation in methane production and cleaning/maintenance of inner inaccessible regions of the digester. In the present development, rules based IOT linked management system for a biogas plant operation made. This will make the biogas plant more acceptable and popular. More biogas plant in rural area will reduce mosquito / fly breeding and help for a cleaner environment. Global warming issue due to methane from cow dung can be also addressed. The additional energy and fertilizer for organic crop production can be produced using biogas plant. The slurry level, biogas produced, temperature of the biogas plant and operating parameters are monitored with AI rules programmed for the biogas plant. The logics /parameters used proven parameters for varying locations. The data from the sensors will be transmitted from the biogas plant to the mobiles for online monitoring of the parameters of the biogas plant. The corrective actions are also automated. The control points can also be monitored on the dashboard screen of any android phone. All the parameters are meticulously monitored using the microcontroller (raspberry pi) micro controller. The production efficiency will increase as agitation motorized and powered by solar power. Night time the plant will have data transfer and heating provision but the agitation will not be performed as the plant do not have battery backup services. Slurry level, Slurry volume, temperature, pressure, TSS, gas pressure, removal of water from water traps, ambient environment data will be collected and used.

No. of Pages : 5 No. of Claims : 8

(54) Title of the invention : A NOVEL WASTE BIN TO SECURE THE WASTES USING ARTIFICIAL INTELLIGENCE TECHNIQUE

(51) International classification	:H04L0029080000, H03K0003356000, H04W0012040000, A61B0017000000, A01N0063040000	(71)Name of Applicant : <b>1)MR.PATITAPABAN PANDA</b> Address of Applicant :GIFT ENGINEERING COLLEGE,BHUBANESWAR, ODISHA-752054 Orissa India <b>2)MR.CHINMAYANANDA PADHY</b> <b>3)MS.RASHMI RANI PANDA</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MR.PATITAPABAN PANDA</b>
(33) Name of priority country	:NA	<b>2)MR.CHINMAYANANDA PADHY</b>
(86) International Application No	:NA	<b>3)MS.RASHMI RANI PANDA</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 :

One of the major problems in cities are segregation of wastes and waste management that our country faces . With rapid growth, the waste gets dumped by day and the country faces a challenge in waste Management. Most of the cities lack in waste management as they do not monitor waste collection or waste segregation or waste drop spoilage within the cities. This ultimately yield to health risk and creates an unpleasant environment. To resolve the above problems, waste bin is formulated with the provision of auto clean sensors as shown in fig (1) for flaw less data capture and collection , spray insecticides using (AI) Machine Learning Algorithm as shown in fig (1) and thereby preventing and detecting the disobedient users to drop the wastes in right place. The software is based on Machine Learning Algorithm. The camera as shown in fig (1) through appropriate machine learning algorithm can detect foul smelling wastes and dirt water clogging places and can spray automatically appropriate insecticides/ perfumes to male the place hygienically protected and not allow the place to become breeding point for deadly mosquitoes, insects or germs and keep the place smell clean and fresh.

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

(54) Title of the invention : A NOVEL SMART INTELLIGENT COMBINED GREEN POWER-OPERATED AERATOR FOR GROWTH OF FISH

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71)Name of Applicant : <b>1)DR.BP MISHRA</b> Address of Applicant :GITA ENGINEERING COLLEGE,BADARAGHUNATHPUR,BESIDE NH- 5,JANLA,BHUBANESWAR,ODISHA-752054 Orissa India <b>2)DR.MANMATHA K ROUL</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)DR.BP MISHRA</b> <b>2)DR.MANMATHA K.ROUL</b>
(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 :

Fish farming provides nutrient supplement to human being. Oxygen concentration of 8-9 ppm helps the fish growth. Aerators commercially available fails to increase oxygen concentration rapidly in waterbody. Nano diffuser, water jet and spinning coir rope have been combined to add oxygen to water of fish farming pond. The logic developed to combine these three operations for best result. It has been observed that the use of water jet is less in summer, and more in other season. Diffuser has best performance and used round the year. The scrubber made of coir rope has maximum oxygen incorporation with low energy. Evaporation loss is higher when this device is used to add oxygen to water in fish pond. 2X300 watt solar panels are used to supply power for operation and control of three dc motors used in this aerator. Controller has low power requiring WI-FI device to monitor the oxygen concentration of the place of operation. It has GPS navigation system to change its place and operate to increase Oxygen concentration till 8-9 ppm and changes its place. The aerator can be controlled with a GPS chip and raspberry pi microprocessor. The aerator operates in day time and remains idle in night time. Costing has been made for this aerator. Aerator uses fuzzy logic for controlling its operation sequence.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021130 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DTMF BASED ROBOT CONTROLLER

(51) International classification	:E05B0019000000, H04M0011000000, E05B0063000000, H04Q0001450000, C07D0519000000	(71)Name of Applicant : <b>1)JIS College of Engineering</b> Address of Applicant :Block-A, Phase-III, Kalyani-741235, West Bengal, India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Dharmpal Singh</b>
(33) Name of priority country	:NA	<b>2)Prithwijit Das</b>
(86) International Application No	:NA	<b>3)Suravi Kar</b>
Filing Date	:NA	<b>4)Shashank Kumar Bharti</b>
(87) International Publication No	: NA	<b>5)Shrijoyee Roy</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Shiwanshu Kumar Jha</b>
Filing Date	:NA	<b>7)Josimuddin Mullick</b>
(62) Divisional to Application Number	:NA	<b>8)Mr. Sudipta Sahana</b>
Filing Date	:NA	<b>9)Ms. Pranati Rakshit</b>
		<b>10)Ms. Sonali Bhattacharya</b>
		<b>11)Ms. Ira Nath</b>
		<b>12)Ms. Debasree Mitra</b>
		<b>13)Mr. Apurba Paul</b>
		<b>14)Mr. Sumanta Chatterjee</b>
		<b>15)Dr. Bikramjit Sarkar</b>

(57) Abstract :

1) This work illustrates the theoretical concept of construction as well as the different functions of a modular smart remote controlled fieldtractor with the capability of being controlled over phone calls. This capability of the tractor is implemented by the use of DTMF Decoder. We overcame the drawbacks of Radio Frequency communication which have a limited range whereas this tractor can be controlled from anywhere just using this DTMF technology. Moreover, to safeguard the vehicle an RFID locking system is introduced in it which is far better than the traditionally used locks and keys on the basis of encryption.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021131 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROJECT PARIJAT

(51) International classification	:A41G0001000000, A01N0065080000, A23L0007000000, G06F0003048800, A63C0017010000	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235, India.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Sabyasachi Sen</b>
(33) Name of priority country	:NA	<b>2)Mehul Kundu</b>
(86) International Application No	:NA	<b>3)Jagannath Adhikari</b>
Filing Date	:NA	<b>4)Bhumika Dutta</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PARIJAT • is a specially designed self diffusing automatic artificial flower. It is a commercial product developed for decorative purposes, tunable essence and music therapy practices. It is a mechanical flower with improvised programs to function in accordance with special senses. PARIJAT is a user friendly product designed in such a way that people from all ages can seek satisfaction after using it. Along with it, PARIJAT brings about no harm to our precious environment as the oils used in it are organic and harmless. All in all, PARIJAT is a product that all sort of users will aggravate to after one use.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021133 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : JANGANAKDWAITO

(51) International classification	:G07C0009000000, B63B0035540000, G08B0021080000, G06M0015000000, G07C0011000000	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235, India.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Niladitya Ghosh</b>
(33) Name of priority country	:NA	<b>2)Soumyadeep Saha</b>
(86) International Application No	:NA	<b>3)Chinmoy Ghosh</b>
Filing Date	:NA	<b>4)Subrata Saha</b>
(87) International Publication No	: NA	<b>5)Tapash Sarkar</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Swarnendu Mondal</b>
Filing Date	:NA	<b>7)Rupashri Barik</b>
(62) Divisional to Application Number	:NA	<b>8)Annwasha Banerjee</b>
Filing Date	:NA	<b>9)Prolay Ghosh</b>

(57) Abstract :

This project can be used to count and display the number of visitors entering. This is a bidirectional counter which means it tracks the persons coming in or going out. The value of the counter will be incremented if a person crosses the entrance gate and will be decremented if a person exits through the gate. LCD screen placed outside the entrance displays this value. In Ferry Ghats the authority conducting the ferry service use to lodge more persons than the number of people determined by the government for extra income. Thus, drowning of passenger boats occur frequently. By using this project, we can save many lives from boat drowning. On exceeding the limited number of people, the buzzer will alert with beep sound and LED will blink. If fat more people are lodged, that can be tracked from this device and fine should be imposed on the ferry authority accordingly. There will be no need of working stuffs for counting people this will reduce the expense of ferry ghats. This will also help in counting the total number of passengers travelled throughout the day.

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

(54) Title of the invention : SMART ENERGY SAVING STREET LIGHT

(51) International classification	:F23G0005460000, C02F0011040000, H02N0011000000, F01B0011000000, H02K0053000000	(71) <b>Name of Applicant :</b> <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Avinash Kumar Gupta,</b>
(33) Name of priority country	:NA	<b>2)Koyel Maji</b>
(86) International Application No	:NA	<b>3)Sumit Das</b>
Filing Date	:NA	<b>4)Prolay Ghosh</b>
(87) International Publication No	: NA	<b>5)Aniruddha Biswas</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Tanusree Saha</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Nowadays electricity is a major problem in India. The sources for generating electricity have been exhausted day by day. Aware of this fact, people are still wasting too much electricity. The sensor light bulb comprises of the motion and heat sensor which acts as an interface for the bulb to glow. If the sensor detects any motion or any heat of the human beings, then it passes the electricity and the bulb will glow, otherwise it will not glow. The sensor bulb is feasible and sustainable in every aspect. It may give an innovation to the world, but also due to this innovation, the cost of bulb may increase. If electricity is being wasted, it indirectly harms the environment. Because for producing electricity, tons of coal is burned and lot pollution is created. If we save electricity, we can save our environment. Conserving electricity benefits not only the individual household, but the community as a whole. By finding ways to cut back on electricity use, you lower your own electricity bill, and if everyone does it, it reduces the total need for energy production. This means the environmental release of fewer greenhouse gases, fewer oil spills and fewer strip mines as well as cleaner air to breathe, cleaner water to drink and better food to eat. This kind of bulb can be commercialize in the market because of the new innovation or technology it gives the market of bulb the huge jump as nowadays technology is advancing in every field so this could be a good item to sell. This product is one of the advancing steps towards the innovative future of bulbs.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021136 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTHOM

(51) International classification	:H04L0012280000, G06F0003140000, H04M0001725000, C23C0028020000, H04W0088060000	(71) <b>Name of Applicant :</b> <b>1)JIS College of Engineering</b> Address of Applicant :Block-A, Phase-III, Kalyani-741235, West Bengal, India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sadirul Islam</b>
(33) Name of priority country	:NA	<b>2)Pralay Shankar Bagchi</b>
(86) International Application No	:NA	<b>3)Suparna Dasgupta,</b>
Filing Date	:NA	<b>4)Soumyabrata Saha</b>
(87) International Publication No	: NA	<b>5)Debashish Sanki</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Annwesh Banerjee</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Yet there is an increasing demand for smart homes, where appliances react automatically to changing environmental conditions and can be easily controlled through one common device. This wireless technology is especially useful in home environment, where there exists hardly any infrastructure to interconnect intelligent appliances. The components which are used in this project are very easily available and very much cost effective.

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

(54) Title of the invention : DOOR STATUS USING IOT

(51) International classification	:H04W0004020000, G08B0013080000, G08B0019000000, H04W0004700000, G08B0013000000	(71)Name of Applicant : <b>1)JIS College of Engineering,</b> Address of Applicant :Block-A, Phase-III, Kalyani-741235, West Bengal, India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Diptesh Pandey</b>
(33) Name of priority country	:NA	<b>2)Barnali Dey</b>
(86) International Application No	:NA	<b>3)Kuheli Saha</b>
Filing Date	:NA	<b>4)Shreya Bhaduri</b>
(87) International Publication No	: NA	<b>5)Nandita Sarkar</b>
(61) Patent of Addition to Application	:NA	<b>6)Soumyabrata Saha</b>
Number	:NA	<b>7)Suparna Dasgupta</b>
Filing Date	:NA	<b>8)Debashish Sanki</b>
(62) Divisional to Application Number	:NA	<b>9)Tanusree Saha</b>
Filing Date	:NA	

(57) Abstract :

It is needless to say, how security is important for an individual. So, this project will help an individual for the better privacy and security, one does not have to be dependent on others . on the other hand, The door plays an important role in home security. So, providing a secured door status system or door notification system for houses has become a vital research. The goal is to implement a home security system by integrating smart phone and IOT. IOT(Internet Of Things) Home Security system where we will be able to get the notification on our phone every time if the gate or the door is opened or not. Here, we are using Node MCU with Blynk App (Know more about Blynk). The sensor which we are using is a Magnetic Door Switch and is readily available at any electronic shop. It is basically a reel switch that gets ON when subjected to a magnet nearby. It is very cheap and can be made easily, using some basic components and wi-fi or internet connection.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021139 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DESIGN OF INTEGRATED SYSTEM TO ASSESS THE CAUSE OF RAILWAY ACCIDENT •

(51) International classification	:G06Q0010040000, G06Q0040080000, G01N0021770000, A61B0005145000, G09B0019000000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235, India.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Dharmpal Singh</b>
(33) Name of priority country	:NA	<b>2)Mr. Sumanta Chatterjee,</b>
(86) International Application No	:NA	<b>3)Mr. Apurba Paul</b>
Filing Date	:NA	<b>4)Sattik Das</b>
(87) International Publication No	: NA	<b>5)Nivedita Pandit</b>
(61) Patent of Addition to Application	:NA	<b>6)Nandita Gupta</b>
Number	:NA	<b>7)Anjali Ray</b>
Filing Date	:NA	<b>8)Mr. Sudipta Sahana</b>
(62) Divisional to Application Number	:NA	<b>9)Dr.. Pranati Rakshit,</b>
Filing Date	:NA	<b>10)Ms. Sonali Bhattacharya</b>
		<b>11)Ms. Ira Nath,</b>
		<b>12)Ms. Debasree Mitra,</b>
		<b>13)Mr. Amit Majumder</b>
		<b>14)Dr. Bikramjit Sarkar</b>
		<b>15)Ms. Jhuma Mistry</b>

(57) Abstract :

Indian Railways (IR) is one of the sources of technical growth, economic growth and development progress in India. Its safety is not just a part of national concern but also bring the responsibly and challenges for the researcher of this country to optimized the safety using some meaningful tools. It has been observed that researchers have done analysis to provide the security/safety measure but which factor impact the analysis most has not been assessed. Therefore, in this work an effort has been made to analysis the causes of rail accident occurred during the period from 2002-2015 using the concept statistical tools. The concept of factor analysis has been used to select the major factor that caused the railways accident in the future and the least square based method has been used to predict the number of people may kill in the forthcoming year due to rail accident.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021140 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IOT BASED AUTOMATIC PLANT WATERING AND TANK FILLING SYSTEM •

(51) International classification	:A01G0027000000, G05B0015020000, G05B0019042000, H02J0007000000, A01K0039020000	(71)Name of Applicant : <b>1)JIS COLLEGE OF ENGINEERING</b> Address of Applicant :An Indian Institution Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235, India.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Mr. Sumanta Chatterjee</b>
(33) Name of priority country	:NA	<b>2)Mr. Apurba Paul</b>
(86) International Application No	:NA	<b>3)Sattik Das</b>
Filing Date	:NA	<b>4)Nivedita Pandit</b>
(87) International Publication No	: NA	<b>5)Nandita Gupta</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Anjali Ray</b>
Filing Date	:NA	<b>7)Mr. Sudipta Sahana</b>
(62) Divisional to Application Number	:NA	<b>8)Ms. Pranati Rakshit</b>
Filing Date	:NA	<b>9)Ms. Sonali Bhattacharya</b>
		<b>10)Ms. Ira Nath</b>
		<b>11)Ms. Debasree Mitra</b>
		<b>12)Mr. Amit Majumder</b>
		<b>13)Dr. Bikramjit Sarkar</b>

(57) Abstract :

The life in the villages of India is full of hardships the major reason for which is the lack of infrastructure in the fields of agriculture. The field of agriculture demands special attention while developing a village. It founds that at many places in India, the farmers face problems in irrigation sometimes due to excessive water while at other times due to a scarcity of water. Considering the number of people dependent on agriculture and the importance of irrigation, authors thought of an idea to develop an automated intelligent irrigation system • which can automatically detect and amount of water present in the soil and irrigate the field with the adequate amount of water. The manpower required in agriculture will be reduced thereby reducing the cost of farming. This will allow them to do some other jobs along with farming and thereby supplement their earnings. This device will also be a low-cost device so that the farmers can easily afford it. This will lead to an increase in the net profit of the farmers thereby upgrading their quality of living. It will not involve much cost; therefore, it will be economically feasible and easy to produce in larger quantity. The speculation is that this device, if made available to a large number of farmers, can bring about a transforming change in the field of agriculture and improve the quality of life of the farmer to a great extent.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031021141 A

(19) INDIA

(22) Date of filing of Application :19/05/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : IOT BASED AUTOMATIC PLANT WATERING AND TANK FILLING SYSTEM

(51) International classification	:A01G0027000000, G05B0015020000, G05B0019042000, H02J0007000000, A01K0039020000	(71)Name of Applicant : <b>1)JIS College of Engineering</b> Address of Applicant :Block A, Phase III, Dist. Nadia, Kalyani, West Bengal- 741235
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Mr. Sumanta Chatterjee</b>
(33) Name of priority country	:NA	<b>2)Mr. Apurba Paul</b>
(86) International Application No	:NA	<b>3)Sattik Das</b>
Filing Date	:NA	<b>4)Nivedita Pandit</b>
(87) International Publication No	: NA	<b>5)Nandita Gupta</b>
(61) Patent of Addition to Application	:NA	<b>6)Anjali Ray</b>
Number	:NA	<b>7)Mr. Sudipta Sahana,</b>
Filing Date	:NA	<b>8)Ms. Pranati Rakshit,</b>
(62) Divisional to Application Number	:NA	<b>9)Ms.Sonali Bhattacharya,</b>
Filing Date	:NA	<b>10)Ms. Ira Nath,</b>
		<b>11)Ms. Debasree Mitra</b>
		<b>12)Mr. Amit Majumder</b>
		<b>13)Dr. Bikramjit Sarkar</b>

(57) Abstract :

The Internet of Things (IOT) defines that objects are interconnected through wired and wireless networks without user intervention. The current IOT perform, sensing, actuating, data gathering, storing, and processing by connecting physical or virtual devices to the Internet. In this innovative work a model of automated plant watering system has been proposed. It is a model of controlling watering system to the plants. Automatic plant watering system is a technological solution that enables automating the bulk of electronic, electrical and technology based task within a home or in the garden. It uses a combination of hardware and software technology that enables control and management of water supply to the plants automatically.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024135 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AI BASED METHOD AND APPARATUS FOR STAMPING DRIVING ASSISTANCE BASED SIGNS ON A ROAD

(51) International classification	:G05D0001000000, G05D0001020000, G06N0003080000, G08G0001096700, G06N0003040000	(71)Name of Applicant : <b>1)Pof.(Dr.) Sunil Kumar Dhal</b> Address of Applicant :Professor, Faculty of Management Studies SRI SRI UNIVERSITY, Cuttack, Odisha <b>2)Dr Srinivas Prasad</b> <b>3)Dr D Haritha</b> <b>4)Dr. Rabinarayan Satpathy</b> <b>5)Dr. Dwiti Krishna Bebarta</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Pof.(Dr.) Sunil Kumar Dhal</b> <b>2)Dr Srinivas Prasad</b> <b>3)Dr D Haritha</b> <b>4)Dr. Rabinarayan Satpathy</b> <b>5)Dr. Dwiti Krishna Bebarta</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An artificial intelligence based apparatus and method for stamping driving assistance based signs on a road is provided. The apparatus and method includes controlling operation of a gun to print a plurality of pre-stored signs to be printed on the road based on artificial intelligence. The AI based apparatus continually learns the road conditions and road surface parameters details so that when the gun operates autonomously it can imitate the same movements executed by the gun in the past to select the at least one sign from a plurality of pre-stored signs to be printed on the road based the surface area of the road, compute the dimensional parameters of surface, presence of cracks, bumps on the road. The artificial intelligence-electronic control unit can include current mobile technology, fuzzy logic and neural networks that enable the drone to learn automatic selection of the type of sign to be printed based on the road conditions.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031037108 A

(19) INDIA

(22) Date of filing of Application :28/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : BISTABLE COMPLIANT GRIPPER FOR PIPE CLIMBING ROBOT.

(51) International classification	:B25J0013080000, B25J0019020000, B62D0057024000, B25J0015000000, B25J0017020000	(71)Name of Applicant : <b>1)INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI</b> Address of Applicant :GUWAHATI-781039,ASSAM,INDIA
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SAURAV KUMAR DUTTA</b>
(33) Name of priority country	:NA	<b>2)LATE ANNEM NARAYANA REDDY</b>
(86) International Application No	:NA	<b>3)BASIREDDY SANDEEP REDDY</b>
Filing Date	:NA	<b>4)SANTOSHA KUMAR DWIVEDY</b>
(87) International Publication 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 gripper for pipe or pole climbing using a bistable buckled beam. The invention has two plates- Clamping plate (1) and Supporting plate (2) that surrounds the pipe (12) to be gripped, and are held parallel on to each other by bolts (4) and nuts (5). The supporting plate (2) has a fixed pad (7) and the Clamping plate (1) has a pad (6) attached on a bistable buckled beam (3). The said beam (3) is mounted between the sub plate (10) and sub plate (11) at the cut-out portion (13) of the Clamping plate (1). The beam (3) is buckled in for grip or buckled out for non-grip mode of the gripper, by an actuator. The beam (3) alone provides the required gripping force on the pipe (12) and energy is required only to switch between its two states. The parameters of the beam (3) are derived from calculations of the total weight. The gripper requires less energy and can take greater payload due to fewer components used.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031037764 A

(19) INDIA

(22) Date of filing of Application :02/09/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PHOTOVOLTAIC CLEANING AND COOLING SYSTEM

(51) International classification	:H01L0031048000, H02S0040100000, F24S0040200000, B08B0005020000, H02S0020000000	(71)Name of Applicant : <b>1)Dr. Arjyadhara Pradhan</b> Address of Applicant :Assistant Professor (II), School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar, Odisha 751024 India <b>2)Dr.Babita Panda</b> <b>3)Dr. Srikanta Mohapatra</b> <b>4)Biswaranjan Acharya</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Arjyadhara Pradhan</b> <b>2)Dr.Babita Panda</b> <b>3)Dr. Srikanta Mohapatra</b> <b>4)Biswaranjan Acharya</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for protecting top surface of a photovoltaic panel (110) comprising a plurality of photovoltaic cells. A transparent sheet (112) is placed over an upper layer of the PV panel (110) and a thin planar shield (114) is placed over the transparent sheet (112) and acts as a barrier between the PV panels and transparent sheet. A plurality of holders (116) are installed at the corners along the edges of the PV panels for supporting the planar shield. A microcontroller (118) is coupled with an air compressor (124) and membrane vibrators (120) to control the operation of cleaning and cooling of the panels by setting up a timer. The membrane vibrators are placed on the four corners of the PV panels to shake the transparent sheet so that dust particles are dislodged from surface of the PV panels by creating a standing wave at resonant frequency of the planar shield thereby the dust particles loose bond from the surface of the shield.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031038219 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : UNBALANCED TYPE DE/RF BIASED MAGNETRON SPUTTERING NANO-FILM DEPOSITION SYSTEM

(51) International classification :C23C0014350000,  
H01J0037340000,  
C23C0014340000,  
C23C0014500000,  
C23C0014060000

(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)INSTITUTE OF ENGINEERING & MANAGEMENT**  
Address of Applicant :Y-12, EP BLOCK, ELECTRONICS  
COMPLEX, SECTOR-V,SALT LAKE, KOLKATA-700091.

(72)Name of Inventor :  
**1)DR.GOURANGA SUNDAR TAKI**  
**2)MR.SOUMIK KUMAR KUNDU**  
**3)MR.SAMIT KARMAKAR**

(57) Abstract :

This invention relates to a field of method and system for the development of nano-dimensional thin films and nano-structures of various metallic and non-metallic materials. There are several available methods or techniques out of which Physical Vapour Deposition (PVD) exhibits utmost purity because this technique incorporates relatively high vacuum conditions inside the deposition chamber. Sputtering method is one of the most known PVD techniques. In this invention, an unbalanced type DC/RF biased magnetron sputtering apparatus has been designed for the deposition of metallic and non-metallic thin films at the higher deposition rate. The DC discharge in accordance with unbalanced magnetic field distribution and inert atmosphere inside the reactor, produces a stable magnetron discharge plasma. This plasma provides sufficient energy to deposit various target materials to achieve a thin nano-metric film on suitable substrate by sputtering phenomena. The novelty of this invention is the use of a unique sputter-head cooling mechanism, utilizing an adjacent top mating flange as heat sink. The main application of this invention is to develop thin nano-metric films of various materials which may further be used in sensor and photocatalytic application.

No. of Pages : 23 No. of Claims : 8

(54) Title of the invention : IOT BASED NATURAL UV PASSED ROOM AIR STERILIZER

(51) International classification :B01D0053850000,  
A61L0009200000,  
F24F0003160000,  
E03B0003280000,  
A61L0002200000

(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)Bibhu Prasad Ganthia**

Address of Applicant :Assistant Professor, Department of Electrical Engineering, Indira Gandhi Institute of Technology, Sarang, Dhenkanal, Odisha, India, 759146 jb.bibhu@gmail.com

**2)Ritesh Kumar Patel****3)Umapiya R****4)Monalisa Mohanty****5)Subhashree Priyadarshini****6)Dr. I. Jerin Leno****7)Dr.M.Siva Ramkumar****8)Dr. Glorindal Selvam****9)Ramesh M****10)Narasimman****11)Dr.S.Kaliappan****12)Dr. Santhosh P****13)Dr.K.Syed Jafar****14)S. Balamurugan****(72)Name of Inventor :****1)Bibhu Prasad Ganthia****2)Ritesh Kumar Patel****3)Umapiya R****4)Monalisa Mohanty****5)Subhashree Priyadarshini****6)Dr. I. Jerin Leno****7)Dr.M.Siva Ramkumar****8)Dr. Glorindal Selvam****9)Ramesh M****10)Narasimman****11)Dr.S.Kaliappan****12)Dr. Santhosh P****13)Dr.K.Syed Jafar****14)S. Balamurugan****(57) Abstract :**

The invention IOT BASED NATURAL UV PASSED ROOM AIR STERILIZER • is a device for purifying the air which is to be circulated to inside room with the help of specially designed UV absorbing collector. The atmospheric air is circulated through the collector which is exposed to the UV rays of the natural sunlight. The atmospheric air when circulated to the collector, it removes contaminants and sterilize the air completely. The sterilized air later sent to the living room and the quality of same could be monitored with the help of various sensors and the real time data could be monitored with the help of IoT platform. This design removes all level of Pollens, lung damaging dust, smoke, bacteria, viruses, dust mites, and a number of other irritants and microorganisms are commonly found in the ambient atmosphere for healthy life.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031038978 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART MODULAR REGULATING SYSTEM

(51) International classification	:H04L0029080000, G05B0015020000, G05F0001660000, H04L0012280000, H04L0009320000	(71) <b>Name of Applicant :</b> <b>1)Lazot Technologies Private Limited</b> Address of Applicant :Ishani Apartment, 2nd Floor, Flat No.- 2 D, Chinar Park, PO- Hatiara, Kolkata, West Bengal
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)DAS, Abhijit</b>
(33) Name of priority country	:NA	<b>2)MAHATA, Susmita</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 :

The present invention discloses an Internet of Things (IOT) based smart modular regulating system, smart modular regulator and method thereof. This is a Hybrid Regulator System has the features of manual regulator & IOT based spinning mechanism. The basic features of this smart regulator are it works manually even if the circuit is not working. This is a reinvention of regulator which can be controlled by any Smartphone, Smart home assistant. It also provides Electrical consumption of connected device. It is an IOT based automated application which provides multiple features like electrical safety, manual accessibility & controlled through remote application via cloud server connectivity. The uniqueness of the innovation lies in its simple design with effortless spinning mechanism (in regulator). Its user friendly & safety mechanism is suitable for operations by both elderly people and toddler. Also its affordable aspect makes it ideal for the common public.

No. of Pages : 25 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031038979 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART MODULAR SWITCHING SYSTEM

(51) International classification	:H04L0029080000, H05K0001140000, G05B0015020000, H01H0011000000, H01H0009020000	(71)Name of Applicant : <b>1)Lazot Technologies Private Limited</b> Address of Applicant :Ishani Appartment, 2nd Floor, Flat No.- 2 D, Chinar Park, PO- Hatiara, Kolkata West Bengal
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DAS, Abhijit</b>
(33) Name of priority country	:NA	<b>2)MAHATA, Susmita</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 :

The present invention discloses an Internet of Things (IOT) based smart modular switching system, smart modular switch and method thereof. This is an Hybrid Switching System which is a combination of mechanical switch & IOT based Switching Mechanism. The basic features of the smart modular switch are it works manually even if the circuit is not working. This smart modular switch is a reinvention of switch which is retrofit & can be controlled by any Smartphone & Smart home assistant. The smart modular switch also provides Electrical consumption of connected device. This is an IOT based automated application which provides multiple features like electrical safety, manual accessibility & controlled through remote application via cloud server connectivity. The uniqueness of the invention lies in its simple design with effortless toggling mechanism. User friendly mechanism & safety mechanism of this hybrid switching systems is suitable for operations by both elderly people and toddler.

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

(54) Title of the invention : A SYSTEM FOR PRODUCING PAPER BAGS

(51) International classification	:B31B0050000000, G03F0007004000, C04B0035626000, B29L0031100000, B31B0070260000	(71)Name of Applicant : <b>1)Abhinav Roy</b> Address of Applicant :S/o Dr. Pravin Kumar Roy, Ashok Nagar, NH-31, Begusarai, Bihar-851101, India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Abhinav Roy</b>
(32) Priority Date	:NA	<b>2)Amit Sharma</b>
(33) Name of priority country	:NA	<b>3)Garvit Sharma</b>
(86) International Application No	:NA	<b>4)Amit Sheoran</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 :

This invention relates to a system 100 for producing bag from a sheet of paper. The system 100 includes a frame assembly 102. A forming block 104 is securely disposed to the frame assembly 102. A feeder mechanism 108 is configured to feed and arrange the sheet on the forming block 104 to form a front section, a bottom section and a rear section of the bag. The width of the sheet is larger than the width of the forming block 104, and when arranged on the forming block 104, the sheet extends out from each side of the forming block 104. A folding and sealing station 116 is mounted on the frame assembly 102 opposite to each side of the forming block 104. Each of the station 116 is slidably movable on the frame assembly 102, and is configured to fold and seal the sheet extending out from each side of the forming block 104.

No. of Pages : 22 No. of Claims : 15



## 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.201811037952 A

(19) INDIA

(22) Date of filing of Application :08/04/2019

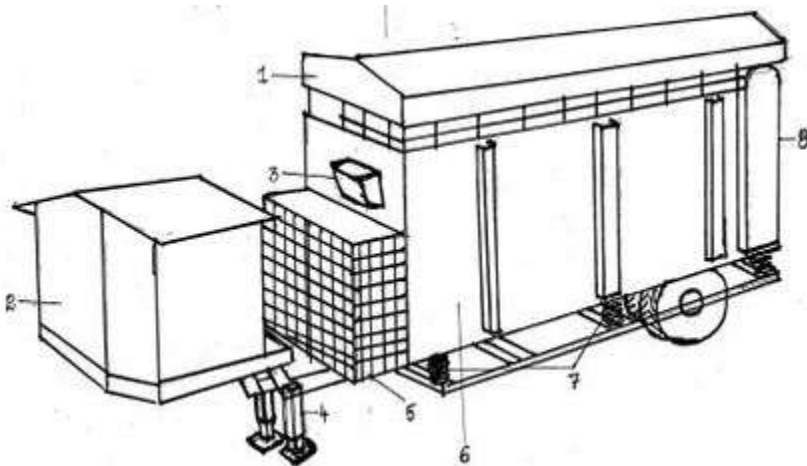
(43) Publication Date : 09/10/2020

(54) Title of the invention : AIR CONDITIONED APIARY MIGRATION UNIT

<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>:A01K0055000000, A01K0047060000, A01K0051000000, A01K0047020000, A01K0053000000</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><b>1)GURDAS SINGH KALER</b></p> <p>Address of Applicant :HOUSE NO. 17 STREET 3 PATIALA PUNJAB-147001, INDIA Punjab India</p> <p>(72)Name of Inventor :</p> <p><b>1)GURDAS SINGH KALER</b></p>
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(57) Abstract :

The present invention relates to an apiary migration unit used by a commercial beekeeper to transport honey bees from one farm to another during the flowering season. To ensure stress free migration of honey bees and to provide conducive temperature, humidity and ventilation, the unit is provided with an air conditioner. The device is also provided with a lifting mechanism to load and unload the hive carriage frames without tilting or tripping them. The unit is also equipped with a suitable suspension for jerk free transport of bees over long distances and irregular terrain. All these features ensure that there is no loss of bees during transit. The unit is also provided with storage space for beekeeping equipment and resting place for bee keepers.



No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013055 A

(19) INDIA

(22) Date of filing of Application :01/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL N-HETEROCYCLIC SCAFFOLDS AS ANTINEOPLASTIC AGENTS

(51) International classification	:C07D0295145000, C07H0005060000, C07D0237340000, C07D0498120000, C07C0233250000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KAPOOR, Mohit</b>
(33) Name of priority country	:NA	<b>2)HSU, Ming Hua</b>
(86) International Application No	:NA	<b>3)CHEN, Jen-Kun</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 :

The present invention relates to novel compounds of Formula I, their pharmaceutically acceptable tautomers, isomers and salts thereof. The present invention further relates to process for preparation of compounds of Formula I. The present invention also relates to novel compounds of Formula I acting as anti-neoplastic agents.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013083 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A METHOD AND SYSTEM FOR SCREENING, DIAGNOSTIC ASSESSMENT AND MANAGEMENT OF SPECIAL NEEDS IN HUMAN BEINGS

(51) International classification	:A61B0005000000, G06Q0050220000, G16H0010600000, G06Q0010000000, A23L0033150000	(71) <b>Name of Applicant :</b> <b>1)VASAL, Mukta</b> Address of Applicant :Tower 15, Flat No- 1601, The Close South, Nirvana Country, Sector- 50, Gurgaon, 122018, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)VASAL, Mukta</b>
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the method and system for management of special needs in human beings. It constitutes Screening, Diagnostic assessment, Report generation, Individualized education plan development, Suggested tools and Techniques for therapy sessions, monitoring the progress of the special needs and analysing the data of each patient for further research purposes. Thus, the present invention would help in providing end to end solution to different stakeholders in the field of special needs. There is no other method or system currently available worldwide, which provides complete solution for different stakeholders.



No. of Pages : 53 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013102 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : VENTILATION OF SEATING SURFACES IN A FLEXIBLE HEAT EXCHANGER SYSTEM

(51) International classification :B60N0002560000,  
A47C0007740000,  
B60H0001000000,  
B32B0003260000,  
F28D0015020000

(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)PADMINI VNA MECHATRONICS PVT. LTD.**

Address of Applicant :Plot No. 100-101, Sector 35, Phase VII,  
Udyog Vihar, Gurgaon, Haryana 122001, India Haryana India

(72)Name of Inventor :

**1)KABIR BHANDARI**

(57) Abstract :

The present invention comprises a ventilation system in a flexible heat exchanger system of a seating assembly. It relates to a flexible layer having perforations positioned underneath the surface of the seat that enables ventilation to control temperature and humidity. The seating assembly comprises of a plurality of layers wherein the seating assembly has an upper layer upon which the occupant is in direct contact with, a middle layer having a heat exchanger system with perforated cooling pads or ventilation system for ventilation and a lower layer which is a cushioned layer having vents. The ventilation system includes but not limited to an array of holes, pores and cavities for maintaining temperature and humidity thus making the seating assembly breathable.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013103 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : MATERIAL FOR FASTER BONE HEALING

(51) International classification	:A61L0027540000, A61L0027360000, A61B0005000000, A61L0027460000, H01M0004580000	(71) <b>Name of Applicant :</b> <b>1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI</b> Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRALAY MAITI</b>
(33) Name of priority country	:NA	<b>2)ARUN KUMAR MAHANTA</b>
(86) International Application No	:NA	<b>3)SAIRAM KRISHNAMURTHY</b>
Filing Date	:NA	<b>4)PANKAJ PALIWAL</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the material for faster bone healing. It relates to the nanohybrid self- degenerating scaffold composed of functionalized graphene oxide, acetic acid and chitosan powder. The nanohybrid self-degenerating scaffold obtained is porous in structure and has a bone healing property. It heals the bone in 75 days. It also releases drug in a controlled manner and is mechanically strong. The nanohybrid self- degenerating scaffold is mechanically stable and biocompatible in nature as MTT assay shows greater cell viability for the nanohybrid.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013104 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : FRICTION REDUCING COATING ON ORTHODONTIC WIRES

(51) International classification	:A61C0007120000, A61C0007280000, C23C0030000000, A61C0007000000, A61C0007200000	(71)Name of Applicant : <b>1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI</b> Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)CHANDAN UPADHYAY</b>
(33) Name of priority country	:NA	<b>2)THAKUR PRASAD CHATURVEDI</b>
(86) International Application No	:NA	<b>3)RAJIV PRAKASH</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 :

The present invention relates to a friction reducing coating on dental appliances. It relates to a coating of nano particles material on orthodontic wire leads to low frictional coefficient, high biocompatibility, corrosion resistance and low stiffness. The coating material reduces frictional coefficient by 37-40% as compared to the state of the art wire and increases the transfer ratio. The present invention also relates to the nano particle coated orthodontic wire in which coating material is a colloidal solution of TiO<sub>2</sub> nanoparticles.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013113 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : WARM AND COOL AERATED MATTRESS

(51) International classification	:A47C0021040000, A47C0027080000, A61F0007000000, A61G0007057000, A47C0027140000	(71) <b>Name of Applicant :</b> <b>1)SHRIDHAR SHARMA</b> Address of Applicant :103, KANWALI ROAD, BEHIND POLICE CHOKI, DEHRADUN, UTTARAKHAND Uttarakhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SHRIDHAR SHARMA</b>
(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 warm and cool aerated mattress is disclosed. The warm and cool aerated mattress comprises of a mattress body, a remote control warm and cool air delivery unit and a connecting tube to connect mattress to air delivery unit for warm and cool air. Also there is an air inlet unit which is connected through a separate tube with the air delivery unit. The air delivery unit delivers warm/cool air to the mattress body via the connecting tube and this air is released via air channels to flow upwards and diffuse through plurality of holes at the upper layer of the mattress body. Thereby, the mattress provides the user with a warming/cooling effect which can be used in cool environment as warm mattress and as cool mattress in hot environment as well. This mattress can be used for regular everyday use and well in hospitals as well as other patients.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013130 A

(19) INDIA

(22) Date of filing of Application :01/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : COLD BREWED COFFEE WITH FRESH MILK HAVING EXTENDED SHELF LIFE AND PROCESS FOR PREPARATION THEREOF

(51) International classification	:A23F0005240000, A23C0009180000, A23C0009156000, A23C0009154000, A23F0005040000	(71) <b>Name of Applicant :</b> <b>1)7 BEANSTALK CO.</b> Address of Applicant :366, Espace Nirvana Country, Sector- 50, Gurgaon, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mohit Sharma</b>
(33) Name of priority country	:NA	<b>2)Lakshmi Juneja</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 :

A ready to drink cold coffee packaged in retort grade pouches, comprising coffee cold brew retort sterilized with fresh milk and sugar wherein the coffee has a shelf life of around six months. The coffee is processed with fresh milk which is free from any preservatives or other additives. Further, the cold coffee, besides fresh milk, incorporates small amount of solid milk to enhance the good mouth feel of the cold coffee. The cold coffee is prepared using high quality coffee beans which are known to have lower acidity.

No. of Pages : 13 No. of Claims : 19



(54) Title of the invention : CONTROLLING THE MULTI-ARM SURGICAL ROBOTS USING COMPUTER VISION-BASED HAND CONTROLS

(51) International classification	:B25J0009160000, G06K0009000000, G05D0001020000, A61K0047600000, H01L0021670000	(71) <b>Name of Applicant :</b> <b>1)SS Innovations China Co. Ltd.</b> Address of Applicant :Room 501, 5th building, No. 291 Fucheng Road, Hangzhou Medicine Valley, Xiasha Economic Development Zone, Hangzhou, Zhejiang China
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Kumar Maddela, Sravan</b>
(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 surgeon input device (309) for controlling a robotic surgical system is disclosed herein. The surgeon input device (309) comprises of a housing (401) configured to be held in a surgeon's hand and at least one marker (403) attached to the housing (401), wherein the at least one marker (403), in operative communication, with at least one optical capturing device (317) configured to detect at least one position and orientation of the at least one marker (403). The surgeon input device (309) further comprises of at least one sensor (405) being disposed within the housing (401), wherein the at least one sensor (405) configured to detect at least one of a position and orientation of the surgeon input device (309) and a processing unit, in operative communication, with the surgeon input device (309) and the at least one optical capturing device (317), to receive a data captured from the at least one sensor (405) and the at least one optical capturing device (317).



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013209 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : GLOVE BOX ACTUATOR

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71)Name of Applicant : <b>1)MINDA CORPORATION LIMITED</b> Address of Applicant :D 6-11 Sector 59 Noida 201301, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SANJEET KUMAR</b>
(33) Name of priority country	:NA	<b>2)RAJESH KUMAR</b>
(86) International Application No	:NA	<b>3)VIKRAM PURI</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 :

The present disclosure relates to a construction and mechanism of the glove box 5 latch for two-wheeler vehicles. The glove box latch (100) comprises a body (2) and an electrical actuator assembly (1). The electrical actuator assembly is attached to the body (2). The electrical actuator assembly (1) comprises a plunger (1a) configured to selectively move from outside to inside the body (2) and a resilience means (1b) configured to energize the plunger (1a). The plunger (1a) comprises a 10 receiving end for receiving a lid (4) thereon. The lid (4) is configured to selectively engage with the plunger (1a) by means of pushing.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013228 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : FLEXIBLE AND LOW COST LEAD-FREE PIEZOELECTRIC COMPOSITES WITH HIGH D33 VALUES

(51) International classification	:H01L0041187000, H01L0041180000, H01L0041370000, H01L0041193000, H01L0041080000	(71) <b>Name of Applicant :</b> <b>1)SABIC Global Technologies B.V.</b> Address of Applicant :Plasticslaan 1, NL-4612 PX Bergen Op Zoom, The Netherlands Netherlands
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KHALIQ Jibrán</b>
(33) Name of priority country	:NA	<b>2)ZWAAG Sybrand van der</b>
(86) International Application No	:NA	<b>3)GROEN Pim</b>
Filing Date	:NA	<b>4)CARAVEO-FRESCAS Jesus Alfonso</b>
(87) International Publication No	: NA	<b>5)GUHATHAKURTA Soma</b>
(61) Patent of Addition to Application Number	:NA	<b>6)VELATE Suresh</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Lead-free piezoelectric composites and methods of making and uses thereof are described. The lead-free piezoelectric composites have high flexibility and high piezoelectric properties.



No. of Pages : 23 No. of Claims : 20

(54) Title of the invention : COMPOSITION COMPRISING A MORUS ALBA EXTRACT, AND ITS COSMETIC USES

(51) International classification	:A61Q0019020000, A61Q0005080000, A61Q0001020000, A61K0008490000, A61Q0019000000	(71) <b>Name of Applicant :</b> <b>1)L'OREAL</b> Address of Applicant :14, rue Royale, 75008 PARIS, FRANCE France
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PANNAKAL STEVE</b>
(33) Name of priority country	:NA	<b>2)SHETTY Sanketh</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 :

The present invention relates to a composition comprising, in a physiologically acceptable medium, at least mulberroside A and mulberroside E. It also relates to cosmetic uses of said composition, especially for depigmenting, lightening and/or bleaching keratin materials, in particular the skin.



No. of Pages : 21 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013250 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : NOVEL PROCESSES FOR THE PREPARATION AND PURIFICATION OF RIVAROXABAN AND ITS INTERMEDIATES

(51) International classification	:C07D0413140000, A61K0031537700, C07D0207273000, C07D0265320000, C07B0063000000	(71)Name of Applicant : <b>1)MOREPEN LABORATORIES LIMITED</b> Address of Applicant :Village & P.O.-Masulkhana, Parwanoo, Distt.Solan, Himachal Pradesh 173220, India Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SURI, Sanjay</b>
(33) Name of priority country	:NA	<b>2)TANWAR, Pal Madan</b>
(86) International Application No	:NA	<b>3)VERMA, Krishan Singh</b>
Filing Date	:NA	<b>4)MISHRA, Kumar Sanjay</b>
(87) International Publication No	: NA	<b>5)AGGARWAL, Kumar Avinash</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the novel processes for preparation & purification of Rivaroxaban & its various intermediates.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013259 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : LEAD-FREE PIEZO COMPOSITES AND METHODS OF MAKING THEREOF

(51) International classification	:H01L0041187000, C09D0183040000, H01M0010056500, C08K0003220000, C09D0011300000	(71) <b>Name of Applicant :</b> <b>1)SABIC Global Technologies B.V.</b> Address of Applicant :Plasticslaan 1, NL-4612 PX Bergen Op Zoom, The Netherlands Netherlands
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)CARAVEO-FRESCAS Jesus Alfonso</b>
(33) Name of priority country	:NA	<b>2)GUHATHAKURTA Soma</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 :

Methods of producing lead-free piezoelectric composites are described. The method can include adding a lead-free piezoelectric additive to a solution that includes a solvent and polymer solubilized therein. The solvent can have boiling point > 80 °C at 0.1 MPa and a solubility in water of > 0.1 g/g. The solvent can be removed to form a polymeric matrix having the lead-free piezoelectric particles dispersed therein. Electrical treatment of the polymeric matrix can form the piezoelectric component. Lead-free piezoelectric composites and devices that include the lead-free



No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013288 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : ENHANCEMENT TO THE IS-IS PROTOCOL FOR ELIMINATING UNWANTED NETWORK TRAFFIC

(51) International classification	:H04L0012757000, G10L0019070000, G06F0012083100, H04L0012440000, H04L0012723000	(71) <b>Name of Applicant :</b> <b>1)Ciena Corporation</b> Address of Applicant :7035 Ridge Road, Hanover, Maryland 21076, United States of America U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sharma Navjot</b>
(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 :

Systems and methods for enhancing a routing protocol of a telecommunications network (10) are provided. In one embodiment, a method for enhancing the Intermediate System to Intermediate System (IS-IS) routing protocol is provided. The method includes the steps of determining if a password on a received Link State Protocol data unit (LSP) is authenticated and determining if the LSP is generated by an authenticated node (30). If the LSP password is not authenticated or the LSP is not generated by an authenticated node (30), the method further includes the step of setting a lifetime expiration timer of the LSP to zero.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013291 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SHUTTER FOR FUEL TANK CAP LOCK

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) <b>Name of Applicant :</b> <b>1)MINDA CORPORATION LIMITED</b> Address of Applicant :D 6-11, Sector 59, Noida 201301, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ABHISHEK KUMAR</b>
(33) Name of priority country	:NA	<b>2)SUSHIL SHARMA</b>
(86) International Application No	:NA	<b>3)KHURRAM ALI BAIG</b>
Filing Date	:NA	<b>4)VIKRAM PURI</b>
(87) International Publication 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 assembly (10) of cap for a fuel tank is disclosed. The cap has a lock for locking the cap over the fuel tank. The assembly (10) includes a cover (14) that defines an opening (18) for access to the lock. The assembly (10) has a shutter (16) having a plate (32) configured to cover the opening (18) and a shaft (34) extending from the plate (32). The shaft (34) is configured for passing through a hole (40) defined in the cover (14). A groove (42) is defined at a distal end of the shaft (34). A circlip (44) is inserted in the groove (42) for retaining the shutter (16) on the cover (14).



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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013320 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PROCESS OF ISOLATING AND CULTURING OF PRIMARY MAMMARY EPITHELIAL CELLS (PMECS) FROM CAPRINE AND BOVINE RAW MILK COMPRISING STEPS

(51) International classification	:C07K0016040000, A61K0038180000, C12N0005095000, A23C0007040000, B01J0021160000	(71)Name of Applicant : <b>1)SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES &amp; TECHNOLOGY OF KASHMIR (SKUAST-K)</b> Address of Applicant :Shalimar, Srinagar, Jammu and Kashmir, India 190025 Jammu & Kashmir India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)AHMAD, Syed, Mudasir</b>
(33) Name of priority country	:NA	<b>2)MUMTAZ, Peerzada, Tajamul</b>
(86) International Application No	:NA	<b>3)TABAN, Qamar</b>
Filing Date	:NA	<b>4)SHAH, Riaz, Ahmad</b>
(87) International Publication 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 of isolating and culturing of primary mammary epithelial cells (pMECs) from caprine and bovine raw milk comprising steps of: (i) obtaining raw milk from goat or cow in sterile conditions; (ii) defatting milk by centrifugation at 2500 rpm at suitable temperature and time and removing skimmed milk; (iii) suspending pellets in DPBS and centrifuging twice at 2500 rpm for suitable time to obtain final pellets; (iv) mixing said final pellets with high glucose (4500 mg/L) containing media DMEM; (v) seeding said final pellets for growth and attachment in basal DMEM media with supplements comprising 20% FBS, 1ul/ml Penicillin, 1ul/ml Gentamycin, 1ul/ml Streptomycin, 1 ul/ml Polymyxin B, 1 ul/ml Amphotericin and 1 ul/ml Epidermal growth factor under suitable conditions for 24 hours; (vi) seeding pellets with high glucose (4500 mg/L) containing media DMEM and FBS, Antibiotics and EGF and incubating for 24 hours; (vii) washing twice with DPBS to obtain visibly attached mammary epithelial cells; (viii) further growing said mammary epithelial cells until confluency in high glucose (4500 mg/L) containing media DMEM, 10% FBS, Antibiotics and EGF.



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

(54) Title of the invention : PROTECTOR ASSEMBLIES FOR PROTECTING WIRES EXTENDING OUT FROM CORRUGATED TUBES

(51) International classification	:B60R0016020000, H02G0003040000, H02G0003060000, F16L0011110000, H01B0007000000	(71)Name of Applicant : <b>1)MOTHERSON SUMI SYSTEMS LIMITED</b> Address of Applicant :Motherson Sumi Systems Limited, A3, Sector-84 Distt. Gautam Budh nagar, Noida-Uttar Pradesh 201304, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)PANDIT, Nawal Kishor</b>
(33) Name of priority country	:NA	<b>2)THAKUR, Vikas</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 :

A protector assembly (406) comprises a first body portion (100) and a second body portion (300). The first body portion (100) is coupled to the second body portion (300) to form a convoluted conduit for the corrugated tube (204) and the wire harness (202). Further, the first body portion (100) comprises a first ring type element (102), a first semi-tubular element (108) and a first connecting member (104). The first connecting member (104) has a first rib (106) on an inner surface which reduces the inner diameter of the convoluted conduit. The first ring type element (102) receives the wire harness (202) covered with the corrugated tube (204). The first semi-tubular element (108) receives the wire harness (202) as the corrugated tube (204) is held by the first rib (106).



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

(54) Title of the invention : THERAPEUTIC APPARATUS FOR ADAPTIVE JOINT THERAPY BASED ON QUANTIFIED ASHWORTH AND MODIFIED ASHWORTH SCALE

(51) International classification	:A61M0005172000, A61B0005110000, A61B0005107000, A61H0001020000, A61B0005000000	(71)Name of Applicant : <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India <b>2)INDIAN SPINAL INJURIES CENTRE</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)NEELESH KUMAR</b>
(33) Name of priority country	:NA	<b>2)KASHIF ISLAM KHAN SHERWANI</b>
(86) International Application No	:NA	<b>3)RATAN DAS</b>
Filing Date	:NA	<b>4)CHITRA KATARIA</b>
(87) International Publication 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 closed loop therapeutic apparatus is disclosed. The invention is used to give the therapy to reduce the joint spasticity. The patient wears the developed therapeutic apparatus for ankle joint but not limited to it The spasticity of the joint is measured by convolving the signals from the developed insoles, strap pressure, muscles, joint torque and load current. This spasticity is further graded into Ashworth scale and Modified Ashworth scale. Based on the spasticity level of the patient, required torque, range of motion and speed is provided to the joint by the therapeutic apparatus. The spasticity grade is continuously monitored making it an adaptive closed loop system. Visual, audio and vibration feedback are also provided to the patient during the therapy.



No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013439 A

(19) INDIA

(22) Date of filing of Application :03/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : FIBER BRAGG GRATING SENSOR MODULE TO ACQUIRE TEMPERATURE AND VIBRATION COMPENSATED ABSOLUTE MECHANICAL STRAIN FOR ONLINE MONITORING OF CURRENT COLLECTOR OF AN ELECTRIC VEHICLE

(51) International classification	:G01L0001240000, G01M0011080000, G02B0006020000, G01K0011320000, A61B0005000000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BASUMALLICK NANDINI</b>
(33) Name of priority country	:NA	<b>2)BANDYOPADHYAY SOMNATH</b>
(86) International Application No	:NA	<b>3)BISWAS PALAS</b>
Filing Date	:NA	<b>4)MITRA BIPLAB</b>
(87) International Publication No	: NA	<b>5)DASGUPTA KAMAL</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fiber Bragg grating (FBG) sensor module to acquire temperature and vibration compensated absolute mechanical strain for online monitoring of current collector of an electric vehicle is described. This is achieved by designing a sensor housing made of aluminium, which is the same material as that of the carrier, with two sections, one attached to the carrier and the other having no contact with the carrier, with two FBGs in a single fiber attached to it, one in each section, and with a slot for fixing the fiber. The FBG sensor module can easily be riveted to the carrier where the strain developed due to the contact force is maximum, without compromising on the strain transfer from the CC to the fiber. The invention also has provision for extracting the vibration signature of the CC and maximizing the mechanical strain experienced by the FBG.



No. of Pages : 35 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013441 A

(19) INDIA

(22) Date of filing of Application :03/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : PULSE BED MINERAL, MATERIAL AND AGGREGATE WASHING AND CLASSIFICATION SYSTEM

(51) International classification	:B03B0009000000, C08J0011060000, G01N0035000000, B03B0005000000, B03B0007000000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RANJAN KUMAR DWARI</b>
(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 an equipment and method for gravity-based scrubbing and pre-concentrating and for separating and washing clays, shale, and contaminants from different types of ore and materials. More particularly, the present invention relates to gentle attrition, high throughput, small space, few additional fine generation, generation of clean coarse product, heavy fines and light fines. The invention relates to a novel and improved machine (pulse scrubber) for processing of different types of ore particularly relates to machine which will achieve high percentage recovery of mineral values from low-grade ore at a relatively low cost.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013443 A

(19) INDIA

(22) Date of filing of Application :03/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : PALLADIUM (II)- CATALYZED Y C(SP) 3-H ALKYNYLATION OF AMINES

(51) International classification	:C07D0213810000, C07D0401040000, B01D0053940000, C07D0401140000, G01N0033569000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)EKAMBARAM BALARAMAN</b>
(33) Name of priority country	:NA	<b>2)VINOD GOKULKRISHNA LANDGE</b>
(86) International Application No	:NA	<b>3)AKASH MONDAL</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 :

The present invention relates to a Palladium (II)-catalyzed C(sp<sup>3</sup>)-H alkynylation of amines using picolinamide as directing group. The developed alkynylation strategy is simple, efficient, and tolerant of various ring size including five to eight member cyclic, quaternary amines, and N-heterocyclic motifs.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013502 A

(19) INDIA

(22) Date of filing of Application :03/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : GARMENT THAT OFFERS BRA-FREE COMFORT TO WOMEN

(51) International classification	:A41D0001220000, A41D0001215000, A41D0007000000, A41C0003140000, A41C0003080000	(71) <b>Name of Applicant :</b> <b>1)TRALALA FASHION PRIVATE LIMITED</b> Address of Applicant :H-24, SECOND FLOOR, KAILASH COLONY, NEW DELHI 110048, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)KATOCH, VANDANA</b>
(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 wearable top garment for offering bra-free comfort to women is provided. The top garment includes a front panel defining an outer surface and an inner surface. The garment also includes an inner layer attached to the inner surface of the front panel. The inner layer provides a coverage for breasts of a woman and has a length less than or equal to a length of the front panel. Further, the inner layer is configured to selectively include one or more pads to be positioned over the breast of the woman for providing a constriction free and support free coverage to the breasts.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013509 A

(19) INDIA

(22) Date of filing of Application :03/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : APPARATUS AND METHOD FOR MAGNETIC STIMULATION WITH VARIABLE PULSED INTERVALS

(51) International classification	:A61N0002000000, A61N0002020000, A61B0005000000, A61K0038160000, G16H0050700000	(71)Name of Applicant : <b>1)VENITAS RESEARCH CENTER, INC.</b> Address of Applicant :203, 1F., NO. 29, ALY. 8, LN 168 ZHONGHE RD., ZHONGSHAN DIST. KEELUNG CITY TAIWAN
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Conway Ho</b>
(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 apparatus and method of modulating a brain activity of a mammal is achieved by subjecting the mammal to repetitive transcranial magnetic stimulation (rTMS) at variable pulse intervals for a time sufficient to modulate said brain activity. Improvement in a physiological condition or a clinical condition is achieved. Conditions to be treated include but are not limited to PTSD, autism spectrum disorder and Alzheimers disease. Wavelet transform analysis is used to determine the variable pulse intervals employed.



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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013540 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PROCESS FOR PRODUCTION OF XYLOSE, LEVULINIC ACID AND LIGNIN FROM SPENT AROMATIC BIOMASS.

(51) International classification	:A01N0065440000, A01N0065000000, A61K0036899000, C07C0051000000, C07D0307500000	(71) <b>Name of Applicant :</b> <b>1)TR SHARMA</b> Address of Applicant :CIAB, Sector-81 (Knowledge City), PO Manauli, S.A.S. Nagar, Mohali-140306, Punjab, India. Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHUWAN BHUSHAN MISHRA</b>
(33) Name of priority country	:NA	<b>2)MANGAT SINGH</b>
(86) International Application No	:NA	<b>3)PRATIBHA DWIVEDI</b>
Filing Date	:NA	<b>4)NISHANT PANDEY</b>
(87) International Publication 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 involves a green, integrated and scalable process for chemical hydrolysis of spent aromatic biomass of palmarosa, lemongrass, and citronella by application of an organic acid, p-cymene-2-sulphonic acid dihydrate (p-CSA) to afford xylose, levulinic acid and lignin in good yields.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013578 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMATED LIFT FOR LOWER BODY DISABILITY PATIENTS

(51) International classification	:G06Q0050220000, G06Q0010060000, A61K0009000000, G16H0050200000, A61G0005100000	(71)Name of Applicant : <b>1)VIROCHAN ADHIWAL</b> Address of Applicant :HE-1177, PHASE-1, MOHALI, PUNJAB, 160055 Punjab India <b>2)PARAMPREET SINGH</b> <b>3)GAURAV GUPTA</b> <b>4)AKSHAT BHARDWAJ</b> <b>5)HIMANK BHUTANI</b> <b>6)Dr. C.S. JAWALKAR</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)VIROCHAN ADHIWAL</b> <b>2)PARAMPREET SINGH</b> <b>3)GAURAV GUPTA</b> <b>4)AKSHAT BHARDWAJ</b> <b>5)HIMANK BHUTANI</b> <b>6)Dr. C.S. JAWALKAR</b>
(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 :

Patient experience is highly influenced by the general aspect of the hospital and the friendliness of its staff. Patient safety measurement remains a global challenge. This project suggests the patients can provide insight about safety and comfort that existing patient faces. With the frequency of reported patient safety incident that happens in day to day life. The problems and challenges that the patient on a daily basis experiences are uneven surface for wheelchair movement, daily multiple movements are a bit challenge to maneuver, tidiness in patient transportation, sedentary lifestyle of the patient which leads to development of muscle cramp and possible deformations. Our project is concerned with one of the important aspect of patient comfort, safety and transportation which is Automated Lift for Lower Body Disability Patient. This project deals with transformation of stair steps into a plan surface so as to lift the patient to a certain amount of height in order to increase the patient self-reliability and safety while transportation.



No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013609 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention :A METHOD OF AUTO-ADJUSTING SIDE REAR VIEW MIRROR OF A VEHICLE •

(51) International classification	:B60R0001060000, B60R0001080000, B60R0001020000, B60R0001120000, B60N0002900000	(71)Name of Applicant : <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea Republic of Korea <b>2)KIA MOTORS CORPORATION</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MANDALA, Jagadeesh Reddy</b>
(33) Name of priority country	:NA	<b>2)AKELLA, Praveen</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 :

The present invention relates to a side rear view mirror of a vehicle. More particularly, the present invention relates to a method of auto adjusting side rear view mirror of a vehicle.

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : A MATERIAL HANDLING SYSTEM WITH AN OVERLOAD DETECTION AND POWER CUT-OFF ABILITY

(51) International classification :H02H0007085000,  
B25F0005000000,  
B02C0018240000,  
E06B0009680000,  
H02J0003140000

(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 Delhi India

(72)Name of Inventor :

**1)S Muthuselvam**

**2)Harshit Joshi**

(57) Abstract :

The present disclosure envisages a material handling system (1000) with an overload detection and power cut-off ability. The system (1000) comprises a conveyor mechanism (10), an electric motor (20), a drive unit (40) through which electrical power is supplied to the motor (20) and a control unit (50). The control unit (50) is configured to control electrical power supplied to the drive unit (40) and sense the instantaneous electrical output of the drive unit (40). If the instantaneous electrical output of the drive unit (40) exceeds a predetermined threshold value, the control unit (50) cuts off electrical power supply to the drive unit (40). The system (1000) reliably prevents damage to mechanical components by cutting off the power supply to the motor (20) when the electric current drawn by the electric motor (20) overshoots due to overload.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013708 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : TERMINAL CAPS AND TERMINAL ASSEMBLIES USING THE TERMINAL CAPS

(51) International classification	:H01M0002340000, A61F0002060000, D06F0037120000, F16F0009540000, F21V0009300000	(71) <b>Name of Applicant :</b> <b>1)MOTHEPERSON SUMI SYSTEMS LIMITED</b> Address of Applicant :A3, Sector-84 Distt. Gautam Budh nagar, Noida- Uttar Pradesh 201304, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)THAKUR, Vikas</b>
(33) Name of priority country	:NA	<b>2)SHRINGI, Anjali</b>
(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 :

An example terminal cap (200) of the present subject matter comprises a bottom cover member (202) and a top cover member (204) which can be positioned over the bottom cover member. The bottom cover member can comprise a first body portion (206) which can comprise a first inner surface positioned over a battery post. The top cover member can comprise a second body portion (216) comprising a second inner surface for being positioned on the bottom cover member. The bottom cover member can comprise a projector part (208) disposed at a top end of the first outer surface of the first body portion. An annular shoulder (404) can be provided at a top end of the second inner surface of the second body portion. The annular shoulder and the projector part can be mated.



No. of Pages : 20 No. of Claims : 12

(54) Title of the invention : A STEERING LOCK FOR A TRACTOR

(51) International classification	:B60R0025021000, B60R0025021500, B60R0025023000, B60R0025022000, B62D0001184000	(71)Name of Applicant : <b>1)Mahindra and Mahindra Limited</b> 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	<b>1)Shantanu Rishi</b>
(33) Name of priority country	:NA	<b>2)Jasjeet Singh Sohal</b>
(86) International Application No	:NA	<b>3)NARINDER DEWAN</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 :

The present disclosure envisages a steering lock (200) for a tractor. The steering lock (200) comprises a lock body (205), a latch (215) reciprocating inside the lock body (205), a rotatable cylinder (204) with a keyhole (212), a latch mechanism (202), a cam-follower mechanism (203), and a collar formed beside the lock body (205) for fixing the steering lock (200) on a steering column assembly (100) of the tractor. The cam-follower mechanism (203) displaces the latch (215) in relation to the rotation of the cylinder (204). The steering lock (200) of the present disclosure prevents the steering of the tractor when the tractor steering is in a locked configuration. The steering lock (200) is easy to install and prevents theft of tractors.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013735 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SPILL PROOF LID FOR A DRINKING CONTAINER

(51) International classification	:B65D0043020000, A47G0019220000, B65D0051180000, B65D0017280000, B65D0025280000	(71)Name of Applicant : <b>1)SAYAR SINGH CHOUDHARY</b> Address of Applicant :45, Champapura, Kalwar Road Jaipur, Rajasthan 303706 Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)SAYAR SINGH CHOUDHARY</b>
(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 :

Disclosed is a leak-resistant lid assembly for a cup. The lid assembly comprises a lid to be detachably coupled to the cup. The lid comprises a first collar that receives a lower-lip of a person on a top thereof when the person drinks a liquid from the cup. Furthermore, the lid comprises a second collar that is received between an upper-lip and the lower-lip of the person when the person drinks from the cup. Moreover, the lid comprises a block that pivots under the top-surface of the lid due to the upper-lip of the person pushing the block when the person drinks from the cup. Also, the lid comprises a first locking-member disposed below the top-surface of the lid. The lid assembly comprises a disc comprising a second locking-member. The block pushes the disc downward to allow flow of liquid from the cup when person drinks from the cup.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013768 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention :CROSS AIR CIRCULATION HANDLE BAR GRIP •

(51) International classification :H04L0029080000,  
C07D0417140000,  
C07D0417060000,  
C07D0263320000,  
G03G0015000000

(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)MINDA INDUSTRIES LIMITED**

Address of Applicant :Village Nawada Fatehpur, P.O.  
Sikanderpur Badda, Distt. Gurgaon, Haryana 122004, India  
Haryana India

(72)Name of Inventor :

**1)Rajive Rathore**

**2)Mohit Chaudhary**

(57) Abstract :

The present disclosure relates to a two-part handlebar grip used in vehicles comprising 5 a longitudinal grip member (1) having a proximal end (1a) and distal end (1b). The longitudinal grip member (1) comprising at least one air intake opening structure (1c) with opening (1h) on face towards the distal end (1b), having one or more air circulation channels (1d) extending across the longitudinal grip member (1). An end cap (2) having a radially extending surface (2a) placed on a side surface (1f) of the air intake opening 10 structure (1c). The distal end (1b) comprises a central groove (1e) adapted to receive the end cap (2) removably attached with the longitudinal grip member (1) to close the opening (1h) of the air intake opening structure (1c). The two part structure of handlebar grip facilitates easy access to machining tool to machine internal surfaces of the air intake opening structure.



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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013791 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : NANO-FORMULATION & METHOD OF PREPARATION THEREOF FOR SUPPRESSING PLANT PARASITIC NEMATODES AND PLANT GROWTH PROMOTION

(51) International classification	:C12R0001430000, A01N0063000000, A01N0043840000, C12R0001050000, A01N0043820000	(71)Name of Applicant : <b>1)BANARAS HINDU UNIVERSITY, VARANASI</b> Address of Applicant :Registrar, Banaras Hindu University, Varanasi, U.P., India 221005 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SINGH, Harikesh Bahadur</b>
(33) Name of priority country	:NA	<b>2)MISHRA, Sandhya</b>
(86) International Application No	:NA	<b>3)RAY, Shatrupa</b>
Filing Date	:NA	<b>4)SINGH, Rakesh Kumar</b>
(87) International Publication No	: NA	<b>5)PANDEY, Sumit Kumar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)VAISHNAV, Anukool</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is related to a metal nanoformulation which comprises plurality of gram-negative bacteria and it is used for suppressing plant parasitic nematodes population and promotes the plant growth. It presents a method for production of silver from bacterial strains having nematicidal activity against plant parasitic nematodes like Meloidogyne incognita and M. graminicola. The metal nanobioformulation produced from rhizospheric Serratia marcescens BHU S4, Stenotrophomonas sp. BHU S7 and endophytic Alcaligenes faecalis BHU 12 and applied to a host plant (rice) hosting plant parasitic nematodes population by a selecting a method, but not limited to a seed dip method, a seedling dip or a soil drench method.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013813 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A FIXTURE TO HOLD PLATES OF VARYING SIZES AT DIFFERENT ANGLES BETWEEN THEM, FOR WELDING, USING TWO BREADBOARDS AND A HYDRAULIC CYLINDER

(51) International classification :B25B0005140000,  
B23K0037040000,  
A61F0002500000,  
B23K0037053000,  
B23P0015000000

(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)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH**

Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001, INDIA Delhi India

(72)Name of Inventor :

**1)SHITANSHU SHEKHAR CHAKRABORTY**

**2)PALASH KUMAR MAJI**

**3)RAKESH KUMAR PADHI**

(57) Abstract :

Clamping of plates of varying size and shape, during manufacturing processes like welding, often requires dedicated fixtures. Their fabrication consumes huge time, material and energy. Here, a fixture has been developed using two breadboards and a hydraulic cylinder for clamping two plates of varying sizes for welding. Evenly spaced threaded holes all over the breadboards facilitate clamping as well as locating plates of varying sizes. A manually operated hydraulic cylinder rotates one of the breadboard relative to the other (in both forward and reverse directions). This creates the desired angle between the plates held onto the breadboards. The breadboards are made up of magnetic stainless steel so as to be prevent corrosion and to have the ability to attach further fixtures having magnetic attachments. A digital inclinometer is attached (with the help of magnets at its base) to the rotating breadboard to see its angle relative to the stationary one.



No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013861 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : MERRY-GO-DRIP

(51) International classification :A01G0009240000,  
A01C0015000000,  
A01G0025160000,  
A01D0087000000,  
B29B0017000000

(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)University of Engineering and Management**

Address of Applicant :University of Engineering and Management,University of Engineering & Management, Jaipur. 6 Km. from Chomu on Sikar Road (NH-11), Udaipuria Mod, Jaipur-303807, Rajasthan. Rajasthan India

(72)Name of Inventor :

**1)Sougata Banerjee**

(57) Abstract :

This unique super-structural model consists of old recyclable wastes manufactured into a very useful agricultural product. This device consists of used parts like circular metal rings, wrecked PVC pipes, etc. All parts are fitted in such a way that it makes the structure free to rotate about an axis. It creates vacancies for plants and pot agriculture. This method of smart irrigation cum smart agriculture saves water, time and maintenance. A small working mechanism is made for the movement of the structure around the axis. Renewable source of energy is used to power to power the device. The given agricultural device can produce specific plants; serve as anywhere agricultural system, as it can be used anywhere, using only a little space, maximizing the profits or the recreation. Also maintains the oxygen level and precipitation of the place.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013864 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : AN ISLANDED SINGLE-STAGE SOLAR PHOTOVOLTAIC- BATTERY SYSTEM WITH GRID SYNCHRONIZATION CAPABILITY

(51) International classification	:H02J0003380000, G05F0001670000, H02J0003320000, H02J0009060000, H02J0007350000	(71) <b>Name of Applicant :</b> <b>1)INDIAN INSTITUTE OF TECHNOLOGY DELHI</b> Address of Applicant :Hauz Khas, New Delhi 110 016, (India) Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SINGH, Bhim</b>
(33) Name of priority country	:NA	<b>2)BENIWAL, Neha</b>
(86) International Application No	:NA	<b>3)HUSSAIN, Ikhlq</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 :

The present invention discloses an islanded single-stage solar photovoltaic- battery system with grid synchronization capability. Battery is directly connected to DC link of converter, to provide reliable operation to the system during high PV generation or peak load demand by its charging and discharging capabilities. The solar photovoltaic array (10) is directly connected to the DC link of the VSC and the battery is connected to the DC link via a bidirectional converter. A maximum power point tracking (MPPT) controller (11) is configured to extract the maximum power from the solar PV array (10) and a controller (8) is connected to the single voltage source converter (9) that is configured for comparing the values of the voltage, frequency and phase angle of a utility grid (2) with a load (6) and synchronizing or desynchronizing the utility grid (2) with the load (6) and the output of the single VSC (9).



No. of Pages : 25 No. of Claims : 5

(54) Title of the invention :BATTERY STORAGE HOUSING WITH SAFETY STRUCTURESE •

(51) International classification	:H01M0002100000, H01M0002120000, H01M0010420000, A62C0003160000, H01M0002340000	(71)Name of Applicant : <b>1)AKANSHA JAIN</b> Address of Applicant :J-1 , Ground Floor , Lajpat Nagar -3 ,Delhi -110024 INDIA Delhi India <b>2)RAKESH JAIN</b> <b>3)ANAND PRAKASH SINGHAL</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)AKANSHA JAIN</b> <b>2)RAKESH JAIN</b> <b>3)ANAND PRAKASH SINGHAL</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a battery storage housing that stores battery/battery banks separately. The battery storage housing comprises temperature sensors connected to a fire panel. In an event of a fire and/or explosion, the sensors detect a rise in temperature and automatically disconnect an air-conditioning system to the effected battery storage housing, activate a fire alarm, and a self-contained fire-extinguishing system within the battery storage housing. The smoke thus produced in the battery storage housing is channelized and vented out through specially designed louvers, and vents while maintaining the temperature and pressure inside the battery storage housing. Also, the toxic acid released from the batteries is directed to a sand pit.



No. of Pages : 22 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013934 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention :SYSTEM AND METHOD FOR ADAPTIVE LEARNINGE •

(51) International classification	:G09B0007000000, G09B0007020000, G09B0005000000, G06Q0050000000, G09B0007040000	(71)Name of Applicant : <b>1)VIVEK VERMA</b> Address of Applicant :Flat Number 62-A, Block B, Rajat Vihar , Sector 62, Noida 201301 UP INDIA Uttar Pradesh India <b>2)ANIL KUMAR SINGH YADAV</b> <b>3)SANDY KASHYAP</b> <b>4)BALWAN</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)VIVEK VERMA</b> <b>2)ANIL KUMAR SINGH YADAV</b> <b>3)SANDY KASHYAP</b> <b>4)BALWAN</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adaptive learning system is disclosed for assisting learners or professionals by providing access to educational content to learn or teach in an adaptive environment. The system provides a platform for real-time interaction and problem solving for learners or education professionals.



No. of Pages : 28 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013965 A

(19) INDIA

(22) Date of filing of Application :06/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention :METHOD AND SYSTEM FOR ACCELERATING CONVERGENCE OF RECURRENT NEURAL NETWORK FOR MACHINE FAILURE PREDICTION€ •

(51) International classification	:G06N0003040000, G06N0003080000, G05B0013020000, G06F0011220000, A61N0005100000	(71) <b>Name of Applicant :</b> <b>1)AVANSEUS HOLDINGS PTE. LTD.</b> Address of Applicant :51 Changi Business Park Central 2, The Signature, Level 04-05, Singapore 486066, Singapore, Singapore
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)BHANDARY, Chiranjib</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the invention provide a method and system for accelerating 5 convergence of Recurrent Neural Network (RNN) for machine failure prediction. The method comprises: setting initial parameters in RNN wherein the initial parameters include an initial learning rate which is determined based on a standard deviation of a plurality of basic memory depth values identified from a machine failure sequence; training RNN based on the initial parameters and at 10 the end of each predetermined time period, calculating current pattern error based on a vector distance between the machine failure sequence and current predicted sequence; and if the current pattern error is less than or not greater than a predetermined error threshold value, determining, by the processor, an updated learning rate based on the current pattern error, and updating weight 15 values between input and hidden units in RNN based on the updated learning rate.



No. of Pages : 46 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013966 A

(19) INDIA

(22) Date of filing of Application :06/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SYSTEM AND METHOD FOR A GAMING CONTROLLER WITH A LEFT-HAND CONSOLE AND A RIGHT-HAND CONSOLE

(51) International classification	:G07F0017320000, A63F0013235000, A63F0013245000, A63F0013980000, A63F0013200000	(71) <b>Name of Applicant :</b> <b>1)Himanshu</b> Address of Applicant :H. No. 13, Shanti Marg, Vidya Nagar, Bhiwani - 127021, Haryana Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Himanshu</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a gaming control system 110 comprising a left-hand console 120 and a right-hand console 130 in a single embodiment. The gaming control system 110 comprises a left-hand console 120 and a right-hand console 130. The right-hand console includes an optical sensor 360 to receive one or more mouse inputs from the video game player. The disclosed system aims at reducing the obstacles that gaming console players face while playing video games with a mouse for competitive advantage.



No. of Pages : 25 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911013972 A

(19) INDIA

(22) Date of filing of Application :07/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A BIO-PIEZOELECTRIC DEVICE AND A METHOD OF PREPARATION THEREOF

(51) International classification	:H01L0051000000, H01L0033520000, H01L0023498000, H04N0005225000, H01L0023532000	(71) <b>Name of Applicant :</b> <b>1)INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY), VARANASI</b> Address of Applicant :Varanasi-221005, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ANUPAMA GAUR</b>
(33) Name of priority country	:NA	<b>2)CHANDAN KUMAR</b>
(86) International Application No	:NA	<b>3)SHIVAM TIWARI</b>
Filing Date	:NA	<b>4)PRALAY MAITI</b>
(87) International Publication 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 bio-piezoelectric device and a method of preparation thereof. More particularly, the present invention provides a bio-piezoelectric device to convert a mechanical stress to electrical energy comprising of: a coated bio-piezoelectric film; a conducting element; and an encapsulating polymer. The device provides better thermal stability and is further used to harvest mechanical energy into electrical energy which is produced from different human motions and is used to power small electronic devices.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911014012 A

(19) INDIA

(22) Date of filing of Application :08/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : STREET LIGHT AUTOMATION SYSTEM WITH STEP DIMMING CONTROL AND THE METHOD OF OPERATION THEREOF

(51) International classification :H05B0037020000,  
H05B0033080000,  
F21S0002000000,  
F21S0008080000,  
F21S0009030000

(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)JKC Holdings Private Limited.**

Address of Applicant :Mezzanine Floor, M-4, South Extn.  
Part-II, New Delhi-110049 (INDIA) Delhi India

(72)Name of Inventor :

**1)Narender Dev Sapolia**

(57) Abstract :

The present invention generally relates to a street light automation system comprising automatic on-off and step dimming control provisions for specially designed LED based street lights. Said street light automation system particularly include plurality of street lights, installed in a particular stretch of street or highway, wherein each of the street light comprises plurality of LEDs, divided in at least two groups, characterized in provisions of selective switching-ON or switching-OFF or dimming of at least one group of said LEDs, controlled in time relation through wirelessly connected PLC based control mechanism of the said street light automation system of the present invention. Said automation system of the invention is also provisioned sensing the natural light and accordingly automatically switching-ON and switching-OFF of all the street lights, wirelessly connected to the controller means of the said automation system.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911014030 A

(19) INDIA

(22) Date of filing of Application :08/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : RAIL VEHICLE BRAKE SYSTEM HAVING ELECTROMAGNET AND SOLENOID

(51) International classification	:B60T0013660000, B65G0043060000, H02K0007140000, G01M0017100000, F16D0049000000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125 NOIDA UTTAR PRADESH-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MANZOOR HAIDER</b>
(33) Name of priority country	:NA	<b>2)RITESH SRIVASTAVA</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 :

The present invention discloses rail vehicle brake system having electromagnet and solenoid. The system consists of a set of two electromagnets, rubber belt, coaster brake setups equipped on the axle of the wheels of the rubber belt, solenoid, dynamo, two motion sensors fixed in the solenoid, ferromagnetic material pieces fixed on a simple belt and at least two wheels with slots wherein when electromagnets coaster excite with same polarity push a rubber belt on the rail track and rotate it which in turn rotates the connected dynamo start by a chain providing electrical power to the solenoid. The system decreases the stopping distance and increases the retardation of the rail vehicle by increasing overall braking force.



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

(54) Title of the invention : PORTABLE EXTENDABLE MODULE ASSEMBLY STRUCTURE FOR SHELTER AT HIGH ALTITUDE

(51) International classification	:A47D0013060000, A47G0001040000, B65D0021020000, G06F0011300000, G06F0021600000	(71) <b>Name of Applicant :</b> <b>1)INDIAN INSTITUTE OF TECHNOLOGY ROPAR</b> Address of Applicant :Nangal Road, Rupnagar, Punjab, India, 140001 Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Shivanshu Dixit</b>
(33) Name of priority country	:NA	<b>2)Amandeep</b>
(86) International Application No	:NA	<b>3)Srikant Sekhar Padhee</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 :

The present invention relates to a portable structure for remote location like at high altitudes. The structure (1) originates from a single module (100) and multiple modules can be added to form whole structure for inhabitants. The structure includes, base plate (2), specially designed frame rods (4), thin light weight sandwich (composite-foam-composite) wall panels (3), L-shaped hooks (5) and in-between T-hooks (6). The assembly of module is made via fixing the base plate (2), followed by installing the frame rods (4) and composite wall panels (3). The frame rods (4) are designed in a way to provide a gap (431) between the wall panels (3). Air gets trapped between in the gap (431) between the wall panels (3) and act as natural insulator, restricting the heat transfer across the wall panels (3). Thus, the proposed assembly structure is light in weight, easily transportable and provide quick assembly of shelter.



No. of Pages : 39 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911014086 A

(19) INDIA

(22) Date of filing of Application :08/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR IDENTITY AUTHENTICATION FOR PAYMENT BASED PAYMENT TRANSACTIONS

(51) International classification	:G06Q0020400000, G06F0021320000, G06Q0020100000, G06Q0020340000, G06K0009000000	(71)Name of Applicant : <b>1)MASTERCARD INTERNATIONAL INCORPORATED</b> 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	<b>1)GAURAV, Kumar</b>
(33) Name of priority country	:NA	<b>2)SAUGANDH, Datta</b>
(86) International Application No	:NA	<b>3)NIBEDAN, Kumar Bhawsinka</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 :

The invention provides methods, systems and computer program products for identity authentication for payment card based payment transactions. A payment card may be configured for payor identity authentication for the purpose of an electronic payment transaction(s), and may comprise (i) sensors to measure card handling parameters, (ii) an authentication signature generator, configured to generate and store a biometric identity signature associated with an authorized cardholder - which signature is based on a first set of card handling parameter data received from the sensors, (hi) a card handling data comparator configured to receive a second set of card handling parameter data from the sensors, retrieve the biometric identity signature associated with the authorized cardholder, and compare the second set of card handling parameter data with data extracted from the retrieved biometric identity signature, and (iv) an authentication decision generator configured to generate an identity authentication decision based on the comparison.



No. of Pages : 36 No. of Claims : 19

(54) Title of the invention : IMAGE COMPRESSION FOR TRANSMISSION

(51) International classification	:H04N0019176000, H04N0019136000, G06T0009000000, H04N0019154000, H04N0019192000	(71)Name of Applicant : <b>1)INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR</b> Address of Applicant :NH-65, Nagaur Road, Karwad, Jodhpur- Rajasthan 342037, India Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)TIWARI, Anil Kumar</b>
(33) Name of priority country	:NA	<b>2)KUMAR, Rahul</b>
(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 :

In an example of method of compressing image, image is partitioned into non-overlapping image blocks. Each non-overlapping block includes pixels. For each non-overlapping block, DCT coefficients is obtained by DCT of the block; first N DCT coefficients are selected by a zig-zag technique; an image block is reconstructed by performing reverse DCT to selected N DCT coefficients; difference values are determined between pixel intensities of partitioned image block and pixel intensities of reconstructed image block; the difference values are squared and arranged in descending order; error energy value is computed by selecting and adding first P squared values. Further, image block is grouped into a first subset or a second subset of image blocks depending on whether the error energy value is higher or lower than a predetermined mean-energy value. Further, first subset is quantized using scaling factor  $(S) = 0$ , and second subset is quantized using  $S > 1$ .



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911014139 A

(19) INDIA

(22) Date of filing of Application :08/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PROCESS FOR MANUFACTURING OF SELF-LUBRICATING ROLLING ELEMENT CAGE

(51) International classification	:F16C0033100000, F16C0033660000, F16C0033300000, F16C0033440000, B29C0033380000	(71)Name of Applicant : <b>1)NATIONAL ENGINEERING INDUSTRIES LTD.</b> Address of Applicant :Khatipura Road, Jaipur-302 006 Rajasthan, INDIA, Jaipur-302006, Rajasthan, India Rajasthan India
(31) Priority Document No	:NA	<b>2)GUGLANI, Lalit</b>
(32) Priority Date	:NA	<b>3)SAHOO, Ashutosh Kumar</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)JAIN, Ayush</b>
Filing Date	:NA	<b>2)NILAVAN, Muthu Nallaiyan</b>
(87) International Publication No	: NA	<b>3)GANESAN, Rajaram</b>
(61) Patent of Addition to Application Number	:NA	<b>4)MUKKATIRA, Jaikumar Muddappa</b>
Filing Date	:NA	<b>5)GUGLANI, Lalit</b>
(62) Divisional to Application Number	:NA	<b>6)SAHOO, Ashutosh Kumar</b>
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a process for manufacturing of self-lubricated rolling element cage and polymer based oil impregnated roller bearings and a composition for manufacturing thereof. Lubrication oil; polymer powder; and coloring agent are mixed to obtain a mixture, followed by de-moisturizing to obtain a de-moisturized mixture. The de-moisturized mixture is filled in a bearing cavity defined between an inner ring and outer ring with rolling elements disposed therein, which is further mold pressed at a predetermined pressure in the range of 100-150 kgf/cm to obtain a mold. The mold is cured at a predetermined temperature in the range of 160-220°C for a predetermined time in the range of 2-8 minutes. The cured mold is then cooled at a predetermined rate in the range of 5°C/ min to 40°C/min to obtain the self-lubricated cage for rolling elements.



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

(54) Title of the invention : A TRAILER FOR REFRIGERATED STORAGE AND MOBILITY OF PERISHABLES

(51) International classification :F25D0011000000,  
H05B0033080000,  
H03K0017081200,  
B60P0003200000,  
B60H0001000000

(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)Jatinder Kumar****2)Malvinder Singh Tiwana****3)Anuj Kumar**

(57) Abstract :

The present disclosure relates to the field of refrigerated storage and mobility systems, and envisages a trailer (1000) for refrigerated storage and mobility of perishables. The trailer is configured to be hauled by an agricultural vehicle. The trailer (1000) comprises a chamber (100) configured to facilitate loading of the perishables and a refrigeration cycle driving device (110) configured to drive a refrigeration cycle for withdrawing heat from said chamber (100). The said refrigeration cycle driving device (110) is configured to be driven by power supplied from the agricultural vehicle as well as by an external electrical power supply. Thus, the refrigeration cycle driving device (110) is configured to be driven in a haulage mode as well as in a stationary mode. The trailer (1000) allows refrigeration of perishables over a wide range of temperatures.



No. of Pages : 27 No. of Claims : 21



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914024505 A

(19) INDIA

(22) Date of filing of Application :20/06/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention :SHIFT LEVER APPARATUS FOR VEHICLE •

(51) International classification	:F16H0059020000, B60W0010020000, F16H0061240000, F16H0059040000, F16H0061360000	(71)Name of Applicant : <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea <b>2)KIA MOTORS CORPORATION</b>
(31) Priority Document No	:10-2019-0038064	(72)Name of Inventor :
(32) Priority Date	:01/04/2019	<b>1)KIM, Eun Sik</b>
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication 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 shift lever apparatus for a vehicle, in which when a driver does not operate a shift lever (20), the shift lever (20) is restrained from rotating in a shift direction and a select direction, and when a driver presses down a knob (23), the shift lever (20) is released, a switch (60) is operated, a clutch (90) is disengaged first, and the shift lever (20) is rotated in the shift direction and the select direction after the clutch (90) is disengaged, whereby electronic shifting control can be performed.

No. of Pages : 37 No. of Claims : 10

(54) Title of the invention :REMOTE STARTING CONTROL METHOD OF MANUAL TRANSMISSION VEHICLE WITH ELECTRONIC CLUTCH •

(51) International classification	:F02N0011080000, B60R0025200000, F02N0011100000, B60R0025100000, B60W0030180000	(71)Name of Applicant : <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea Republic of Korea <b>2)KIA MOTORS CORPORATION</b>
(31) Priority Document No	:10-2019-0039426	(72)Name of Inventor :
(32) Priority Date	:04/04/2019	<b>1)KIM, Eun Sik</b>
(33) Name of priority country	:Republic of Korea	<b>2)SONG, Chang Hyeon</b>
(86) International Application No	:NA	<b>3)HONG, Jong Ho</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 :

The present invention relates to a remote starting control method of a manual transmission vehicle with an electronic clutch. According to the method, it is possible to determine whether to perform remote starting additionally using a shift lever-side N-stage signal, a parking signal, an inclination signal of a parked vehicle, and a movement signal of a shift lever positioned at the N-stage other than a transmission-side N-stage signal in remote starting. Accordingly, it is possible to considerably improve safety in remote starting.



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

(54) Title of the invention : APPARATUS FOR ASSISTING TOILET USER IN STANDING UP

(51) International classification	:A61G0005140000, A61G0007100000, E02F0003360000, A47K0013240000, B60N0002020000	(71) <b>Name of Applicant :</b> <b>1)SONG, Soon Young</b> Address of Applicant :(Pyeonchon-dong, e-pyeonhansesang Apt) 106 dong 1401 ho, 17, Heungan Dae-ro 456 beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Korea Republic of Korea
(31) Priority Document No	:10-2019-0037622	(72) <b>Name of Inventor :</b>
(32) Priority Date	:01/04/2019	<b>1)SONG, Soon Young</b>
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication 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 disclosure relates to an apparatus for aiding a toilet user in standing up, and more particularly to an apparatus having a simple structure for aiding a toilet user in standing up, in which a movable seat where the toilet user sits is automatically movable to have lifting movement and pivoting movement, and minute pivoting movement is possible, thereby simplifying the structure and assisting the toilet user in safely standing up. The apparatus for aiding a user of a toilet in standing up, which has a structure where the user can sit, and includes a movable seat movably mounted to the toilet; and a seat actuator disposed adjacent to the toilet and actuating the movable seat to operate having at least one of lifting movement and pivoting movement, the seat actuator including: a base frame adjacent to and stationarily mounted to the toilet; a driver mounted to the base frame; and a link assembly connected to an actuation bar coupled to the movable seat and making the actuation bar operate as driven by the driver to generate the lifting movement and the pivoting movement of the movable seat.



No. of Pages : 25 No. of Claims : 2

(54) Title of the invention : SPRING FORMING MACHINE HAVING TOOL ROTATION AND TOOL RETRACTION CAPABILITIES

(51) International classification	:B21F0003020000, H05K0005020000, B25J0009100000, H02K0007060000, G06F0001160000	(71)Name of Applicant : <b>1)HUIZHOU ODMAY MACHINERY CO., LTD.</b> Address of Applicant :BUILDING 2, ZONE 2, HUSHAN SCIENCE AND TECHNOLOGY PARK, SHIWAN TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG PROVINCE, CHINA China
(31) Priority Document No	:108204064	(72)Name of Inventor :
(32) Priority Date	:02/04/2019	<b>1)SONG-WEI YE</b>
(33) Name of priority country/region	:Taiwan	<b>2)XIAO-HONG ZHOU</b>
(86) International Application No	:NA	<b>3)JIAN-MING LONG</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 :

A spring forming machine having tool rotation and tool retraction capabilities, that includes: a rotary beak seat mechanism and a dual-transmission core rotation separation mechanism. The rotary beak seat mechanism is installed on a transmission mechanism of an outside machine panel board through a panel board bearing. The rotary beak seat mechanism includes a rotation component, that rotates 360 degrees around a central axis of the panel board bearing. On a front end of the rotation component is disposed a slide seat component coaxially. The dual-transmission core rotation separation mechanism includes: a first substrate, in a center of a front plate surface of the first substrate is disposed the rotary beak seat mechanism, on a back plate surface of the first substrate is disposed an axle core positioning mechanism, an inner circle core rotation transmission mechanism, and an outer circle tool rotation transmission mechanism.



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

(54) Title of the invention : CEILING FAN AND ASSEMBLING METHOD THEREOF

(51) International classification	:F04D 25/08, F04D 29/32, F04D 29/38, F04D 29/64
(31) Priority Document No	:10-2018-0067488
(32) Priority Date	:12/06/2018
(33) Name of priority country	:Republic of Macedonia
(86) International Application No	:PCT/KR2019/003882
Filing Date	:02/04/2019
(87) International Publication No	:0
(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 ELECTRONICS INC.**  
Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea Republic of Korea

(72)**Name of Inventor :**  
**1)KIM Taejun**  
**2)DHIMAN Atul**  
**3)SINGH Shivendra**  
**4)PARK Jeeman**  
**5)MUN Yeongcheol**  
**6)PARK Wonsuk**  
**7)OH Siyoung**  
**8)CHOI Seokho**

(57) Abstract :

According to an embodiment of the present disclosure, a ceiling fan may include a shaft coupled to a ceiling, a cover to surround the shaft, a main blade having a blade hole which is a space open inward, and a sub-blade positioned in the blade hole. The ceiling fan may resolve the red zone of the air flow and may improve air volume and the flow rate due to the dual blades.



No. of Pages : 159 No. of Claims : 20

(54) Title of the invention : CEILING FAN AND METHOD FOR CONTROLLING THE SAME

(51) International classification	:F04D 25/08, F04D 27/00, F24F 11/56, F24F 11/70, F04D 29/64
(31) Priority Document No	:10-2018-0067478
(32) Priority Date	:12/06/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2019/003881
Filing Date	:02/04/2019
(87) International Publication No	:0
(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 ELECTRONICS INC.**  
Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea Republic of Korea

(72)**Name of Inventor :**  
**1)BAE Jihoon**  
**2)DHIMAN Atul**  
**3)SINGH Shivendra**  
**4)ANAND Anand**  
**5)KIM Seulki**  
**6)MUN Yeongcheol**  
**7)PARK Jeeman**

(57) Abstract :

According to an embodiment of the present disclosure, a ceiling fan includes a shaft coupled to a ceiling or a wall surface, a housing cover provided at a central axis thereof with a shaft and receiving a motor assembly and an electronic unit, and a blade coupled to the housing cover. The electronic unit is provided in a multi-stage.



No. of Pages : 145 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917028209 A

(19) INDIA

(22) Date of filing of Application :13/07/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : CROSS-CARRIER SPATIAL RELATION INDICATION FOR SEMI-PERSISTENT SOUNDING REFERENCE SIGNAL (SP-SRS) RESOURCES

(51) International classification	:H04B 7/06, H04B 7/08, H04L 5/00, H04W 16/28, H04W 72/04	(71)Name of Applicant : <b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b> Address of Applicant :Stockholm Sweden SE-164 83 Sweden
(31) Priority Document No	:62/660,738	(72)Name of Inventor : <b>1)GRANT, Stephen</b>
(32) Priority Date	:20/04/2018	<b>2)FAX%R, Sebastian</b>
(33) Name of priority country	:U.S.A.	<b>3)TIDESTAV, Claes</b>
(86) International Application No	:PCT/SE2019/050295	
Filing Date	:01/04/2019	
(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 :

Exemplary embodiments include methods for activating or deactivating reference signal (RS) resources usable for management of transmit and / or receive beams for communication with a user equipment (UE) in a wireless communication network. Embodiments include sending, to the UE, one or more control messages comprising configuration of a plurality of RS resources associated with a particular bandwidth part (BWP) of a particular component carrier (CC) in the network. Embodiments also include sending, to the UE, a further control message comprising identification of at least one RS resource, of the plurality, to be activated or deactivated. The further control message can also include, for each identified RS resource, an indication of the identified RS resource 's spatial relation with a further resource that is not associated with the particular BWP of the particular CC. Embodiments also include complementary methods performed by a UE, and apparatus configured to perform the exemplary methods.

No. of Pages : 64 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917041110 A

(19) INDIA

(22) Date of filing of Application :11/10/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : BRACKET, INPUT/OUTPUT ASSEMBLY AND TERMINAL

(51) International classification :H04M 1/02  
(31) Priority Document No :201810317084X  
(32) Priority Date :10/04/2018  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2019/081325  
Filing Date :03/04/2019  
(87) International Publication No :WO/2019/196726  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)GUANGDONG OPPO MOBILE  
TELECOMMUNICATIONS CORP., LTD.**  
Address of Applicant :No. 18, Haibin Road Wusha,  
Chang<sup>€</sup>an Dongguan Guangdong China 523860 China  
(72)Name of Inventor :  
**1)JIA, Yuhu  
2)ZHAO, Bin  
3)XU, Haiping**

(57) Abstract :

A terminal (100), an input/output (30) assembly and a support (32). The support (32) comprises a main body (321), and the main body (321) comprises a first surface (3211) and a second surface (3212) that are opposite each other, wherein the second surface (3212) is opened with at least one accommodating cavity (322), and the first surface (3211) is opened with at least one through hole (322) that corresponds with the at least one accommodating cavity (322); the at least one accommodating cavity (322) is used for fixing and installing an input/output module (31) such that the input/output module (31) is exposed from the second surface (3212), and the at least one through hole (323) is used to expose the input/output module (31) from the first surface (3211).

No. of Pages : 97 No. of Claims : 12



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917049150 A

(19) INDIA

(22) Date of filing of Application :29/11/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SECURITY CONTROL METHOD AND APPARATUS FOR APPLICATION PROGRAM, AND MOBILE TERMINAL AND COMPUTER-READABLE STORAGE MEDIUM

(51) International classification	:G06F 21/12	(71)Name of Applicant :
(31) Priority Document No	:201810326273.3	<b>1)GUANGDONG OPPO MOBILE</b>
(32) Priority Date	:12/04/2018	<b>TELECOMMUNICATIONS CORP., LTD.</b>
(33) Name of priority country	:China	Address of Applicant :No. 18, Haibin Road, Wusha, Chang'an
(86) International Application No	:PCT/CN2019/081739	Dongguan, Guangdong 523860 China
Filing Date	:08/04/2019	(72)Name of Inventor :
(87) International Publication No	:WO/2019/196792	<b>1)GUO, Ziqing</b>
(61) Patent of Addition to Application	:NA	<b>2)ZHOU, Haitao</b>
Number	:NA	<b>3)HUI, Fangfang</b>
Filing Date	:NA	<b>4)TAN, Xiao</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A security control method for an application program. The method comprises: determining whether running information of an application program satisfies a pre-set security control condition (01); if so, invoking a pre-set service, wherein the pre-set service is used for enabling the application program to be run in a trusted execution environment (02); and executing, in the trusted execution environment, an identity verification service corresponding to the running information of the application program (03).



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

(54) Title of the invention : IMAGE PROCESSING METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND COMPUTER-READABLE STORAGE MEDIUM

(51) International classification :G06K 9/00  
 (31) Priority Document No :201810327407.3  
 (32) Priority Date :12/04/2018  
 (33) Name of priority country :China  
 (86) International Application No :PCT/CN2019/081743  
 Filing Date :08/04/2019  
 (87) International Publication No :WO/2019/196793  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
**1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.**  
 Address of Applicant :No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong 523860 China  
 (72)Name of Inventor :  
**1)GUO, Ziqing**  
**2)ZHOU, Haitao**  
**3)HUI, Fangfang**  
**4)TAN, Xiao**

(57) Abstract :

An image processing method, an image processing apparatus (20), an electronic device (10), and a computer-readable storage medium. The image processing method comprises: (001) receiving object information associated with a human face; and (002) determining a running environment corresponding to the object information according to a security level of the object information, and executing processing related to the human face in the running environment.

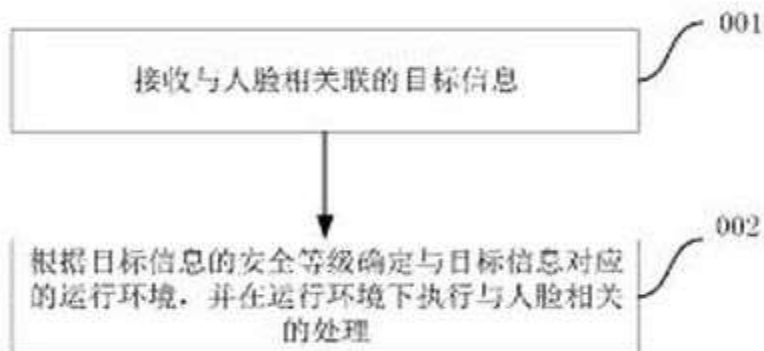


图 1

No. of Pages : 36 No. of Claims : 10

(54) Title of the invention : CASE STRUCTURE FOR VEHICULAR ELECTRIC DEVICE

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

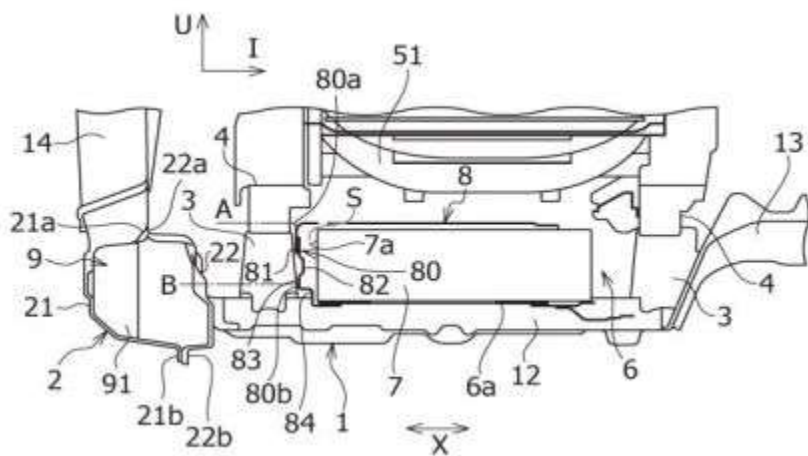
(31) Priority Document No :2019-072216  
(32) Priority Date :04/04/2019  
(33) Name of priority country :Japan  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SUZUKI MOTOR CORPORATION**  
Address of Applicant :300 Takatsuka-cho, Minami-ku,  
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :  
**1)Yoshie TOJO**  
**2)Akihiro OBARA**  
**3)Masahiko MORI**  
**4)Fumihiko YAMAMOTO**

(57) Abstract :

A case structure for a vehicular electric device includes: a side sill (2) that is provided on a side part in a vehicle width direction of a floor panel (1) and extends in a vehicle front-rear direction; a front seat (5) that is provided at a vehicle inner side of the side sill (2) via a seat rail bracket (3) and a seat rail (4) installed over the floor panel (1); and an electric device (6) that is disposed below a seat portion (51) of the front seat (5), the electric device (6) including a device body (7) and a case member (8) made of metal to accommodate the device body (7). In the case structure for a vehicular electric device, the case member (8) includes an overhanging portion (80) that overhangs outwards in the vehicle width direction with respect to the device body (7) and forms a space in the vehicle width direction between the device body (7) and itself, the seat rail (4) is located so as to overlap with only an upper part (80a) of the overhanging portion (80) as viewed from a vehicle lateral side, and the side sill (2) is located so as to overlap with at least a lower part (80b) of the overhanging portion (80) as viewed from the vehicle lateral side.



No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014004860 A

(19) INDIA

(22) Date of filing of Application :04/02/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : MULTI-LOCATION DELIVERY

(51) International classification	:G06Q0030060000, G06Q0010080000, G06Q0030020000, H04L0027260000, A61L0031100000	(71) <b>Name of Applicant :</b> <b>1)Shopify Inc.</b> Address of Applicant :150 Elgin Street, 8th Floor, Ottawa, ON K2P 1L4, Canada Canada
(31) Priority Document No	:16/371,772	(72) <b>Name of Inventor :</b>
(32) Priority Date	:01/04/2019	<b>1)DANIEL D. LEROUX</b>
(33) Name of priority country	:U.S.A.	<b>2)GEORGE TZAVELAS</b>
(86) International Application No	:NA	<b>3)MAARTEN VAN GROOTEL</b>
Filing Date	:NA	<b>4)BENOIT DES LIGNERIS</b>
(87) International Publication 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 and systems for determining product fulfillment options for products in an e-commerce system or shopping cart. Delivery profiles from a delivery profile database are used, wherein the delivery profile is specific to the products and contains inventory locations and delivery zones. Priority basis determination of recommended options is utilized.

No. of Pages : 79 No. of Claims : 15

(54) Title of the invention : HYDRAULIC STEERING ARRANGEMENT

(51) International classification :B62D0005093000,  
B62D0005080000,  
G05D0016200000,  
F16K0027040000,  
B62D0005065000

(31) Priority Document No :102019109144.6

(32) Priority Date :08/04/2019

(33) Name of priority country :Germany

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

(87) International Publication No : NA

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

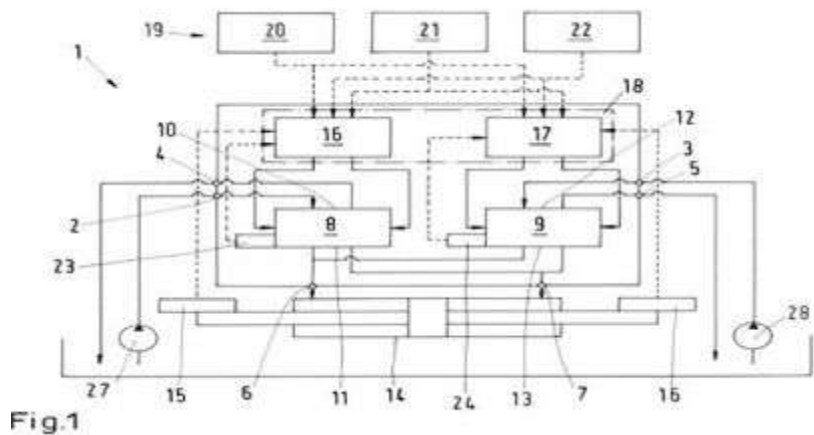
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)DANFOSS POWER SOLUTIONS APS**  
Address of Applicant :Nordborgvej 81, Nordborg 6430,  
Denmark Denmark

(72)Name of Inventor :  
**1)PETERSEN, Morten Hoeck**  
**2)VESTER, Jens**

(57) Abstract :

A hydraulic steering arrangement 1 is described comprising a supply port arrangement having at least a supply port (2, 3), a return port arrangement having at least a return port (4, 5), a working port arrangement having two working ports (6, 7), a first valve arrangement (8) having a first supply side (10) connected to the supply port arrangement (2, 3) and a first output side (11) connected to the working port arrangement (6, 7), a second valve arrangement (9) having a second supply side (12) connected to the supply port arrangement (2, 3) and a second output side (13) connected to the working port arrangement (6, 7), and a steering command device (19). It is an object of the present invention to improve the steering behaviour. To this end in a neutral steering angle the second valve arrangement (9) connects the first output side (11) to the return port arrangement (4, 5) and the first valve arrangement (8) connects the second output side (13) to the return port arrangement (4, 5)



No. of Pages : 16 No. of Claims : 11

(54) Title of the invention : DISPLAY CONTROL DEVICE FOR VEHICLE

(51) International classification :B60K0035000000,  
G09G0005000000,  
G06K0009320000,  
B60R0001000000,  
B41J0029000000

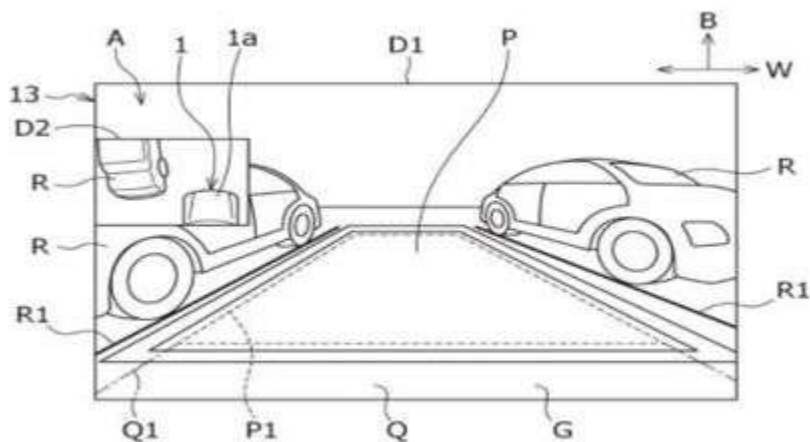
(31) Priority Document No :2019-071385  
(32) Priority Date :03/04/2019  
(33) Name of priority country :Japan  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Suzuki Motor Corporation**  
Address of Applicant :300 Takatsuka-cho, Minami-ku,  
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :  
**1)SUYAMA, Yozo**

(57) Abstract :

A display control device for a vehicle according to the present invention includes: a display unit which displays an image in a vehicle interior; and a control unit which displays a first section for showing a first image and a second section for showing a second image different from the first image on the display unit. The control unit displays the second section on the display unit on a side opposite to a position of the vehicle with respect to an outer edge line of a parking area or a scheduled travelling area in the first section, or the control unit sets a shortest distance between the first and second sections in accordance with a difference in importance between the first and second information respectively related to the first and second image.



No. of Pages : 51 No. of Claims : 6

(54) Title of the invention : IMPROVED AMBIENT WATER CONDENSER SYSTEM

(51) International classification :E03B0003280000,  
B01D0005000000,  
C02F0001040000,  
F25J0003040000,  
B01D0061360000

(31) Priority Document No :62/829,077

(32) Priority Date :04/04/2019

(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

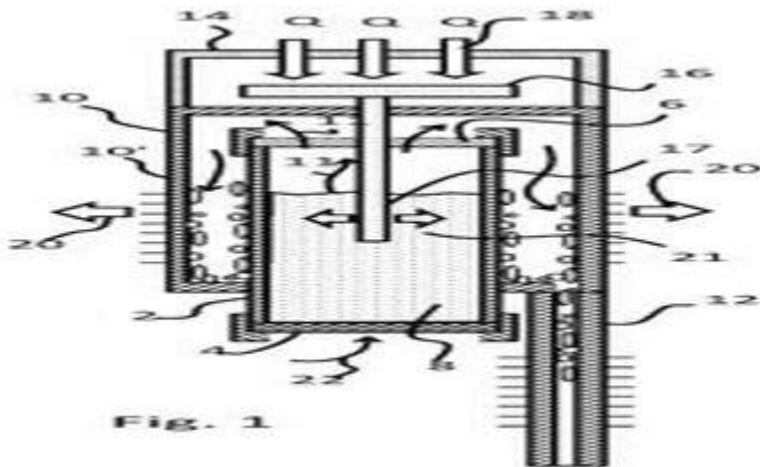
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Lonnie Johnson**  
Address of Applicant :263 Decatur Street SE, Atlanta GA  
30312, United States of America U.S.A.

(72)Name of Inventor :  
**1)Lonnie Johnson**

(57) Abstract :

An ambient water condenser system is disclosed having a condensation chamber which at least partially contains or surrounds a fluid reservoir which contains a volume or mass of an aqueous hygroscopic solution for condensing water from ambient air and a distillation process for extracting the water from the solution. The fluid reservoir has a heat source, a lower porous hydrophobic membrane, and an upper porous hydrophobic membrane. The heat source causes the hygroscopic solution near the top of reservoir to have a higher temperature which causes it to have a higher water vapor pressure, whereby the water vapor passing through the upper porous hydrophobic membrane and into the condensation chamber condenses into liquid water.



No. of Pages : 19 No. of Claims : 20

(54) Title of the invention : METHOD FOR CONFIRMING VALVE PHASE AT START OF INTERNAL COMBUSTION ENGINE AND VEHICLE OPERATION CONTROLLER

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

(31) Priority Document No :2019-070323

(32) Priority Date :02/04/2019

(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

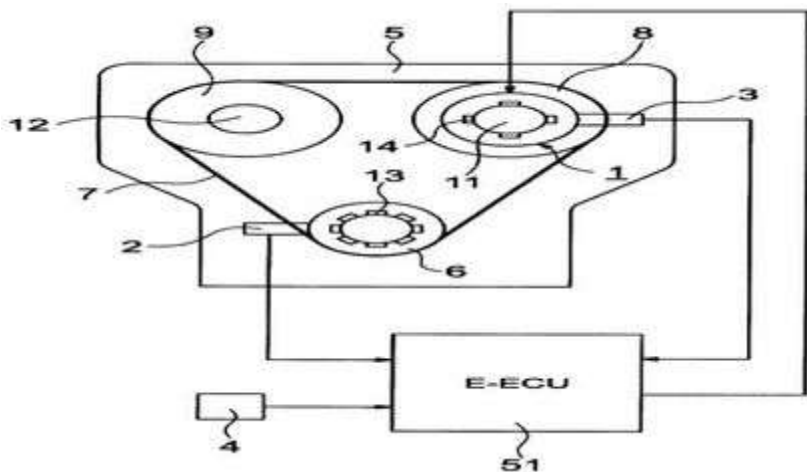
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)BOSCH CORPORATION**  
Address of Applicant :6-7, Shibuya 3-chome, Shibuya-ku,  
Tokyo 150-8360, Japan Japan  
**2)SUZUKI MOTOR CORPORATION**

(72)Name of Inventor :  
**1)LI, Yan**  
**2)HOMMA, Yuta**

(57) Abstract :

The present invention can promptly confirm a valve phase at a start of an internal combustion engine. An engine ECU 51 displaces the valve phase to the most retarded position by an electric drive WT system at the start of the engine 5, successively determines whether an absolute value of a valve phase deviation that is a difference between output signals of a cam angle sensor 3 at consecutive time falls below a specified reference deviation, determines that the valve phase has reached the most retarded position in the case where the absolute value of the valve phase deviation falls below the reference deviation, and uses the confirmed valve phase for start control for the engine 5.



No. of Pages : 28 No. of Claims : 6



(54) Title of the invention : ACTIVATABLE BATTERY

(51) International classification :G06F0017210000,  
G06F0017240000,  
G06F0016930000,  
B41M0003140000,  
G06F0017220000

(31) Priority Document No :10 2019 002 504.0

(32) Priority Date :05/04/2019

(33) Name of priority country :Germany

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

(87) International Publication No : NA

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

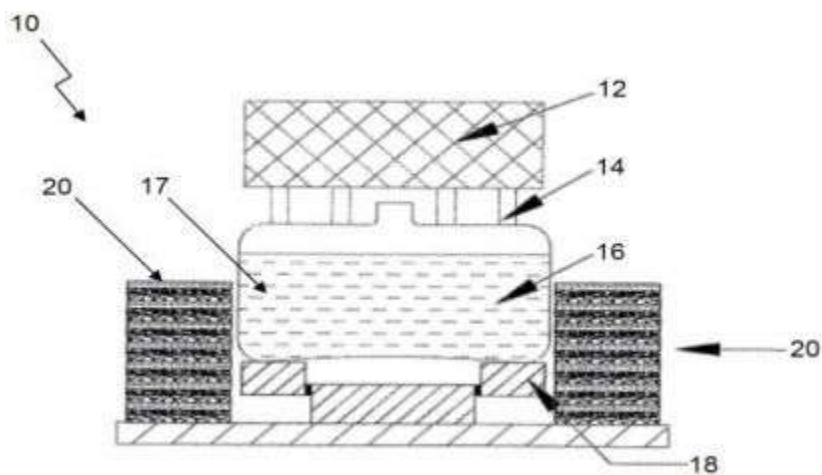
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Diehl & Eagle Picher GmbH**  
Address of Applicant :Fischbachstr. 20, 90552,  
Rthenbach/BRD, Germany Germany

(72)Name of Inventor :  
**1)Hein, Roland**

(57) Abstract :

The invention relates to an activatable battery (10) having at least one cathode (26), at least one anode (22), at least one absorptive separator layer (24) in contact with the anode (22) and the cathode (26) and also a liquid electrolyte (17) which is separated therefrom and is provided in an apparatus which liberates the electrolyte (17) in order to activate the battery in such a way that it comes into contact with the separator layer 5(24) and penetrates through the latter at least to such an extent that the electrolyte (17) electrically connects the anode (22) and the cathode (26) to one another, where the anode (22) consists of lithium or a lithium-containing alloy and the cathode (26) comprises elemental carbon, wherein the cathode (26) consists of an unsupported film comprising carbon nanotubes or of a film consisting of carbon nanotubes.



No. of Pages : 17 No. of Claims : 16

(54) Title of the invention : CONTROL SERVER AND REMOTE CONTROL SYSTEM

(51) International classification :B60H0001000000,  
H02J0007000000,  
B60W0030180000,  
G08G0001052000,  
G01S0019010000

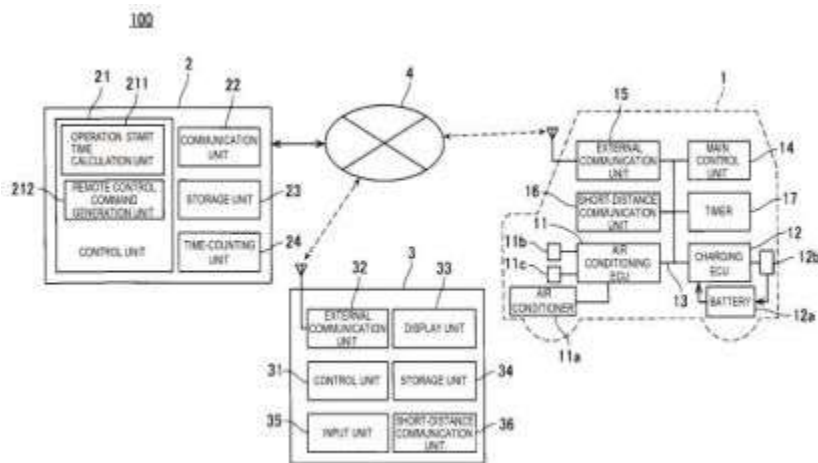
(31) Priority Document No :2019-070320  
(32) Priority Date :02/04/2019  
(33) Name of priority country :Japan  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Suzuki Motor Corporation**  
Address of Applicant :300 Takatsuka-cho, Minami-ku,  
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :  
**1)ASANO, Takayuki**  
**2)MOCHIZUKI, Kento**  
**3)TORII, Ryosuke**  
**4)OKAWACHI, Ryohei**

(57) Abstract :

Air conditioning in a vehicle interior or charging of a battery is performed before boarding while reducing power consumption of a battery. A control server (2) which controls operation of an air conditioning system and/or a battery charging system mounted on a vehicle (1) in accordance with an instruction from a user terminal (3) is provided. The control server (2) includes: a time-counting unit (24) configured to count a current time; a communication unit (22) configured to receive information on remote control for the vehicle from the user terminal; a control unit (21) configured to calculate an operation start time of the air conditioning system and/or the battery charging system and generate a remote control command for the vehicle based on the information on the remote control; and a communication unit (22) configured to transmit the remote control command to the vehicle when the operation start time is reached.



No. of Pages : 36 No. of Claims : 6

(54) Title of the invention : HYBRID VEHICLE

(51) International classification :H04L0029080000,  
C07D0417140000,  
C07D0417060000,  
C07D0263320000,  
G03G0015000000

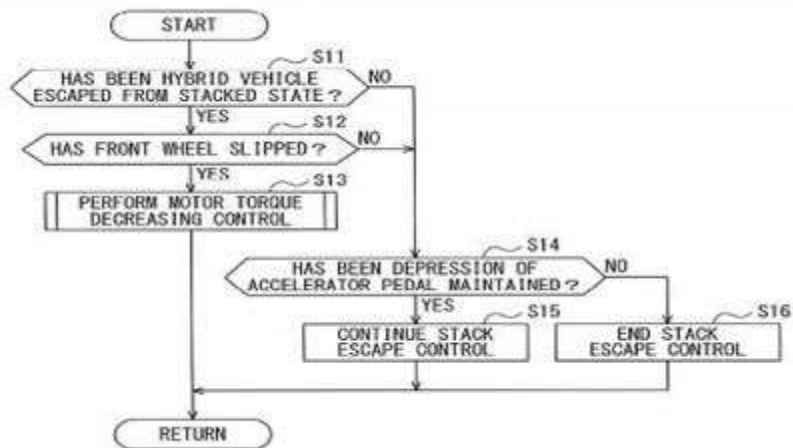
(31) Priority Document No :2019-071999  
(32) Priority Date :04/04/2019  
(33) Name of priority country :Japan  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SUZUKI MOTOR CORPORATION**  
Address of Applicant :300 Takatsuka-cho, Minamiku,  
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :  
**1)Ryuhei HAGURA**

(57) Abstract :

Provided is a hybrid vehicle driving a front wheel and a rear wheel by power of at least one of an engine and a motor, including: a hybrid controller capable of performing stack escape control of increasing a driving torque of the hybrid vehicle so that the hybrid vehicle escapes from a stacked state when an escape switch is pushed, in which the hybrid controller performs motor torque decreasing control of decreasing a motor torque when detecting that the hybrid vehicle has escaped from the stacked state and the front wheel has slipped during the stack escape control.



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

(54) Title of the invention : MOTORCYCLE

(51) International classification :F01N0013000000,  
B60K0013040000,  
B62L0003040000,  
F01N0003240000,  
F01N0013080000

(31) Priority Document No :2019-070639

(32) Priority Date :02/04/2019

(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

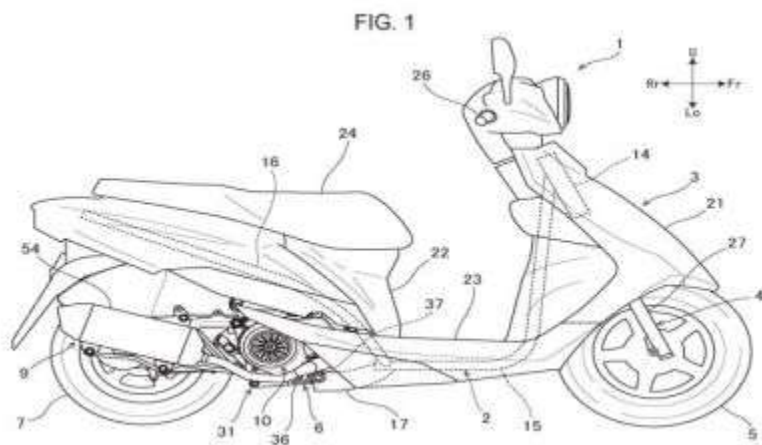
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SUZUKI MOTOR CORPORATION**  
Address of Applicant :300 Takatsuka-cho, Minami-ku,  
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :  
**1)Naoya OUCHI**  
**2)Yuki KUROSU**

(57) Abstract :

The object of the present invention is to accelerate a temperature increase of an exhaust gas sensor and activate the exhaust gas sensor at an early stage. A motorcycle includes: a cylinder 32; a cylinder head 33 coupled to the cylinder 32 from the front side and provided with an exhaust port 43; an exhaust pipe 51 connected to the exhaust port 43; an exhaust gas sensor 52 attached to the exhaust pipe 51; and an engine cover 11 that covers the cylinder 32 and the cylinder head 33. The exhaust pipe 51 includes: a first piping part 57 extending downward from the exhaust port, a second piping part 58 extending from the first piping part 57 to outside in a vehicle width direction, and a third piping part 59 extending rearward from the second piping part 57. The exhaust gas sensor 52 is disposed below the cylinder 32 and attached to the first piping part 57 such that a tip portion 52a faces rearward, and the engine cover 11 is provided with a notch 75 at a position where the cylinder 32 and the exhaust gas sensor 52 overlap each other when seen in a vehicle bottom view.



No. of Pages : 28 No. of Claims : 7

(54) Title of the invention : DRIVING FORCE CONTROL APPARATUS FOR VEHICLE

(51) International classification :B60W0030188000,  
B60W0010080000,  
B60W0020100000,  
B60K0006445000,  
B60W0010060000

(31) Priority Document No :2019-070026

(32) Priority Date :01/04/2019

(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

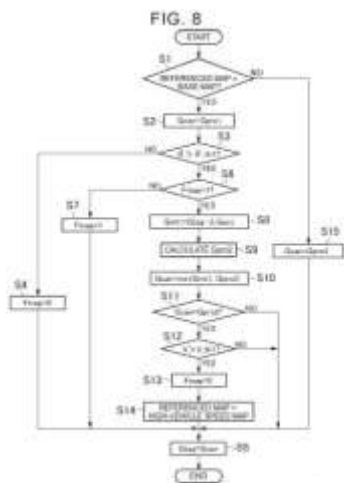
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)TOYOTA JIDOSHA KABUSHIKI KAISHA**  
Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken,  
471-8571, Japan. Japan

(72)Name of Inventor :  
**1)Hideaki OTSUBO**  
**2)Kuninori KUMAGAI**  
**3)Hiromitsu METSUGI**  
**4)Daijiro KAWASAKI**

(57) Abstract :

A driving force control apparatus for a vehicle includes an operation amount detection unit (7a); a vehicle speed detection unit (7d); and an electronic control unit (8). The electronic control unit (8) is configured to determine, when a vehicle speed is lower than a predetermined vehicle speed, a target driving force in a case where an operation amount of an accelerator pedal is in a predetermined range, based on a first provisional target driving force; and determine, when the vehicle speed is equal to or higher than the predetermined vehicle speed, the target driving force in the case where the operation amount of the accelerator pedal is in the predetermined range, based on a second provisional target driving force.



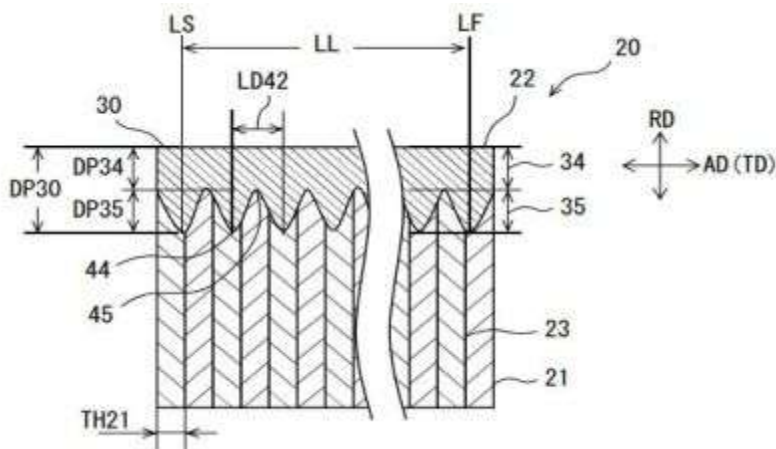
No. of Pages : 42 No. of Claims : 5

(54) Title of the invention : LAMINATED CORE, ROTARY ELECTRIC MACHINE, AND METHOD FOR MANUFACTURING LAMINATED CORE

(51) International classification	:G06F0021600000, G06F0017220000, G06F0017210000, C07D0403120000, G06F0017240000	(71)Name of Applicant : <b>1)DENSO CORPORATION</b> Address of Applicant :1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan Japan
(31) Priority Document No	:2019-073593	(72)Name of Inventor :
(32) Priority Date	:08/04/2019	<b>1)ETO, JUN</b>
(33) Name of priority country	:Japan	<b>2)YAMAUCHI, KAZUKI</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 :

To provide a laminated core in which a plurality of steel plates are stably connected. A laminated core 20 has a plurality of steel plates 21 that are laminated in a thickness direction TD. The laminated core has a line shaped welding mark 30 connecting a plurality of steel plates. The welding mark extends over the plurality of steel plates at the end face 22 where the plurality of steel plates are exposed. The welding mark has a welding depth DP30 which fluctuates with a wavelength LD42 that is longer than the thickness TH21 of the steel sheet. The welding mark has a continuous portion 34 in which the welding depth extends over a plurality of steel plates without fluctuation. Furthermore, the welding mark has a fluctuation portion 35 in which the welding depth periodically fluctuates over a plurality of steel plates. The depth DP34 in the continuous portion is substantially equal to the depth DP35 in the fluctuation portion.



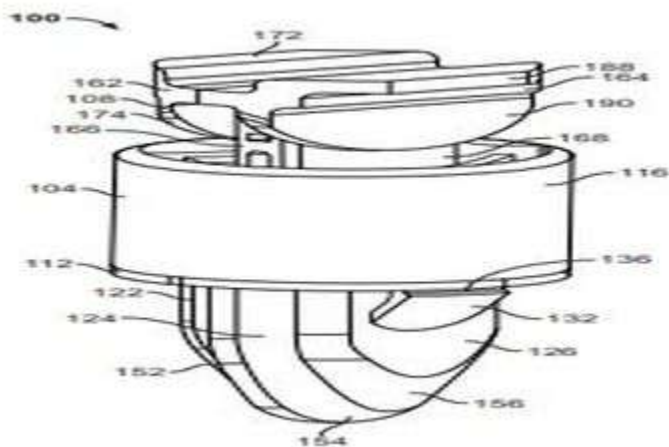
No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : DUAL ENGAGEMENT FASTENER

<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>:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000</p> <p>:62/828,639</p> <p>:03/04/2019</p> <p>:U.S.A.</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><b>1)ILLINOIS TOOL WORKS INC.</b></p> <p style="padding-left: 20px;">Address of Applicant :155 Harlem Avenue Glenview, Illinois 60025, United States of America U.S.A.</p> <p>(72)Name of Inventor :</p> <p><b>1)LEE, Joel R.</b></p>
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(57) Abstract :

A fastener assembly includes an insert and a base. The insert has a first plurality of teeth. The base defines a cavity to receive the insert and includes a second plurality of teeth to engage with the first plurality of teeth.



No. of Pages : 47 No. of Claims : 20

(54) Title of the invention : FLAP FITTING

(51) International classification	:E05F0001100000, E05D0015580000, E05D0003140000, B60N0002015000,	(71)Name of Applicant : <b>1)FLAP COMPETENCE CENTER KFT</b> Address of Applicant :Hengersor u30, 1184 Budapest, Hungary Hungary
(31) Priority Document No	:E05F0015630000	(72)Name of Inventor :
(32) Priority Date	:19166867.2	<b>1)BENDEFY, András</b>
(33) Name of priority country	:02/04/2019	
(86) International Application No	:EPO	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Flap fitting comprising a setting arm (13) which is attached to a base element (15) so as to be pivotable about an setting axis (S1) between an open position and a closed position, a toggle lever mechanism (31) having a first lever (32) and a second lever (34) connected to each other pivotably about a pivot axis (S2), and an energy accumulator (21), wherein the energy accumulator (21) acts on the first lever (32) at a first link point (33) spaced from the pivot axis (S2) and on the second lever (34) at a second link point (35) spaced from the pivot axis (S2), wherein the first link point (33) and the second link point (35) are acted upon by the energy accumulator (21) with force towards one another, wherein a setting contour arrangement (36) with a setting contour (37) and a guide element (38) is arranged between the first lever (32) and the setting arm (13), wherein the guide element (38) is movable along the setting contour (37) and wherein the setting arm (13) is forcedly loaded in the direction of rotation about the setting axis (S1) at least in a partial section along the setting contour (37) by the first lever (32) via the setting contour arrangement (36).

No. of Pages : 20 No. of Claims : 13



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014012992 A

(19) INDIA

(22) Date of filing of Application :25/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PHOTOELECTRIC SMOKE DETECTORS

(51) International classification	:G08B0017107000, G08B0017113000, B62D0035000000, G08B0003100000, A23B0004052000	(71) <b>Name of Applicant :</b> <b>1)CARRIER CORPORATION</b> Address of Applicant :13995 Pasteur Blvd., Palm Beach Gardens, Florida 33418, United States of America U.S.A.
(31) Priority Document No	:62/827612	(72) <b>Name of Inventor :</b>
(32) Priority Date	:01/04/2019	<b>1)GADONNIEX, Dennis Michael</b>
(33) Name of priority country	:U.S.A.	<b>2)PATEL, Vipul</b>
(86) International Application No	:NA	<b>3)SCHATZ, Paul</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 :

A photoelectric smoke detector, includes an optics cover that provides a smoke chamber that has a smoke chamber opening, a CO detector is mounted to the optics cover. An inner cover provides a first opening and a second opening. The first opening receives a portion of the CO detector and the second opening is aligned with the smoke chamber opening. A spoiler includes a U-shaped fin arrangement and is received against the inner cover.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013187 A

(19) INDIA

(22) Date of filing of Application :26/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ENGINE FUEL SUPPLY DEVICE

(51) International classification	:F23R0003280000, C23C0016455000, F02M0069040000, F02C0007220000, F23R0003340000	(71) <b>Name of Applicant :</b> <b>1)Suzuki Motor Corporation</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-070321	(72) <b>Name of Inventor :</b> <b>1)YAMADA, Shogo</b>
(32) Priority Date	:02/04/2019	
(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 :

Engine fuel supply device includes: a plurality of first injectors (31) coupled to the first delivery pipe (30) and which is configured to inject a first fuel into the intake passages (21, 23); a plurality of second injectors (41) coupled to the second delivery pipe (40) and which is configured to inject a second fuel into the intake passages (21, 23). Two of the first injectors (31) are arranged in one of the intake passages (21, 23) and one of the second injectors (41) is arranged in the one of the intake passages (21, 23). The two first injectors (31) in the one of the intake passages (21, 23) are positioned such that two first connectors (32) face away from each other. At least a part of the second injector (41) is arranged in a space between the two first connectors (32).

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013312 A

(19) INDIA

(22) Date of filing of Application :26/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : VEHICLE BODY SIDE STRUCTURE

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71)Name of Applicant : <b>1)TOYOTA JIDOSHA KABUSHIKI KAISHA</b> Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(31) Priority Document No	:2019-071353	(72)Name of Inventor : <b>1)HISADA, Kohei</b>
(32) Priority Date	:03/04/2019	
(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 :

An outer panel (22) of a vehicle body side structure (10) includes a first region (E1) overlapping a lower end portion (16) of the pillar (14), and a second region (E2) adjacent to a first region (E1) on a front side and a rear side. An inner panel (26) includes: a third region (E3) having a part facing the first region (E1) in a vehicle width direction; and a fourth region (E4) adjacent to the third region (E3) on the front side and the rear side. The second region (E2) is set to be a first-strength region having a higher strength than the first region (E1). The third region (E3) is set to be a second-strength region having a higher strength 10 than the fourth region (E4). The second region (E2) and the third region (E3) are connected to each other.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013482 A

(19) INDIA

(22) Date of filing of Application :27/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : VEHICLE

(51) International classification	:F02N0011080000, F02D0041000000, F02D0041040000, B60W0030180000, F02D0019060000	(71) <b>Name of Applicant :</b> <b>1)Suzuki Motor Corporation</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2019-071074	(72) <b>Name of Inventor :</b>
(32) Priority Date	:03/04/2019	<b>1)NASUDA, Yuki</b>
(33) Name of priority country	:Japan	<b>2)MARUYA, Toru</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 :

There is provided a vehicle (10) comprising: an internal combustion engine (11) configured to use two different fuels (F1, F2); and a control unit (12) configured to automatically stop the internal combustion engine when a predetermined automatic stop condition is satisfied, and to restart the internal combustion engine when a predetermined restart condition is satisfied. The control unit is configured to perform fuel switching control so as to: switch a used fuel of the internal combustion engine after completion of the restart, in a case where change of the used fuel is decided while the internal combustion engine is in an automatic stop, and switch the used fuel before beginning of start of the internal combustion engine, in a case where the change of the used fuel is decided while the internal combustion engine is in a stop other than the automatic stop.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013780 A

(19) INDIA

(22) Date of filing of Application :30/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SORBENTS FOR CAPTURING ACID AND GREENHOUSE GASES

(51) International classification	:B01J0020340000, B01D0053620000, A01G0009140000, B01J0020280000, B09C0001080000	(71)Name of Applicant : <b>1)Anuj K. Saha</b> Address of Applicant :610 Spring Creek Ln, Martinez, GA 30907, USA U.S.A.
(31) Priority Document No	:US16/375,800	(72)Name of Inventor : <b>1)Anuj K. Saha</b>
(32) Priority Date	:04/04/2019	
(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 :

The sorbents for capturing acid and greenhouse gases converts red mud into a sorbent material that can be used to remove acid and greenhouse gases, utilizing a series of chemical reactions. The first set of reactions entail sorption of the acid/greenhouse gases and subsequent neutralization by the alkali content of the red mud. The salts generated by the neutralization reactions decompose to release the acid gases which are immediately converted to environmentally benign elemental products (N<sub>2</sub>, O<sub>2</sub>, S) by thermo-catalytic reactions. In a different set of reactions, the alkaline earth oxides (CaO and MgO) present in the sorbent capture the acid/greenhouse gases and convert them to nitrate, nitrite, carbonate and sulfite salts. The salts (beside carbonate) decompose to yield the acid gases which are converted to elemental products by thermo-catalytic reactions. The loaded sorbents are thermally regenerated to the oxide forms for re-capturing the gases.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013790 A

(19) INDIA

(22) Date of filing of Application :30/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SUCCESSIVE APPROXIMATION REGISTER ANALOG-TO-DIGITAL CONVERTER

(51) International classification	:H03M0001460000, H03M0001060000, H03M0001800000, H03M0001380000, H03K0005240000	(71) <b>Name of Applicant :</b> <b>1)ALI CORPORATION</b> Address of Applicant :6F, NO.1, JINSHAN 8TH ST., HSINCHU 300, TAIWAN
(31) Priority Document No	:201910265660.5	(72) <b>Name of Inventor :</b>
(32) Priority Date	:03/04/2019	<b>1)FAN, DUEN-TING</b>
(33) Name of priority country	:China	<b>2)LAN, TZU-WEI</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 :

A successive approximation register analog-to-digital converter including a comparator, a capacitor array, a switch array, and a specification selection circuit is provided. The comparator has a first input terminal, a second input terminal and an output terminal for comparing the inputs of the first input terminal and the second input terminal, and outputting the Comparison result to the output terminal. The capacitor array is coupled to the comparator and includes a plurality of composed capacitors, and the switch array is coupled to the capacitor array. The specification selection circuit is coupled to the comparator and the capacitor array, and the specification selection circuit includes a switch and a capacitor and receives a common voltage.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013826 A

(19) INDIA

(22) Date of filing of Application :30/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CONNECTING ROD AND JACQUARD MECHANISM COMPRISING SUCH A CONNECTING ROD

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71)Name of Applicant : <b>1)STAUBLI LYON</b> Address of Applicant :31 Rue des Frères Lumière, 69680 CHASSIEU, France France
(31) Priority Document No	:1903573	(72)Name of Inventor :
(32) Priority Date	:03/04/2019	<b>1)PRZYTARSKI Patrice</b>
(33) Name of priority country	:France	<b>2)BUCHET Baptiste</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 :

A connecting rod (20) between a blade (124) supporting moving hooks and a driving bar (74) of a Jacquard mechanism (2), the connecting rod comprising a body (22) provided with at least one through housing (222, 224) for receiving a bearing shaft (30), with the possibility of relative pivoting about a central axis (B222, B224) of the through housing. The body (22) of the connecting rod bears a first sealing gasket (24), at the first axial end (222C, 224C) of the through housing (222, 224), and a second sealing gasket (24), at the second axial end (222D, 224D) of the through housing.

No. of Pages : 28 No. of Claims : 16

(54) Title of the invention : SHED FORMING DEVICE AND JACQUARD LOOM INCLUDING SUCH A DEVICE

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71)Name of Applicant : <b>1)STAUBLI LYON</b> Address of Applicant :31 Rue des Frères Lumière, 69680 CHASSIEU, France, France
(31) Priority Document No	:1903572	(72)Name of Inventor :
(32) Priority Date	:03/04/2019	<b>1)PRZYTARSKI Patrice</b>
(33) Name of priority country	:France	<b>2)BUCHET Baptiste</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 :

Shed forming device and Jacquard loom including such a deviceThe shed forming device (2) for a Jacquard loom, comprising two series of knives, an upper oscillating shaft (40) and a lower oscillating shaft (42) that are respectively provided, at each of their ends, with two tilting levers each coupled to a driving bar by a connecting rod as well as two chassis platens(22, 24), between which the two series of knives and the oscillating shafts extend and which are provided with articulation bearings (220, 222, 240, 242) of the oscillating shafts. This device also comprises an input shaft driven by a continuous rotational movement and equipped with a first eccentric and a second eccentric that are positioned near a first platen(22), among the twochassis platens(22, 24), outside a volume (V2) defined between these platens. The first eccentric driving a first control connecting rod hitched to a first crank(428)belonging to a first oscillating shaft(42), among the two oscillating shafts(40, 42);the second eccentric driving a second control connecting rod hitched to a second crank(408)belonging to the second oscillating shaft(40).The first control connecting rod beingfurther from the first platen than the second control connecting rod.The two eccentrics, the two control connecting rods and the two cranks(408, 428) are contained in a casing (90) that supports at least one additional articulation bearing (902) of the first oscillating shaft(42).

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013834 A

(19) INDIA

(22) Date of filing of Application :30/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71)Name of Applicant : <b>1)SUZUKI MOTOR CORPORATION</b> Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan <b>2)BOSCH CORPORATION</b>
(31) Priority Document No	:2019-070318	(72)Name of Inventor :
(32) Priority Date	:02/04/2019	<b>1)Shingo HONDA</b>
(33) Name of priority country	:Japan	<b>2)Tatsunari IGA</b>
(86) International Application No	:NA	<b>3)Yan LI</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 :

A control device for an internal combustion engine(1) includes a variable valve timing device(40) that changes a valve timing of an intake valve(22) or an exhaust valve(23) by an electric motor (41). The control device performs: a first operation (Q1) of energizing the electric motor(41) in response to an engine stop request of the internal combustion engine(1) to set a valve timing of the intake valve(22) to a most retarded angle or to set a valve timing of the exhaust valve(23) to a most advanced angle; and a second operation(Q2) of energizing the electric motor(41) after rotation of the internal combustion engine(1) completely stops to set the valve timing of the intake valve(22) operated in the first operation(Q1) to the most retarded angle or to set the valve timing of the exhaust valve(23) operated in the first operation(Q1) to the most advanced angle.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013867 A

(19) INDIA

(22) Date of filing of Application :30/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SORPTION-BASED SUBCOOLER

(51) International classification	:F25B0009000000, F25B0001100000, F25B0041060000, F25B0040000000, F25B0040020000	(71)Name of Applicant : <b>1)CARRIER CORPORATION</b> Address of Applicant :13995 Pasteur Blvd., Palm Beach Gardens, Florida 33418, United States of America U.S.A.
(31) Priority Document No	:62/830,924	(72)Name of Inventor : <b>1)HOYSALL, Dhruv Chanakya</b>
(32) Priority Date	:08/04/2019	<b>2)FENG, Yinshan</b>
(33) Name of priority country	:U.S.A.	<b>3)VERMA, Parmesh</b>
(86) International Application No	:NA	<b>4)HASSEL, Bart Antonie van</b>
Filing Date	:NA	<b>5)RANJAN, Rajiv</b>
(87) International Publication 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 cooling system is provided and includes a compressor, an expansion valve, a gas cooler through which a refrigerant received from the compressor passes toward the expansion valve in a supercritical state, an evaporator interposed between the expansion valve and the compressor and a vapor sorption subcooling system. The vapor sorption subcooling system includes a desorber disposed to remove heat from refrigerant flowing from the gas cooler toward the expansion valve.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014013925 A

(19) INDIA

(22) Date of filing of Application :30/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD FOR FINGERPRINT RECOGNITION, ELECTRONIC DEVICE, AND NON-TRANSITORY COMPUTER-READABLE STORAGE MEDIUM

(51) International classification	:G06K0009000000, G06K0009320000, G06F0003048900, G06K0009030000, H04N0021440000	(71)Name of Applicant : <b>1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.</b> Address of Applicant :NO. 18, HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG 523860, CHINA China
(31) Priority Document No	:201910265453.X	(72)Name of Inventor :
(32) Priority Date	:01/04/2019	<b>1)ZHANG, HAIPING</b>
(33) Name of priority country	:China	<b>2)CHEN, BIAO</b>
(86) International Application No	:NA	<b>3)ZHAN, WENXI</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 :

Provided are a method for fingerprint recognition, an electronic device, and a non-transitory computer-readable storage medium. The method is applicable to the electronic device. The method includes the following. An image of a user's finger placed on a fingerprint collecting region of a display screen of the electronic device is collected as an original fingerprint image. A corrected fingerprint image is obtained according to the original fingerprint image and a predetermined foreign material image, where the predetermined foreign material image is obtained when the user's finger is not placed on the fingerprint collecting region and indicative of a foreign material on the fingerprint collecting region. Determine whether a match between the corrected fingerprint image and a pre-stored fingerprint image exists by comparing the corrected fingerprint image with the pre-stored fingerprint image. The electronic device is triggered to perform a preset action in response to that the match exists.

No. of Pages : 56 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014014223 A

(19) INDIA

(22) Date of filing of Application :31/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ANTENNA ASSEMBLY AND ELECTRONIC DEVICE

(51) International classification	:H01Q0009040000, H04B0001180000, H01Q0001380000, H01Q0005335000, H01Q0001240000	(71)Name of Applicant : <b>1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.</b> Address of Applicant :NO. 18, HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG 523860, CHINA China
(31) Priority Document No	:201910283830.2	(72)Name of Inventor :
(32) Priority Date	:08/04/2019	<b>1)JIA, YUHU</b>
(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 :

An antenna assembly (10) and an electronic device (1) are provided according to the present disclosure. The antenna assembly (10) includes an antenna module (100) and a bandwidth matching layer (200). The antenna module (100) is configured to transmit and receive, within a preset direction range, a millimeter wave signal in a target frequency band. The bandwidth matching layer (200) is spaced apart from the antenna module (100), and at least part of the bandwidth matching layer (200) is disposed within the preset direction range. The bandwidth matching layer (200) is configured to match an impedance of the antenna module (100) to an impedance of free space to enable an impedance bandwidth of the antenna module (100) in the target frequency band when the bandwidth matching layer (200) is provided to be greater than an impedance bandwidth of the antenna module (100) in the free space.

No. of Pages : 53 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014014349 A

(19) INDIA

(22) Date of filing of Application :31/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AIR CONDITIONING SYSTEM AND CONTROL METHOD THEREOF

(51) International classification	:F25B0040020000, F25B0041040000, F25B0043000000, F25B0001100000, F25B0009080000	(71)Name of Applicant : <b>1)CARRIER CORPORATION</b> Address of Applicant :13995 Pasteur Blvd., Palm Beach Gardens, Florida 33418, United States of America U.S.A.
(31) Priority Document No	:201910276085.9	(72)Name of Inventor : <b>1)LIU, Hongsheng</b>
(32) Priority Date	:08/04/2019	<b>2)COGSWELL, Frederick J.</b>
(33) Name of priority country	:China	<b>3)VERMA, Parmesh</b>
(86) International Application No	:NA	<b>4)FENG, Yinshan</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 :

An air conditioning system and a control method thereof are provided by the present disclosure. The air conditioning system includes a main circuit and a first subcooling circuit, wherein the main circuit has: a main compressor and an injector; a gas cooler and a gas-liquid separator connected between the main compressor and the injector; and a main throttling element and an evaporator connected between the gas-liquid separator and the injector; and wherein the first subcooling circuit has: a first subcooling compressor, a first condenser, a first subcooling throttling element and a first subcooler connected in sequence; wherein the first subcooler is further disposed in a flow path between the outlet of the injector and the gas-liquid separator. According to the air conditioning system of the present disclosure and the control method thereof, a two-phase flow of refrigerant flowing out of the outlet of the injector of the main circuit is further cooled by the first subcooling circuit disposed downstream of the injector, so that part of the gas-phase refrigerant is further condensed into a liquid-phase refrigerant; as a result, the proportion of the liquid-phase refrigerant that subsequently enters the evaporator to participate in heat exchange is increased, thereby effectively improving the system performance and energy efficiency thereof.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014014395 A

(19) INDIA

(22) Date of filing of Application :31/03/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ELECTRONIC DEVICE, CONTROL METHOD, AND RECORDING MEDIUM

(51) International classification	:G06F0003120000, G06F0001322800, B62D0005000000, G07G0001140000, G06F0001328700	(71)Name of Applicant : <b>1)Casio Computer Co., Ltd.</b> Address of Applicant :6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan Japan
(31) Priority Document No	:2019-072905	(72)Name of Inventor : <b>1)Hiroaki YOSHIZAWA</b>
(32) Priority Date	:05/04/2019	
(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 :

An electronic device includes a processor and a memory storing an instruction to be executed by the processor. The electronic device is configured to be able to execute processing according to the set processing mode by the processor. The processor executes default mode setting processing of setting the processing mode to a default processing mode, and controls not to change the processing mode even when a default operation for changing the processing mode is at least performed during a first period until a power supply of the electronic device is turned off for the first time after the execution of the default mode setting processing is completed.

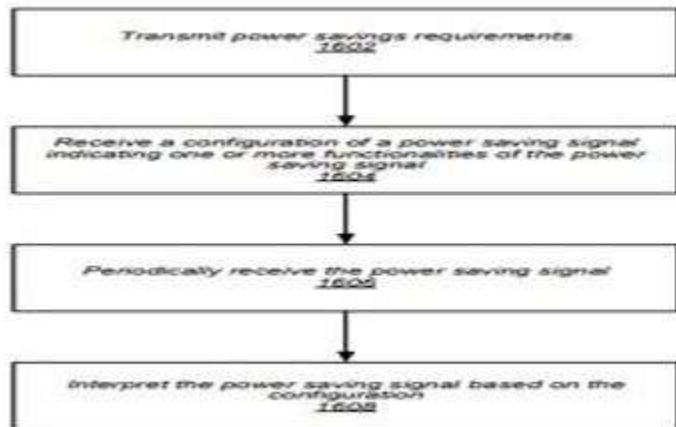
No. of Pages : 92 No. of Claims : 20

(54) Title of the invention : CONFIGURABLE POWER SAVING SIGNAL WITH MULTIPLE FUNCTIONALITIES IN 5G NR

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71)Name of Applicant : <b>1)APPLE INC.</b> Address of Applicant :One Apple Park Way, Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:62/827,810	(72)Name of Inventor :
(32) Priority Date	:01/04/2019	<b>1)KIM, Yuchul</b>
(33) Name of priority country	:U.S.A.	<b>2)ZENG, Wei</b>
(86) International Application No	:NA	<b>3)SUN, Haitong</b>
Filing Date	:NA	<b>4)ZHANG, Dawei</b>
(87) International Publication No	: NA	<b>5)TANG, Jia</b>
(61) Patent of Addition to Application Number	:NA	<b>6)LI, Yang</b>
Filing Date	:NA	<b>7)JI, Zhu</b>
(62) Divisional to Application Number	:NA	<b>8)SEBENI, Johnson O.</b>
Filing Date	:NA	

(57) Abstract :

Apparatuses, systems, and methods for a wireless device to perform methods for configuring a power savings signal in fifth generation (5G) new radio (NR) networks. The wireless device may transmit, to a base station within a network, power savings requirements and receiving, from the base station, a configuration of a power saving signal, where the configuration indicates one or more functionalities of the power saving signal. The wireless device may periodically receive, from the base station, the power saving signal and interpret the power saving signal based on the configuration. The configuration of the power saving signal may be received via radio resource control signaling.



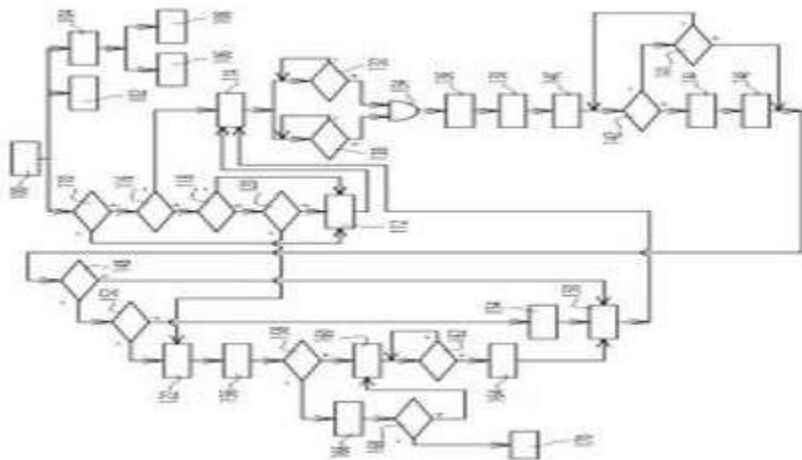
No. of Pages : 79 No. of Claims : 20

(54) Title of the invention : ELECTRIC PROTECTION SYSTEMS AND METHODS

<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>:G06F0017210000,</p> <p>G06F0017240000,</p> <p>G06F0016930000,</p> <p>B41M0003140000,</p> <p>G06F0017220000</p> <p>:1903678</p> <p>:05/04/2019</p> <p>:France</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><b>1)Schneider Electric Industries SAS</b></p> <p style="padding-left: 20px;">Address of Applicant :35 rue Joseph Monier, 92500 Rueil Malmaison - FRANCE France</p> <p>(72)Name of Inventor :</p> <p><b>1)NEYRET Yannick</b></p>
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(57) Abstract :

This method comprises steps of: - measuring (102, 104) a voltage and an electric current in an electric link; - calculating (106, 108), repeatedly, from the measured values of current, a first moving average and a second moving average, the second moving average being calculated over a duration longer than the first moving average; - comparing (120) the measured voltage value with a predefined voltage threshold value; - comparing (132) the current value of the first moving average with the current value of the second moving average; - identifying (134) a condition of trigger of the protection device when the measured voltage value is lower than the predefined voltage threshold value for a duration longer than a predefined duration threshold and when the current value of the first moving average is higher than the current value of the second moving average.



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



(54) Title of the invention : CLAMPING DEVICE WITH PLANAR CONTACT

(51) International classification :C07D0403120000,  
G06F0017210000,  
G06F0017220000,  
G06F0016930000,  
H04W0036220000

(31) Priority Document No :10 2019 108 817.8

(32) Priority Date :04/04/2019

(33) Name of priority country :Germany

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

(87) International Publication No : NA

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

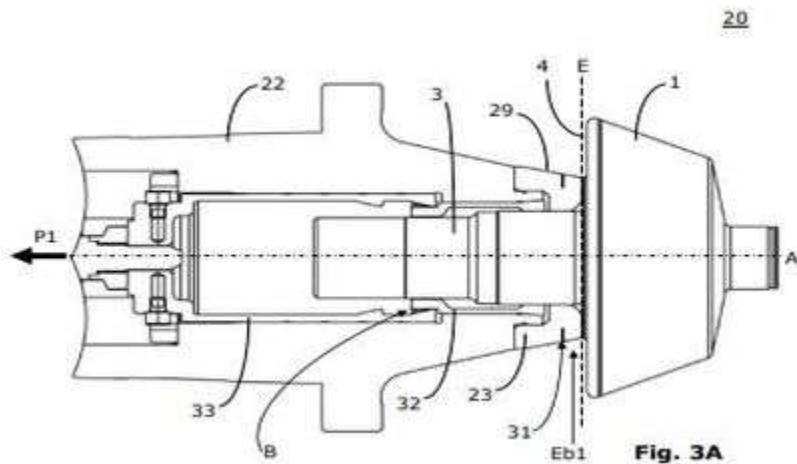
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Klingelberg AG**  
Address of Applicant :Binzm<sup>1</sup>/<sub>4</sub>hlestrasse 171, 8050 Z<sup>1</sup>/<sub>4</sub>rich,  
Switzerland Switzerland

(72)Name of Inventor :  
**1)Weber J<sup>1</sup>/<sub>4</sub>rgen**

(57) Abstract :

Clamping device (20) having a receiving opening which is arranged concentrically to a workpiece spindle axis (A), wherein - the clamping device (20) is designed for clamping a gear workpiece (1) comprising a head region (2) and a shaft (3), - the clamping device (20) comprises an annular planar contact surface, which • is arranged concentrically to the workpiece spindle axis (A), • is located in a workpiece-side end region (Eb1) of the clamping device (20), and • which extends essentially perpendicular to the workpiece spindle axis (A), wherein at least one circumferential groove (31) is provided in the workpiece-side end region (Eb1), which groove extends from an outer surface (29) of the clamping device (20) radially in the direction of the workpiece spindle axis (A) and which provides the clamping device (20) with elasticity in the region of the planar contact surface.



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

(54) Title of the invention : ENTERIC COATING COMPOSITION, SOLID PREPARATION AND METHOD FOR PRODUCING SOLID PREPARATION

(51) International classification	:A61K0047380000, A61K0009500000, C08L0001320000, G02B0005300000, A61K0031525000	(71) <b>Name of Applicant :</b> <b>1)SHIN-ETSU CHEMICAL CO., LTD.</b> Address of Applicant :6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo, 100-0004, Japan Japan
(31) Priority Document No	:2019-071880	(72) <b>Name of Inventor :</b>
(32) Priority Date	:04/04/2019	<b>1)WARASHINA Shogo</b>
(33) Name of priority country	:Japan	<b>2)Yasuyuki HIRAMA</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 :

There are provided an enteric coating composition having an excellent film-forming property, being capable of forming a film at a lower temperature than conventional compositions, and/or being capable of avoiding decomposition of a drug due to a high temperature and operational troubles due to or nozzle clogging; and others. More specifically, there are provided an enteric coating composition containing hypromellose acetate succinate having a molar substitution of hydroxypropoxy groups of 0.40 or more, and water; a method for producing a solid preparation including steps of coating a drug-containing core with the enteric coating composition to obtain a coating layer, and drying the coating layer; and a solid preparation containing a drug-containing core, and a coating layer directly or indirectly on the core, the coating layer containing a hypromellose acetate succinate having a molar substitution of hydroxypropoxy groups of 0.40 or more.

No. of Pages : 36 No. of Claims : 7

(54) Title of the invention : POWER CONVERTER

(51) International classification :H02M0007000000,  
H01L0023473000,  
H05K0007200000,  
B01D0065020000,  
H02K0011330000

(31) Priority Document No :2019-073762

(32) Priority Date :08/04/2019

(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

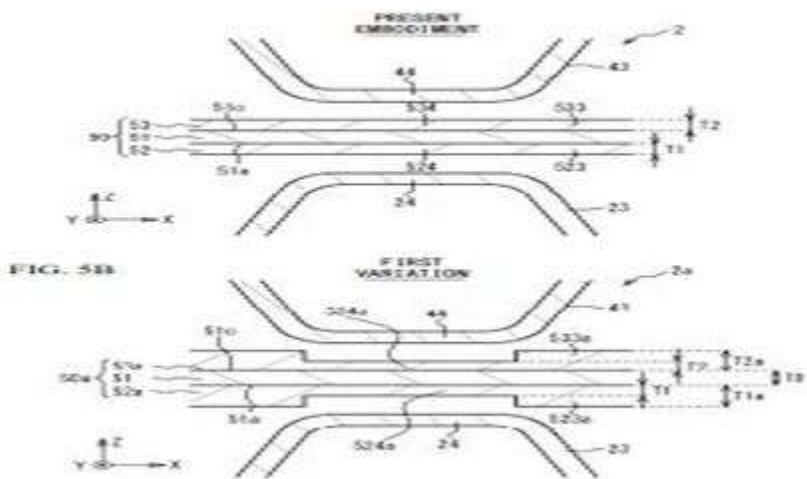
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)DENSO CORPORATION**  
Address of Applicant :1-1, Showa-cho, Kariya-city, Aichi-pref, 448-8661 JAPAN Japan

(72)Name of Inventor :  
**1)Masataka DEGUCHI**  
**2)Akihiro UEDA**  
**3)Koji YASUI**  
**4)Hirotaka OHNO**

(57) Abstract :

**ABSTRACT POWER CONVERTER** A power converter (2; 2a) includes: a plurality of power modules (10; 110) that houses semiconductor elements (11a; 11b) for electric power conversion; a pair of holding plates (31; 32) sandwiching a stacked body (20) of the plurality of power modules (10; 110) in the first direction; a pair of connecting beams (33; 133) that connects the pair of holding plates (31; 32) respectively on both side ends of the stacked body (20) in the second direction intersecting the first direction; and a substrate (40) connected to control terminals (15) of the power modules (10; 110). At least one of the pair of holding plates (31; 32) is provided with a positioner (35; 36) to position the substrate (40). Selected drawing: FIG. 5



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

(54) Title of the invention : PROCESS FOR PREPARING LACTIC ACID

(51) International classification	:C07C0059080000, A23L0002520000, B01D0061580000, C01D0003040000, C07C0051410000	(71)Name of Applicant : <b>1)FGV Applied Technologies Sdn Bhd</b> Address of Applicant :Level 9, Wisma FGV, Jalan Raja Laut, 50350 Kuala Lumpur Malaysia
(31) Priority Document No	:PI2019001912	(72)Name of Inventor : <b>1)Nurul Lina Mohamad.</b>
(32) Priority Date	:05/04/2019	
(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	

(57) Abstract :

The present invention relates to a process of preparing lactic acid from palm kernel cake (PKC) wherein the PKC is expeller pressed PKC. The process of preparing lactic acid from palm kernel cake (PKC) includes the steps of (i) grinding/crushing PKC to obtain ground PKC; (ii) sterilizing the ground PKC obtained in step (i); (iii) hydrolysing enzymatically the sterilized PKC from step (ii) to yield PKC medium hydrolysate; (iv) growing *Lactobacillus* sp. to produce *Lactobacillus* sp. inoculum; (v) adding either sodium hydroxide or calcium carbonate to the PKC medium hydrolysate obtained in step (iii); (vi) treating PKC medium obtained in step (v) with *Lactobacillus* sp. inoculum that is produced in step (iv) to produce fermentation broth and residue wherein the residue is PKC solid and the fermentation broth containing lactic acid; (vii) separating the fermentation broth obtained in step (vi) from the PKC solid obtained in step (vi); (viii) mixing the fermentation broth obtained in step (vii) with calcium hydroxide or sodium hydroxide yielding a calcium lactate solution or sodium lactate solution; (ix) treating the calcium lactate solution or sodium lactate solution obtained in step (viii) with sodium sulphide or calcium sulphide to produce a solution; (x) decolorizing the solution obtained in step (ix); (xi) acidifying the solution obtained in step (x) to obtain a solution and a precipitate; and (xii) filtering the precipitate from the solution obtained in step (xi), wherein the precipitate is calcium sulfate dehydrate or sodium sulfate dehydrate and wherein the filtrate is lactic acid.

No. of Pages : 15 No. of Claims : 13

(54) Title of the invention : THERMAL INTERFACE FOR PLURALITY OF DISCRETE ELECTRONIC DEVICES

(51) International classification	:H05K0007200000, H05K0001020000, H01L0023373000, H01L0023400000, H02K0001180000	(71) <b>Name of Applicant :</b> <b>1)TM4 INC.</b> Address of Applicant :135 J.-Armand Bombardier Suite 25 Boucherville, J4B 8P1, Canada Canada
(31) Priority Document No	:62/830,030	(72) <b>Name of Inventor :</b>
(32) Priority Date	:05/04/2019	<b>1)DEXTRAZE, Jean-Philippe</b>
(33) Name of priority country	:U.S.A.	<b>2)DESBIENS, Jean-Philippe</b>
(86) International Application No	:NA	<b>3)CARON, Maxime</b>
Filing Date	:NA	<b>4)PHILIBERT, Yannick</b>
(87) International Publication 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 thermal interface for discrete semiconductor devices (such as IGBT<sup>™</sup>s) having a thermally conductive structure, a PCB populated with discrete electronic components, and each of the discrete semiconductor devices having a housing extending beyond the edge of the PCB and in a direction substantially parallel to a plane of the PCB, and a clamp bar secured to the thermally conductive structure adapted to compressively secure each housing to the thermally conductive structure and adapted to maintain thermal contact between a surface of each housing and the surface of the thermally conductive structure. A thermally conductive and electrically insulative pad is positioned between the semiconductor device housing and the thermally conductive structure. A casing enclosing the interface and PCB includes the thermally conductive structure formed on a backwall of the casing.



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

(54) Title of the invention : ANTENNA MODULE INCLUDING COMPENSATOR FOR COMPENSATING ELECTRICAL PATH DIFFERENCE AND ELECTRONIC DEVICE INCLUDING THE SAME

(51) International classification	:C07D0403120000, H04W0036220000, C07D0403140000, C07D0417060000, C07D0413040000	(71) <b>Name of Applicant :</b> <b>1)SAMSUNG ELECTRONICS CO., LTD.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0039067	(72) <b>Name of Inventor :</b>
(32) Priority Date	:03/04/2019	<b>1)Seungho CHOI</b>
(33) Name of priority country	:Republic of Korea	<b>2)Seungtae KO</b>
(86) International Application No	:NA	<b>3)Yoongeon KIM</b>
Filing Date	:NA	<b>4)Youngju LEE</b>
(87) International Publication 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 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. An antenna module includes a printed circuit board on which at least one layer is stacked and including a feed port formed at a portion of the upper surface thereof; a first antenna array disposed on the upper surface of the printed circuit board; a second antenna array disposed on the upper surface of the printed circuit board and spaced apart from the first antenna array; a first feed line to electrically connect the feed port and the first antenna array, the first feed line including a compensator to adjust the length of the first feed line; and a second feed line to electrically connect the feed port and the second antenna array.



No. of Pages : 48 No. of Claims : 20

(54) Title of the invention : ELECTRONIC DEVICE FOR REPORTING COMMUNICATION QUALITY MEASUREMENT RESULT AND METHOD OF OPERATING ELECTRONIC DEVICE

(51) International classification	:G01N0033533000, H05B0031000000, B01J0020286000, C02F0003280000, B63C0007260000	(71)Name of Applicant : <b>1)SAMSUNG ELECTRONICS CO., LTD.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2019-0039794	(72)Name of Inventor : <b>1)Junsuk KIM</b>
(32) Priority Date	:04/04/2019	<b>2)Sangho LEE</b>
(33) Name of priority country	:Republic of Korea	<b>3)Jangbok LEE</b>
(86) International Application No	:NA	<b>4)Wonsuk CHUNG</b>
Filing Date	:NA	<b>5)Sohmann KIM</b>
(87) International Publication No	: NA	<b>6)Byunggil LEE</b>
(61) Patent of Addition to Application Number	:NA	<b>7)Seonmi KIM</b>
Filing Date	:NA	<b>8)Jongmin BAIK</b>
(62) Divisional to Application Number	:NA	<b>9)Kyunghoon LEE</b>
Filing Date	:NA	<b>10)Jookwan LEE</b>
		<b>11)Suyoung PARK</b>
		<b>12)Sunmin HWANG</b>

(57) Abstract :

An electronic device includes a communication processor including a first communication circuitry , a second communication circuitry , and a temperature measurement sensor. The electronic device further includes an application processor that receives information via the second communication circuitry and determines whether to request the communication processor change modes. The communication processor receives a signal to change modes, release an RRC connection, and control the second communication circuitry to enter a sleep state.



No. of Pages : 184 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014014872 A

(19) INDIA

(22) Date of filing of Application :03/04/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AUTOMOTIVE EXHAUST AFTERTREATMENT SYSTEM WITH FLASH-BOIL DOSER

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) <b>Name of Applicant :</b> <b>1)FAURECIA EMISSIONS CONTROL TECHNOLOGIES, USA, LLC</b> Address of Applicant :950 West 450 South, Columbus, IN 47201, USA U.S.A.
(31) Priority Document No	:16/376,683	(72) <b>Name of Inventor :</b>
(32) Priority Date	:05/04/2019	<b>1)Kinnaird, Edward C.</b>
(33) Name of priority country	:U.S.A.	<b>2)Rohde, John</b>
(86) International Application No	:NA	<b>3)Parrish, Tony R.</b>
Filing Date	:NA	<b>4)Shinde, Atul</b>
(87) International Publication No	: NA	<b>5)Gandikota, Madhuri</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An exhaust aftertreatment system for use with over-the-road vehicle is disclosed. The exhaust aftertreatment system includes a reducing agent mixer with a mixing can and a flash-boil doser configured to inject heated and pressurized reducing agent into the mixing can for distribution throughout exhaust gases passed through the mixing can.



No. of Pages : 36 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202014015101 A

(19) INDIA

(22) Date of filing of Application :06/04/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMALL-SIZE, MOVABLE WORKSTATION

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000	(71) <b>Name of Applicant :</b> <b>1)UNIFOR S.p.A.</b> Address of Applicant :Via Isonzo, 1, I-22078 Turate, COMO, Italy Italy
(31) Priority Document No	:102019000005382	(72) <b>Name of Inventor :</b>
(32) Priority Date	:08/04/2019	<b>1)MATURO Marco</b>
(33) Name of priority country	:Italy	<b>2)ROSCINI Alessio</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 :

A movable workstation (1) comprising at least one work plane (10); a base assembly (20), said work plane (10) being supported by said base assembly (20), said base assembly (20) comprising wheels (31) for resting said movable work station (1) on a floor (100) and for moving said workstation (1) along said floor (100); wherein said base assembly (20) comprises: a support structure (21) comprising a bearing structure (30) adapted to be rested on the floor (100) and a upright structure (40) connected to, and interposed between, said rest structure (30) and said at least one work plane (10); at least one container (25) supported to said base assembly (20); and wherein at least one of the at least one work plane (10) is constrained to said upright structure (40) in a translatable manner with respect to said base assembly (20) according to one plane parallel to said at least one of the at least one work plane (10).



No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017002378 A

(19) INDIA

(22) Date of filing of Application :20/01/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : UE CONTROLLED HANDLING OF THE SECURITY POLICY FOR USER PLANE PROTECTION IN 5G SYSTEMS

(51) International classification	:H04W 12/10, H04W 8/22, H04L 29/06	(71)Name of Applicant :
(31) Priority Document No	:62/653794	<b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b>
(32) Priority Date	:06/04/2018	Address of Applicant :164 83 Stockholm Sweden
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/EP2019/058622	<b>1)BEN HENDA, Noamen</b>
Filing Date	:05/04/2019	<b>2)SCHLIWA-BERTLING, Paul</b>
(87) International Publication No	:WO/2019/193147	<b>3)HEDMAN, Peter</b>
(61) Patent of Addition to Application Number	:NA	<b>4)WIFVESSON, Monica</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method to operate a UE for handling security policy for user plane protection of communications in a communications system is provided. The method includes transmitting a packet data unit (PDU) session establishment request network access stratum (NAS) message toward an Access and Mobility Management Function (AMF) to establish a PDU session. The 5 method further includes receiving an access network (AN) specific resource setup message indicating whether the UE is to activate integrity protection for data radio bearers (DRBs) serving the PDU session.



No. of Pages : 55 No. of Claims : 16

(54) Title of the invention : APPARATUS AND A METHOD FOR THE APPLICATION OF A FLUID MATERIAL TO A GARMENT

(51) International classification	:B05C 17/005, A41D 1/10, B05C 17/015	(71)Name of Applicant :
(31) Priority Document No	:1805759.6	<b>1)SUPERCREESE LIMITED</b>
(32) Priority Date	:06/04/2018	Address of Applicant :The Moorings, Waterside Business Park
(33) Name of priority country	:U.K.	Waterside Road Stourton Leeds Yorkshire LS10 1DG U.K.
(86) International Application No	:PCT/GB2019/050980	(72)Name of Inventor :
Filing Date	:04/04/2019	<b>1)HOULBROOK, Kenneth</b>
(87) International Publication No	:WO/2019/193345	<b>2)CARTER, Shaun</b>
(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 apparatus and a method for the application of a ribbon of fluid material (15) along one or more garment crease lines (8) by relative movement between one or more cartridges (10) which include a reservoir (14) in which the fluid material is provided, and the garment, said one or more cartridges including a dispensing aperture (123) in connection with the reservoir and through which the fluid material is dispensed. Movement means (16) are provided in the one or more cartridges to encourage the fluid material in the cartridge to move towards the dispensing aperture and a pressurised fluid supply is connected to the one or more cartridges to selectively provide pressurised fluid to the movement means and hand operated user actuatable control means (32) are provided to allow the selective provision of the pressurised fluid. The provision of hand operation of the user actuatable control means allows the apparatus to be significantly more compact. Preferably the operation of the user actuatable control means and the movement of the one or more cartridges with respect to the one or more crease lines to dispense the fluid material can be achieved simultaneously by the same hand of the user.



No. of Pages : 18 No. of Claims : 41

(54) Title of the invention : LAYERED BLANK FOR HOT STAMPING, METHOD FOR MANUFACTURING LAYERED HOT STAMPING MOLDED BODY, AND LAYERED HOT STAMPING MOLDED BODY

(51) International classification :B21D 22/20, B23K 11/00, B23K 11/16, B32B 15/01

(31) Priority Document No :2018-074025

(32) Priority Date :06/04/2018

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2019/015180  
Filing Date :05/04/2019

(87) International Publication No :WO 2019/194308

(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)FUJITA, Soshi**  
**2)SUZUKI, Yuki**  
**3)FUDA, Masahiro**  
**4)MAKI, Jun**  
**5)IRIKAWA, Hideaki**  
**6)NAKATA, Masahiro**

(57) Abstract :

[Problem] To solve a problem related to the difference in temperature increase speed between a layered part and a sheet part, and improving post-hot-stamping plating corrosion resistance. [Solution] A layered blank for hot stamping, the blank comprising a first steel sheet and at least one second steel sheet that is connected to the surface of the first steel sheet by welding points and has a smaller area than the first steel sheet. The first steel sheet is a plated steel sheet comprising an aluminum plating layer on both sides of the first steel sheet, and the second steel sheet is a plated steel sheet comprising an aluminum plating layer on both sides of the second steel sheet. W1 (g/m<sup>2</sup>) is the average amount of aluminum plating layer deposited on both sides of the first steel sheet. W2 (g/m<sup>2</sup>) is the amount of aluminum plating layer deposited on the side of the second steel sheet that does not contact the first steel sheet. W1 and W2 are both within a range of 20 g/m<sup>2</sup> to 120 g/m<sup>2</sup>, inclusive, and satisfy the relationships set forth in formulas (1) and (2).

No. of Pages : 55 No. of Claims : 15

(54) Title of the invention : DEVICE AND METHOD FOR MEASURING A FILTER CAKE THICKNESS

(51) International classification	:B01D 33/067, B01D 33/073, B01D 33/09, B01D 33/80	(71)Name of Applicant : <b>1)BHS-SONTHOFEN GMBH</b> Address of Applicant :An der Eisenschmelze 47 87527 Sonthofen Germany
(31) Priority Document No	:10 2018 205 236.0	(72)Name of Inventor :
(32) Priority Date	:06/04/2018	<b>1)SCH,,FER, Martin</b>
(33) Name of priority country	:Germany	<b>2)STEIDL, Detlef</b>
(86) International Application No	:PCT/EP2019/058285	<b>3)SSS, Wolfgang</b>
Filing Date	:02/04/2019	
(87) International Publication No	:WO 2019/193002	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

A rotary pressure filter (10), comprising a filter drum (30) and a housing (22), characterized in that a sensor (12) is attached to the housing (22), which sensor emits light (14) through a light-permeable section (16) of the housing (22) in the direction of a filter cake (28) and receives light (14a) reflected from the filter cake (28) through the light-permeable section (16) of the housing (22), wherein a processing unit compares properties of the emitted light (14) with those of the received light (14a) and determines an absolute thickness of the filter cake (28) and/or a change in the thickness of the filter cake (28) over a pre-determined time. The invention further relates to a corresponding method.

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

(54) Title of the invention : ELECTROGALVANIZED STEEL SHEET

(51) International classification	:C25D 5/48, C25D 5/26
(31) Priority Document No	:2018-071944
(32) Priority Date	:03/04/2018
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2019/014830
Filing Date	:03/04/2019
(87) International Publication No	:WO 2019/194229
(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)FUTABA Takashi****2)ISHIZUKA Kiyokazu****3)SHIBAO Fumio****4)UESUGI Yukihiro****5)KAWANISHI Yoshihiro****6)KIKUCHI Ikuo****7)SHINDO Hidetoshi****8)TANAKA Yuki****9)URAMOTO Hiroaki****10)KATSUMARU Keita**

(57) Abstract :

This electrogalvanized steel sheet is provided with a steel sheet, and an electrogalvanization layer which is positioned on at least one surface of the steel sheet and has a hairline extending in a predetermined direction on the surface. The electrogalvanization layer has a microscopically rough part having a three-dimensional average surface roughness  $S_a$  ( $1 \mu\text{m}$ ) h of more than 200 nm and no more than 2000 nm, and a microscopically smooth part having a three-dimensional average surface roughness  $S_a$  ( $1 \mu\text{m}$ ) s of more than 5 nm and no more than 200 nm. In the electrogalvanization layer, the three-dimensional average surface roughness  $S_a$  ( $50 \mu\text{m}$ ) is continuously measured, the ratio R50 of the  $S_a$  ( $50 \mu\text{m}$ ) in adjacent regions formed by two adjacent regions is calculated, and the ratio of the number of adjacent regions A is 30% or greater, the adjacent regions A being adjacent regions in which the R50 is less than 0.667 or at least 1.500.

No. of Pages : 54 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017032628 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : DEVICE AND METHOD FOR SENSING WEAR OF A SEPARATING ELEMENT

(51) International classification	:B01D 33/067, B01D 33/073, B01D 33/09, B01D 33/80	(71) <b>Name of Applicant :</b> <b>1)BHS-SONTHOFEN GMBH</b> Address of Applicant :An der Eisenschmelze 47 87527 Sonthofen Germany
(31) Priority Document No	:10 2018 205 237.9	(72) <b>Name of Inventor :</b>
(32) Priority Date	:06/04/2018	<b>1)KIENLE, Bernhard</b>
(33) Name of priority country	:Germany	<b>2)HASSLER, Frieder</b>
(86) International Application No	:PCT/EP2019/058283	<b>3)STEIDL, Detlef</b>
Filing Date	:02/04/2019	<b>4)SSS, Wolfgang</b>
(87) International Publication No	:WO 2019/193001	
(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 rotary pressure filter (110) comprising a filter drum, a housing (112) and at least one separating element (26) which divides a process chamber in a gas-tight manner into a plurality of process sections, characterised in that on the side of at least one separating element (26) facing the housing (112) there is a sensor (116) which comprises the following: a coil (118) and a rod (120) which is arranged inside the coil (118), wherein the rod (120) is designed to be displaced in the coil (118) on the basis of a change in the distance of the separating element (26) from the sensor (116). The invention further relates to a method for sensing wear of a separating element (26) of a rotary pressure filter (110).

No. of Pages : 17 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017032899 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR PREPARING A BOUILLON TABLET

(51) International classification :A23L 23/10, A23L 33/16, A23P 10/20, A23P 10/25, A23P 10/28

(31) Priority Document No :18166013.5

(32) Priority Date :06/04/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/058188  
Filing Date :01/04/2019

(87) International Publication No :WO 2019/192964

(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)SOCIETE DES PRODUITS NESTLE S.A.**

Address of Applicant :Entre-deux-Villes 1800 Vevey  
Switzerland

(72)Name of Inventor :

**1)GADDIPATI, Sanyasi**

**2)PERDANA, Jimmy**

**3)KIM, Youngbin**

**4)BOBE, Ulrich**

**5)SCHROEDER, Volker**

**6)KEHLENBECK, Volker**

**7)BOZON, Annabel**

(57) Abstract :

The present invention relates to bouillon tablets, in particular to a process for preparing a bouillon tablet. The process comprises a co-processed salt-bran mass and mixing said co-processed salt-bran mass with at least one further ingredient selected from the group consisting of salt, sugar, MSG, flavourings, fillers, oil, fat, or any combination thereof to result in a dry mass and pressing the dry mass into a tablet.

No. of Pages : 20 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017032900 A

(19) INDIA

(22) Date of filing of Application :31/07/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR PREPARING A BOUILLON TABLET

(51) International classification	:A23L 23/10, A23L 27/40, A23L 33/16, A23P 10/20, A23P 10/25	(71)Name of Applicant : <b>1)SOCIETE DES PRODUITS NESTLE S.A.</b> Address of Applicant :Entre-deux-Villes 1800 Vevey Switzerland
(31) Priority Document No	:18166011.9	(72)Name of Inventor :
(32) Priority Date	:06/04/2018	<b>1)BOBE, Ulrich</b>
(33) Name of priority country	:EPO	<b>2)SCHROEDER, Volker</b>
(86) International Application No	:PCT/EP2019/058183	<b>3)GADDIPATI, Sanyasi</b>
Filing Date	:01/04/2019	<b>4)PERDANA, Jimmy</b>
(87) International Publication No	:WO 2019/192959	<b>5)KIM, Youngbin</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KEHLENBECK, Volker</b>
Filing Date	:NA	<b>7)BOZON, Annabel</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to bouillon tablets, in particular to a process for preparing a bouillon tablet. The process comprises a co-processed salt-fiber mass and mixing said co- processed salt-fiber mass with at least one further ingredient selected from the group consisting of salt, sugar, MSG, flavourings, fillers, oil, fat, or any combination thereof to result in a dry mass and pressing the dry mass into a tablet.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017033081 A

(19) INDIA

(22) Date of filing of Application :01/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR PREPARING A BOUILLON TABLET

(51) International classification :A23P 10/20, A23P 10/25, A23P 10/28, A23P 30/10, A23L 29/00

(31) Priority Document No :18166019.2

(32) Priority Date :06/04/2018

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2019/058185  
Filing Date :01/04/2019

(87) International Publication No :WO 2019/192961

(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)SOCIETE DES PRODUITS NESTLE S.A.**

Address of Applicant :Entre-deux-Villes 1800 Vevey  
Switzerland

(72)Name of Inventor :

**1)BOBE, Ulrich**

**2)GADDIPATI, Sanyasi**

**3)PERDANA, Jimmy**

**4)KIM, Youngbin**

**5)SCHROEDER, Volker**

(57) Abstract :

The present invention relates to bouillon tablets, in particular to a process for preparing a bouillon tablet. The process comprises a co-processed salt-starch mass and mixing said co- processed salt-starch mass with at least one further ingredient selected from the group consisting of salt, sugar, MSG, flavourings, fillers, oil, fat, or any combination thereof to result in a dry mass and pressing the dry mass into a tablet.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017033082 A

(19) INDIA

(22) Date of filing of Application :01/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : PROCESS FOR PREPARING A BOUILLON TABLET

(51) International classification :A23L 7/10, A23L 23/10, A23L 27/40, A23L 33/21, A23P 10/20  
(31) Priority Document No :18166021.8  
(32) Priority Date :06/04/2018  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2019/058192  
Filing Date :01/04/2019  
(87) International Publication No :WO 2019/192965  
(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)SOCIETE DES PRODUITS NESTLE S.A.**

Address of Applicant :Entre-deux-Villes 1800 Vevey  
Switzerland

(72)Name of Inventor :

**1)GADDIPATI, Sanyasi**

**2)PERDANA, Jimmy**

**3)KIM, Youngbin**

**4)SCHROEDER, Volker**

**5)BOBE, Ulrich**

**6)KEHLENBECK, Volker**

**7)BOZON, Annabel**

(57) Abstract :

The present invention relates to bouillon tablets, in particular to a process for preparing a bouillon tablet. The process comprises a co-processed salt-starch-fiber mass and mixing said co-processed salt-starch-fiber mass with at least one further ingredient selected from the group consisting of salt, sugar, MSG, flavourings, fillers, oil, fat, or any combination thereof to result in a dry mass and pressing the dry mass into a tablet.

No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017033617 A

(19) INDIA

(22) Date of filing of Application :06/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : ELECTRONIC DEVICE FOR PROVIDING INFORMATION REGARDING EXERCISE STATE BASED ON METABOLITE INFORMATION AND METHOD THEREOF

(51) International classification :A61B 5/00, A61B 5/11, A61B 5/024, A61B 5/145  
(31) Priority Document No :10-2018-0037903  
(32) Priority Date :02/04/2018  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2019/003786  
Filing Date :01/04/2019  
(87) International Publication No :WO 2019/194491  
(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)KIM, Minji**

**2)SEO, Hyejung**

**3)LEE, Seunggoo**

**4)JEON, Taehan**

(57) Abstract :

An electronic device for providing exercise information and a method therefor are provided. The electronic device includes a first sensor module, a second sensor module, at least one output device, and at least one processor. The at least one processor is configured to detect an event relating to start of an exercise state, obtain motion information corresponding to the exercise state using the first sensor module, obtain metabolite information of a user using the second sensor module, and provide information regarding the exercise state to the user through the at least one output device, based on whether the metabolite information satisfies a specified condition.

No. of Pages : 25 No. of Claims : 15

(54) Title of the invention : METHOD FOR CONSTRUCTING LOGGED MEASUREMENT ENTRY AND DEVICE SUPPORTING THE SAME

(51) International classification :H04W 24/10, H04W 24/02  
(31) Priority Document No :10-2018-0038329  
(32) Priority Date :02/04/2018  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2019/003835  
Filing Date :02/04/2019  
(87) International Publication No :WO 2019/194518  
(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 ELECTRONICS INC.**  
Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu  
Seoul 07336 Republic of Korea  
(72)**Name of Inventor :**  
**1)KIM, Sangwon**

(57) Abstract :

Provided are a method of constructing logged measurement entry and a device supporting the method. According to one embodiment of the present invention, the method may comprise: receiving a logged measurement configuration from a network; performing measurement logging based on the received logged measurement configuration; and transmitting the logged measurement to the network, wherein when the UE is in any cell selection state, the logged measurement includes indicator indicating that there is no suitable cell or no acceptable cell with available measurement results.

No. of Pages : 32 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017036901 A

(19) INDIA

(22) Date of filing of Application :27/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD FOR DETERMINING AN ANALYTE, AND ANALYSIS SYSTEM

(51) International classification :G01N 35/00  
(31) Priority Document No :18166014.3  
(32) Priority Date :06/04/2018  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2019/058373  
Filing Date :03/04/2019  
(87) International Publication No :WO 2019/193034  
(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)BOEHRINGER INGELHEIM VETMEDICA GMBH**  
Address of Applicant :Binger Strae 173 55216 Ingelheim am Rhein Germany  
(72)Name of Inventor :  
**1)GRIESSNER, Matthias**

(57) Abstract :

A sample is measured using a cartridge from a batch comprising a plurality of cartridges of the same type. The measurement results measured in the process are evaluated, wherein, in order to evaluate the measurement results, reference results are used in addition, which reference results were measured previously, separately, during measurements of reference samples, using a plurality of cartridges of the same batch. An analyte of the sample is determined from the measurement results. During the evaluation, the reference results and/or measurement results are preferably normalised.

No. of Pages : 83 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202017037298 A

(19) INDIA

(22) Date of filing of Application :29/08/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : EXTENDED RANDOM ACCESS PREAMBLE IDENTIFIER FOR ENHANCED RANDOM ACCESS CHANNEL

(51) International classification :H04W 74/08  
(31) Priority Document No :62/653411  
(32) Priority Date :05/04/2018  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2019/052784  
Filing Date :04/04/2019  
(87) International Publication No :WO 2019/193548  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)**  
Address of Applicant :164 83 Stockholm Sweden  
(72)Name of Inventor :  
**1)H-GLUND, Andreas**  
**2)RATILAINEN, Antti**  
**3)LIBERG, Olof**  
**4)SUI, Yutao**  
**5)YAVUZ, Emre**

(57) Abstract :

A method is performed by a network node. The method comprises determining to use an extended random access preamble identifier, RAPID, for a random access procedure with a wireless device. The method further comprises transmitting a medium access control, MAC, protocol data unit, PDU. The MAC PDU comprises a header and one or more random access responses, RARs. Each RAR is associated with a corresponding subheader within the header of the MAC PDU. The random access procedure is associated with a first RAR of the one or more RARs and the extended RAPID for the random access procedure is indicated by a combination of one or more bits in the first RAR and one or more bits in the subheader that corresponds to the first RAR.

No. of Pages : 40 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821024614 A

(19) INDIA

(22) Date of filing of Application :02/01/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A RADIAL OPPOSED PISTON RECIPROCATING INTERNAL COMBUSTION ENGINE

(51) International classification :F02B0075220000,  
F02B0075280000,  
F02B0075180000,  
F01L0001020000,  
F02F0001240000

(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)VIPULKUMAR D. PATEL**

Address of Applicant :111/SITARAM NAGAR, ROAD NO.-  
6, ERU CHAR RASTA, TA - JALALPOR, DIST NAVSARI-  
PIN-396 450, GUJARAT, Gujarat India

(72)Name of Inventor :

**1)VIPULKUMAR D. PATEL**

(57) Abstract :

**ABSTRACT A RADIAL OPPOSED PISTON RECIPROCATING INTERNAL COMBUSTION ENGINE** The present invention relates to an internal combustion (IC) engine (100) that includes a piston assembly (120), a pair of cylinder head assembly (134), a crankshaft assembly (140), a pair of connecting arms (150), at least one pair of connecting rods (160), a cylinder head assembly (134) that contains a pair of valve timing mechanisms (170). The piston assembly (122) in configuration with a cylinder defines Intake, exhaust, expansion and compression chambers. The IC engine of the present invention has increased power and power to weight ratio and reduces number of parts and cost as compared to that of the conventional IC engines. FIG. 1 for publication

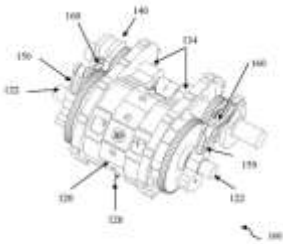


FIG. 1

No. of Pages : 33 No. of Claims : 12



(54) Title of the invention : A glittering cementitious binder composition and a method of preparing the same.

(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)Aditya Birla Science and Technology Company Private Limited**

Address of Applicant :Plot No. 1 & 1-A/1, MIDC Taloja, Taluka Panvel, Dist. Raigad- 410208, Navi Mumbai, Maharashtra, India Maharashtra India

(72)Name of Inventor :

**1)Prakash Chandra Mathur**

**2)Santanu Mithia**

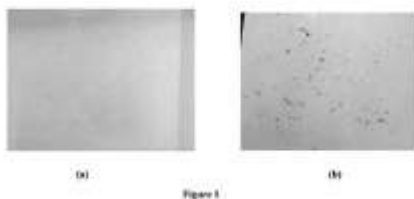
**3)Nithya Nair**

**4)Amit Chatterjee**

**5)Shrijeet Mishra**

(57) Abstract :

ABSTRACT A glittering cementitious binder composition and a method of preparing the same The present invention relates to a glittering cementitious binder composition comprising cement in a range of 98 to 99.99% by weight of the composition and a glittering agent in a range of 0.1 to 2% by weight of the composition. The invention also relates to a method of preparing the said glittering cementitious binder composition. The invention further relates to a glittering putty comprising cement in a range of 15 to 25% by weight of the putty, a glittering agent in a range of 0.1 to 2% by weight of the putty, copolymer of vinyl acetate and ethylene or any water soluble solid emulsion polymer in a range of 1 to 20% by weight of the putty, viscosity modifying agents in a range of 0.2 to 5% by weight of the putty and inert filler in a range of 60 to 85% by weight of the putty.



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

(54) Title of the invention : CLUTCH PRIMING SYSTEM AND METHOD

(51) International classification :F16F0015123000,  
F16H0061060000,  
H02N0002000000,  
F16H0059420000,  
F04B0027100000

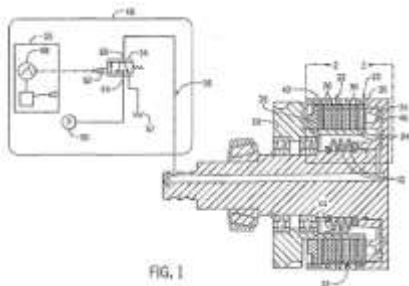
(31) Priority Document No :15/711200  
(32) Priority Date :21/09/2017  
(33) Name of priority country :U.S.A.  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)DEERE & COMPANY**  
Address of Applicant :ONE JOHN DEERE PLACE,  
MOLINE, ILLINOIS, U.S.A. PIN CODE-61265 U.S.A.

(72)Name of Inventor :  
**1)CLAYTON G. JANASEK**

(57) Abstract :

A priming system and method includes an actuator effecting engagement of a fractional element to couple input and output elements to transfer a torque. A control system initiates actuation of the fractional element through the actuator when a speed of the fractional element is below a priming threshold speed. The frictional element is primed to prepare the frictional element to transfer the torque from the input element to the output element, without delivering the torque to the output element. The frictional element is held in the primed state when the speed is below the priming threshold speed. The actuator completes actuation of the frictional element when the speed reaches the shift point, engaging the frictional element to deliver the torque to the output element.



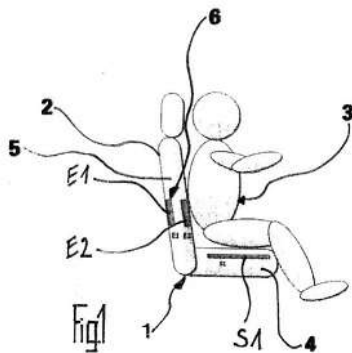
No. of Pages : 26 No. of Claims : 20

(54) Title of the invention : SEAT OCCUPANCY DETECTION AND PASSENGER CLASSIFICATION DEVICE FOR VEHICLE SEATS

(51) International classification	:B60N0002000000, B60R0021015000, B60N0002280000, B60R0021010000, B60N0002015000	(71)Name of Applicant : <b>1)Paragon GmbH &amp; Co. KGaA</b> Address of Applicant :ARTEGASTRASSE 1, 33129 DELBRUECK, GERMANY Germany
(31) Priority Document No	:102017009004.1	(72)Name of Inventor :
(32) Priority Date	:27/09/2017	<b>1)Ralf Moenkemoeller</b>
(33) Name of priority country	:Germany	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication 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 seat occupancy detection and passenger classification device for vehicle seats (2) having a conductive surface element (S1) which is arranged in insulated fashion in a seat part (4) of the vehicle seat (2) roughly parallel to the seat squab thereof and which can be exposed to a measuring signal, and a sensor arrangement (E1, E2) which is arranged in a backrest part (5) of the vehicle seat (2) and by means of which the measuring signal applied to the conductive surface element (S1) on the seat part side can be detected. In order to ensure that by means of the seat occupancy detection and passenger classification device (1) more informative and accurate measuring data are supplied, it is proposed that the sensor arrangement (E1, E2) on the backrest side has at least two receiving electrodes (E1, E2) which are arranged in the thickness direction of the backrest part (5) at a different distance from the supporting surface of the backrest part (5) in the same vertical portion of the backrest part (5) .



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

(54) Title of the invention : LIGHT GUIDE

(51) International classification :H04N0021450000,  
H05B0037020000,  
G01V0001380000,  
H04N0021470000,  
H04N0021441500

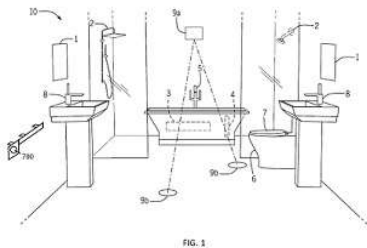
(31) Priority Document No :62/559,199  
(32) Priority Date :15/09/2017  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Kohler Co.**  
Address of Applicant :444 Highland Drive, Kohler, WI 53044,  
U.S.A. U.S.A.

(72)Name of Inventor :  
**1)Rafael A. Rexach**  
**2)Nona J. Beining**  
**3)Alyssa Wilterdink**  
**4)Shawn J. Booth**  
**5)Thomas E. Lilly**  
**6)Douglas J. Diemel, Jr.**  
**7)Leslie Petch**

(57) Abstract :

**ABSTRACT LIGHT GUIDE** An apparatus includes a light source array, a communication interface, and a controller. The light source array includes one or more directional light sources. The communication interface is configured to receive user data from at least one appliance. The user data is indicative of an identity of a user. The controller is configured to analyze the identity of the user and activate one or more directional light sources in response to the identity of the user.



No. of Pages : 151 No. of Claims : 20

(54) Title of the invention : FEEDBACK FOR WATER CONSUMING APPLIANCE

(51) International classification :G16H0010200000,  
H04N0021466000,  
A61M0021000000,  
H04W0072060000,  
H04W0004380000

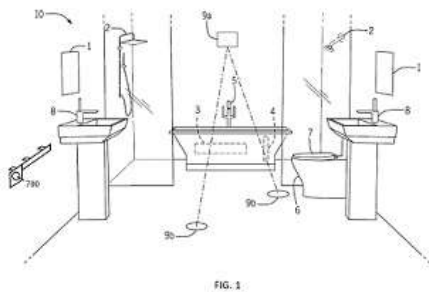
(31) Priority Document No :62/559,199  
(32) Priority Date :15/09/2017  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Kohler Co.**  
Address of Applicant :444 Highland Drive, Kohler, WI 53044  
U.S.A.

(72)Name of Inventor :  
**1)Rafael A. Rexach**  
**2)Nona J. Beining**  
**3)Alyssa Wilterdink**  
**4)Shawn J. Booth**  
**5)Thomas E. Lilly**  
**6)Douglas J. Diemel, Jr.**  
**7)Leslie Petch**

(57) Abstract :

A communication system provides feedback data for at least one water consuming device. The communication system includes a data collection interface, a controller, and an output interface. The data collection interface is configured to receive user data from at least one collection device. The controller is configured to perform an analysis of the user data from the at least one collection device. The output interface is configured to provide feedback data based on the analysis of the user data to a water consuming device.



No. of Pages : 152 No. of Claims : 20

(54) Title of the invention : FOLDABLE DISPLAY DESIGN

(51) International classification :G02B0027010000,  
H01L0027120000,  
G06F0003044000,  
G06F0003041000,  
G09G0003320000

(31) Priority Document No :15/803,830

(32) Priority Date :05/11/2017

(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)InnoLux Corporation**  
Address of Applicant :No. 160 Kesuyue Rd., Jhu-Nan Site,  
Hsinchu Science Park, Jhu-Nan, Miao-Li County, (Postal Code:  
350) Taiwan

(72)Name of Inventor :  
**1)Yuan-Lin WU**

(57) Abstract :

A display device comprises a substrate having a foldable first region and a second region adjacent to the foldable first region, wherein a folding axis overlaps the foldable first region. The display device further comprises a first transistor overlapping the foldable first region and having a first channel region with a first dimension along a first direction that is substantially perpendicular to the folding axis. The display device further comprises a second transistor overlapping the second region and having a second channel region with a second dimension along the first direction, wherein the first dimension is less than the second dimension.

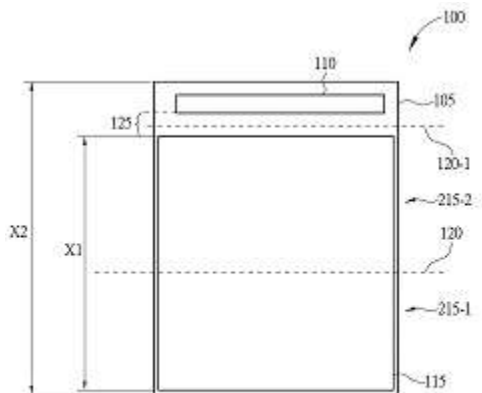


FIG. 1

No. of Pages : 46 No. of Claims : 20

(54) Title of the invention : SIGNAL DETECTION BY MEANS OF SUPPLEMENTAL INFORMATION

(51) International classification :H04W0072080000,  
H04W0084180000,  
H04B0001100000,  
A61B0005000000,  
G05B0015020000

(31) Priority Document No :256677  
(32) Priority Date :31/12/2017  
(33) Name of priority country :Israel  
(86) International Application No :NA  
Filing Date :NA  
(87) 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)Elta Systems Ltd.**  
Address of Applicant :100 Yitzchak Hanassi Blvd., P.O.B.  
330, Ashdod 7710201, Israel. Israel

(72)Name of Inventor :  
**1)FIREAIZEN, Moshe**  
**2)NAHAMAN, Moshe**

(57) Abstract :

A method of communicating information from a sensor concerning a received signal, comprising: responsive to receiving by at least one detecting sensor, during a defined time interval, data indicative of an entire data of a frequency band received by it during the defined time interval, comprising at least one signal emitted at least one emitter, and to detecting of the emitted signal by the at least one detecting sensor, sending from the sensor assistance information corresponding to the detected emitted signal during the defined time interval, to at least one non-detecting sensor. This information can be utilized by the non-detecting sensor to perform an action with respect to data indicative of an entire data of the frequency band received by the non-detecting sensor during a corresponding defined time interval, the action corresponding to at least one emitted signal received by the non-detecting sensor during the corresponding defined time interval.

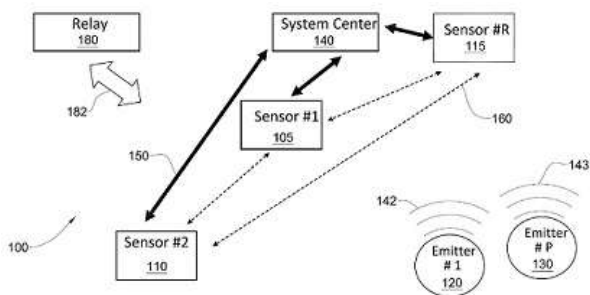


Fig. 1

No. of Pages : 111 No. of Claims : 50

(54) Title of the invention : WINDOW REGULATOR

(51) International classification :E05F0011480000,  
G11C0005040000,  
H05H0001420000,  
F04C0023000000,  
H02K0001140000

(31) Priority Document No :2018-005499

(32) Priority Date :17/01/2018

(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

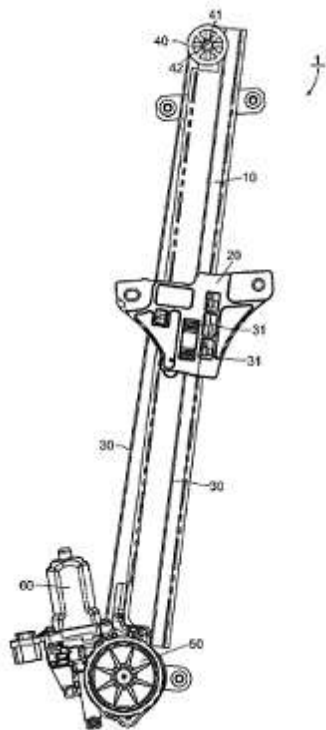
(71)Name of Applicant :  
**1)SHIROKI CORPORATION**  
Address of Applicant :2, Kirihara-cho, Fujisawa-shi,  
Kanagawa, 252-0811 Japan

(72)Name of Inventor :  
**1)BABA, Masanao**  
**2)OTA, Takahiko**

(57) Abstract :

A window regulator is obtained which has high durability against stress from a wire of a pulley or a wire guide member and can prevent warpage or sink caused by contraction even when the pulley or wire guide member is resin-molded. A front-side rib group extending in a diameter direction centered on a rotating shaft part is formed on a front side seen from the direction of the rotating shaft part of a body part. A back-side rib group extending in a diameter direction centered on the rotating shaft part is formed on a back side seen from the direction of the rotating shaft part of the body part. The front-side rib group and the back-side rib group have different phases in a circumferential direction centered on the rotating shaft part.

FIG. 1



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



(54) Title of the invention : A PROCESS FOR PREPARING PEPTONE FROM PLANT PART AND A GROWTH MEDIUM OBTAINED THEREFROM

(51) International classification	:H01M0010440000, G11B0017049000, G03G0015080000, A24D0003060000, B65D0006220000	(71)Name of Applicant : <b>1)BHIMRAJ SHANKAR PANCHAMEDHE</b> Address of Applicant :At Kirtapur Post, Ladgaon, Taluka Vaijapur Aurangabad Maharashtra India 423701 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)BHIMRAJ SHANKAR PANCHAMEDHE</b>
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

The present invention relates to a process for preparation of peptone obtained from plant part and a growth medium obtained by employing the peptone. The process comprises providing the plant part, pulverizing and homogenizing, de-fattening, separating, drying to obtain dry powder, mixing the dried powder with a first fluid medium while continuously stirring to obtain a slurry, separating to obtain a filtrate and a supernatant, hydrolysing said supernatant using a hydrolysing agent, incubating, neutralizing the incubate to obtain a solid, drying the solid and pulverizing the solid to obtain a free-flowing powder comprising the peptone. The plant is castor and the plant part is a castor seed. The process of the present invention is simple, economic, and easy to work with and the growth medium of the present invention is highly productive, economic and comprises peptone made from a non-edible plant part or plant.

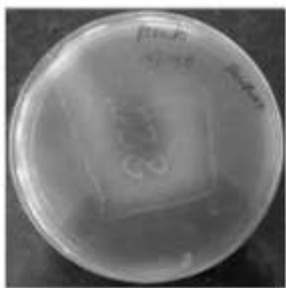


FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013023 A

(19) INDIA

(22) Date of filing of Application :01/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : TOPICAL NIOSOME COMPOSITION COMPRISING TACROLIMUS.

(51) International classification	:A61K0031436000, A61K0009000000, A61K0035740000, C07D0407000000, C07D0235080000	(71)Name of Applicant : <b>1)MORE VRUNAL VISHWASRAO</b> Address of Applicant :SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S COLLEGE OF PHARMACY, P.B.NO.54, GOPALPUR-RANJANI ROAD, GOPALPUR PANDHARPUR, DIST.: SOLAPUR-413304, MAHARASHTRA, INDIA. Maharashtra India <b>2)DR. RONGE BABRUVAHAN PANDURANG</b> <b>3)GILHOTRA RITU M.</b> <b>4)KHULE PRAJAKTA KAILAS</b> <b>5)DR. NITALIKAR M.M.</b> <b>6)DR. GANGWAL AMIT</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)MORE VRUNAL VISHWASRAO</b> <b>2)DR. RONGE BABRUVAHAN PANDURANG</b> <b>3)GILHOTRA RITU M.</b> <b>4)KHULE PRAJAKTA KAILAS</b> <b>5)DR. NITALIKAR M.M.</b> <b>6)DR. GANGWAL AMIT</b>
(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 topical noisome composition comprising Tacrolimus and a process for preparation thereof

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

(54) Title of the invention : A METHOD TO SUPPRESS LEPIDOPTERAN PESTS THROUGH RADIO-GENETIC INHERITED STERILITY TECHNIQUE

(51) International classification :A61L0002080000,  
A01M0017000000,  
C12N0015820000,  
C07K0014325000,  
A61L0002120000

(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)DR. RENU CHOITHRANI**

Address of Applicant :ASSISTANT PROFESSOR,  
DEPARTMENT OF PHYSICS AND ELECTRONICS,  
BARKATULLAH UNIVERSITY, BHOPAL, MADHYA  
PRADESH - 462026, INDIA. Madhya Pradesh India

(72)Name of Inventor :

**1)DR. RENU CHOITHRANI**

(57) Abstract :

The invention is regarding a method and a system which is capable of sterilizing the male lepidopteran pests using gamma radiation so as to create an inherent sterility in the pest harming the agriculture. The apparatus designed can be utilized in confined rooms or in open areas to radiate the eggs, larva or moths so as to reduce the fertility without impacting the competitiveness of the male lepidopteran pests with respect to the wild lepidopteran pests so as to mate competitively with the wild female lepidopteran pests to decrease and to induce inherent sterility. Here in the system the irradiation dose of 100 and 150 Gy is induced to sterilize the male lepidopteran moths so as not to kill or make the male pest less competitive with respect to the wild males but to induce inherent sterility to suppress the production and population of pest so as to secure the agriculture being damaged by pest.

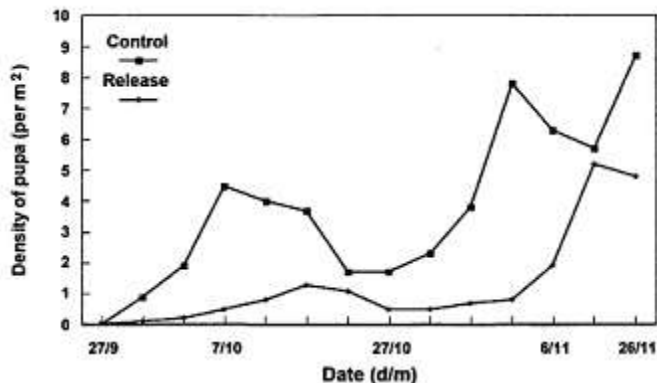


FIGURE - 1: Effect of sterile Male lepidopteran pests on density of pupae for two generations following the release of irradiated (150 Gy) lepidopteran pests.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013036 A

(19) INDIA

(22) Date of filing of Application :01/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SMART PETROL KEY LOCKER SYSTEM OF MOTORCYCLE

(51) International classification	:B60R0025040000, B67D0007220000, G06Q0020340000, G07F0017120000, B60R0025042000	(71)Name of Applicant : <b>1)MR. VIJAY GANGADHAR JADHAV</b> Address of Applicant :AT. POST KHARAB KHANDGAON, TALUKA : MUKHED, NANDED - 431715, MAHARASHTRA, INDIA Maharashtra India <b>2)MR. ABHIJIT DADARAO JADHAV</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MR. VIJAY GANGADHAR JADHAV</b>
(33) Name of priority country	:NA	<b>2)MR. ABHIJIT DADARAO JADHAV</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 :

In existing system we loss petrol key then user face some problem, this drawback overcome in this system another drawback is each and every time insert and remove petrol key so thats why user get confuse in which direction to rotate key for to start flow of petrol fuel. In Smart petrol key locker system of motorcycle to resolve the problem like to avoid accident, reduce human efforts, loss of key, to save petrol from theft, its system showing new key feature in to the motorcycle. Though motorcycle are in running state at that time ,if over the petrol flow then clicking on reset button then start the reserve petrol . In exciting system we have to face the problem of accident in case if we forgot to remove the stand and To face the problem when key loss. Some of the advance features like easy to install, easy to handle with low cost.

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : SYSTEM FOR STACKING AND TRANSFER OF OBJECTS

(51) International classification :B65B0035500000,  
G06F0003048400,  
A47F0001120000,  
B65G0047840000,  
A61B0003032000

(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)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)MAHINDRAKAR, Vinod S**  
**2)KUMAR, Ashish**  
**3)BHADORIYA, Madansingh Upendrasingh**

(57) Abstract :

The present disclosure relates to a system for stacking and transferring of objects from a stacker to a specific position. The system incorporates a magazine (102) to accommodate a plurality of objects (104); a pusher cylinder (106), and a pusher rod (108) configured with the pusher cylinder (106) for pushing the plurality of objects (104) from a first position towards a guide (110); the guide (110) configured to slidably guide the plurality of objects (104) from the first position to the second position leading to a change in orientation of the plurality of objects (104) from a first angle to a second angle; and a gripping means with specially designed arms (502), configured to hold and transfer the plurality of objects (104) between the second position and a third position without change in orientation of the plurality of objects (104) from a first angle to a second angle.

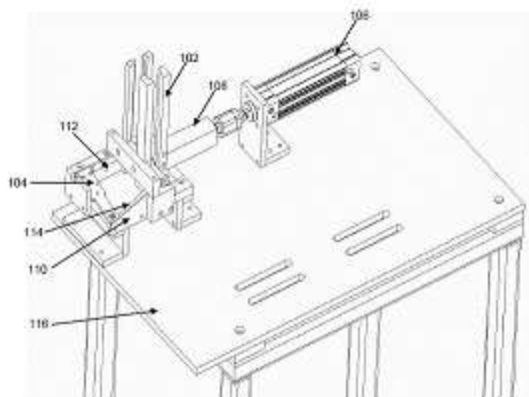


FIG. 1

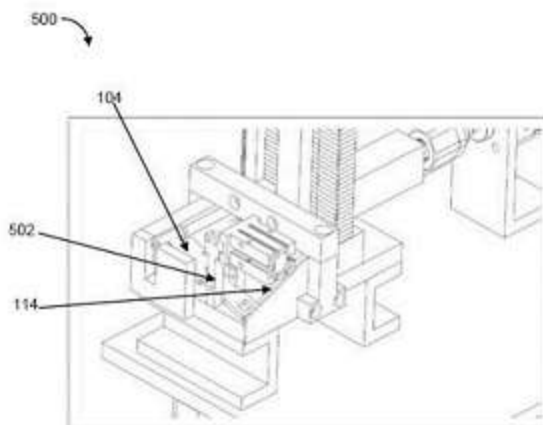


FIG. 5A

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013100 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : STABLE RAPID ORALLY DISSOLVING STRIPS OF AMLODIPINE

(51) International classification	:A61K0031442200, A61K0009200000, A61K0031440000, A61K0047400000, C07D0211700000	(71)Name of Applicant : <b>1)PRATIK MASKE</b> Address of Applicant :TATYASAHEB KORE COLLEGE OF PHARMACY, WARNANAGAR 416113 Maharashtra India <b>2)SHOBRAJ MALAVI</b> <b>3)DR S A TAMBOLI</b> <b>4)SACHIN G LOKAPURE</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)PRATIK MASKE</b>
(33) Name of priority country	:NA	<b>2)SHOBRAJ MALAVI</b>
(86) International Application No	:NA	<b>3)DR S A TAMBOLI</b>
Filing Date	:NA	<b>4)SACHIN G LOKAPURE</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This present invention relates to stable rapid orally dissolving strips of amlodipine or pharmaceutically acceptable salts thereof and the process for its preparation.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013111 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : AIRPLANE ENGINES SCALE TRANSFORMER SWIRL VANES FOR SUPPLYING TURBULENT AIR TO COMBUSTION CHAMBER

(51) International classification :B64C0023000000,  
F02M0025120000,  
F24F0013060000,  
F01C0001063000,  
F02C0006120000

(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)MR. ANWAR WALI GUTTI**  
Address of Applicant :FLAT NO.3, PREMIER  
APARTMENT, BHOIR COLONY, CHINCHWAD, PUNE-411  
033, MAHARASHTRA, INDIA. Maharashtra India

(72)Name of Inventor :  
**1)MR. ANWAR WALI GUTTI**

(57) Abstract :

The invention disclosed is an important component of the airplane engines. The invention solves the problem of turbulence variation adjustment for the incoming air in the air plane for combustion. It consists of a telescopic shaft carrying circular inflatable pipes having expanding inflatable blades. The purpose of the invention is to reduce the speed of the incoming air and create turbulence by wake effect so that the air can be properly mixed with the fuel and undergo combustion. The shaft is an assembly of different size hollow pipes which can slide inside each other in forward and backward direction attached with inflatable pipes through outside with expanding blades at sideways. The incoming air is divided in two streams, out of which one is supplied to the invention to expand and inflate it, after it expands and inflate which depends upon the air speed then the other stream flows over the invention and gets turbulent and fuel is sprayed on it and then undergoes combustion.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013114 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : POWER TRANSMISSION ACTUATORS WITH GRID CONTROLLER ELECTRONICS

(51) International classification	:G06F0001260000, H02J0009060000, H02H0003240000, H01L0023310000, E05B0047020000	(71)Name of Applicant : <b>1)MR. ANWAR WALI GUTTI</b> Address of Applicant :FLAT NO.3, PREMIER APARTMENT, BHOIR COLONY, CHINCHWAD, PUNE-411 033, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)MR. AZHAR WALI GUTTI</b>
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	<b>1)MR. ANWAR WALI GUTTI</b>
(86) International Application No	:NA	<b>2)MR. AZHAR WALI GUTTI</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 :

The invention disclosed is type of electronic actuator which tensions and compresses the grid transmission wires so as to avoid the sagging of the wires during high temperature environment. The invention also helps in reducing the vibration of the wires which increases the life of the wires respectively. Another important part of it is the electronic circuits for high & low voltage spike counter and the power interruption counter respectively. The data from the electronic circuits will help in analyzing data of the no. of times there is rise and drop in the voltage and no. of times there is power cut respectively. This data will be useful to the power generator companies in estimating the loads on the machines like gearbox and generators during the power cut respectively. The lightning counter is another important part which counts the lightnings which are the main reason responsible for the power failures.

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



(54) Title of the invention : AIRCRAFT GYROSCOPES GIMBAL ERROR MINIMIZING MAGNETIC CONTACT SWITCH OPERATED BALL SOCKET FLAPPING DISC

(51) International classification :B64C0017060000,  
E21B0047022000,  
G01C0019380000,  
G01C0025000000,  
G01C0019440000

(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)MR. ANWAR WALI GUTTI**  
Address of Applicant :FLAT NO.3, PREMIER  
APARTMENT, BHOIR COLONY, CHINCHWAD, PUNE-411  
033, MAHARASHTRA, INDIA. Maharashtra India  
**2)MR. AZHAR WALI GUTTI**

(72)Name of Inventor :  
**1)MR. ANWAR WALI GUTTI**  
**2)MR. AZHAR WALI GUTTI**

(57) Abstract :

The invention is a Gyroscope balancing device which is gravity operated. The device is mounted at the base of the gyroscopes which are installed in the aircrafts. The device is for vertical gyroscopes. When the aircraft turns or heads upwards or downwards an error is introduced in the gyroscopes, as the base of the gyroscopes get inclined. In order to reduce this error the inventions has four rectangular compartments in which metallic balls are placed which slide to the other end when the planes inclines in a particular direction and activate a touch switch which magnetizes the magnet at the opposite end which pull a disc mounted on a ball socket joint placed at the center of the four compartments, and on this disc the gyroscope is mounted. As the disc is attracted by a magnet it inclines in that direction which is opposite to the inclination of the aircraft and therefore keeps the gyroscope straight.

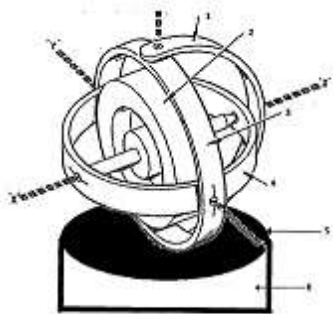


Fig. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013157 A

(19) INDIA

(22) Date of filing of Application :01/04/2019

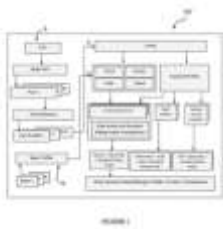
(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD FOR ESTIMATING A PERSONAL STYLE INDEX FOR PERSONALITY AND STYLE ASSESSMENT OF USER

(51) International classification	:A61B0003000000, G09B0007000000, G16H0010200000, A61B0005000000, A61B0003120000	(71) <b>Name of Applicant :</b> <b>1)VEDANSHI SYSTEM PRIVATE LIMITED</b> Address of Applicant :19, Floor GRD, Plot - 156, Brahma Siddhi, S H Tandel Marg, Century Bhavan, Prabhadevi, Mumbai - 400025, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)JADHAV SATISH</b>
(33) Name of priority country	:NA	<b>2)KULKARNI JAYDEEP</b>
(86) International Application No	:NA	<b>3)JADHAV DHANASHREE</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 :

**ABSTRACT METHOD FOR ESTIMATING A PERSONAL STYLE INDEX FOR PERSONALITY AND STYLE ASSESSMENT OF USER** A method for estimating personal style index for personality and style assessment of a user is disclosed. The method includes receiving a plurality of images of a user showing multiple features of the user<sup>TM</sup>s face, body and clothing; creating one or more user part profiles by accessing factors including facial identity, skin type, height, weight and body type; and providing an artificial intelligence-based style rating system designed to function by applying a set of standardized style or fashion rules correlating to the one or more user part profiles for estimating a personal style index score for a real-time captured image of the user. (FIGURE 1)



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

(54) Title of the invention : HELIX LEUKEMIA TRANSPORT TUBE

<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>:A61K0031165000, A61L0033000000, C07C0323410000, A61K0031727000, F16K0017160000</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)<b>Name of Applicant :</b> <b>1)Poonam Punit Jain</b> Address of Applicant :Helix Genetic and Pathology Laboratory, Ground Floor, Shiv Chhaya Chsl, MV Road, Near Andheri Metro Station, Mumbai-400069, Maharashtra, India. Maharashtra India</p> <p>(72)<b>Name of Inventor :</b> <b>1)Poonam Punit Jain</b></p>
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(57) Abstract :

A helix transport tube (106) to yield metaphase chromosomes for karyotyping comprising a sodium heparin (102) coated cylindrical tube (110) with a first opening, a stopper (108) to tightly seal the first opening of the cylindrical tube (110) making it leakproof, a cell culture media (114) comprising bone marrow media that supports the cell in transit, and colchicine (104) as a cell-cycle arresting agent, wherein the sodium heparin prevents the formation of clots while the colchicine arrests spontaneously dividing cells in mitosis while in transit once a sample is added in helix transport tube. <Fig. 2>

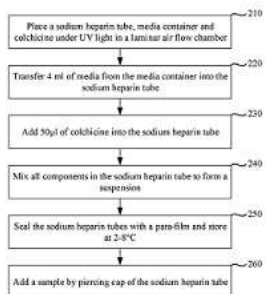


Fig. 2

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013214 A

(19) INDIA

(22) Date of filing of Application :02/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SOLID LIPID NANOPARTICLE OF CEFPODOXIMEPROXETIL

(51) International classification	:A61K0031546000, A61K0009127000, A61K0031424000, C07D0501000000, C12N0015880000	(71)Name of Applicant : <b>1)GUPTA DOLLY</b> Address of Applicant :L.M College of Pharmacy, Post Box 4011, Navrangpura, Ahmedabad- 380009, Gujarat, India Gujarat India
(31) Priority Document No	:NA	<b>2)DR. YAMINI SHAH</b>
(32) Priority Date	:NA	<b>3)DR. DUSHYANT SHAH</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)GUPTA DOLLY</b>
Filing Date	:NA	<b>2)DR. YAMINI SHAH</b>
(87) International Publication No	: NA	<b>3)DR. DUSHYANT SHAH</b>
(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 contemplates solid lipid nanoparticle of Cefpodoxime Proxetil. The present invention also relates process for preparing solid lipid nanoparticle of Cefpodoxime proxetil.

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

(54) Title of the invention : AUTONOMOUS QUADCOPTER WITH COLLISION AVOIDANCE AND MAPPING

(51) International classification	:G05D0001020000, G06K0009000000, G05D0001000000, G06T0007246000, A01B0079000000	(71)Name of Applicant : <b>1)NARAYAN DASHRATH MASTUD</b> Address of Applicant :MANIKNAGAR, SHELGOAN, PARANDA, DIST. OSMANABAD-413505, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)DIPAK BHATU PAWAR</b>
(32) Priority Date	:NA	<b>3)TRUPTI NANDKISHOR PUNPALE</b>
(33) Name of priority country	:NA	<b>4)PRAJAKTA SHRIKRISHNA SHINDE</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)NARAYAN DASHRATH MASTUD</b>
(87) International Publication No	: NA	<b>2)DIPAK BHATU PAWAR</b>
(61) Patent of Addition to Application Number	:NA	<b>3)TRUPTI NANDKISHOR PUNPALE</b>
Filing Date	:NA	<b>4)PRAJAKTA SHRIKRISHNA SHINDE</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An autonomous mobile platform is endowed with a navigational system which must contain multiple functional bricks: perception, localization, path planning and motion control. As soon as such a robot or vehicle moves in a crowded environment, it continuously loops several tasks in real time: sending reference values to motors actuators, calculating its position in respect to a known reference frame and detection of potential obstacles on its path. Thanks to semantic richness provided by images and to a low cost of visual sensors, these tasks often exploit visual cues. Other embedded systems running on these mobile platforms thus demand for an additional integration of high-speed embeddable processing systems capable of treating abundant visual sensorial input in real-time. Moreover, constraints influencing the autonomy of the mobile platform impose low power consumption. This thesis proposes SOPC (System on a Programmable Chip) architectures for efficient embedding of vision-based localization and obstacle detection tasks in a navigational pipeline by making use of the software/hardware co-design methodology. The obtained results are equivalent or better in comparison to state-of-the-art for both EKF-SLAM based visual odometry: regarding the local map size management containing seven-dimensional landmarks and model-based detection-by-identification obstacle detection: algorithmic precision over execution speed metric.

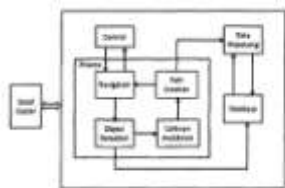


FIG. 1 - Figure 1 depicts the proposed system architecture.

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

(54) Title of the invention : HYBRID CLAY FOR CAPTURING CO2

(51) International classification	:B01J0008180000, B01D0053620000, B01J0020100000, B01J0020340000, B01J0020180000	(71)Name of Applicant : <b>1)Dr. Atindra Dinkerray Shukla</b> Address of Applicant :Block-1, Jankidas Smriti Society-2, Behind Purushottam Park, Santram Deri Road, Nadiad 387002, Gujarat India Gujarat India
(31) Priority Document No	:NA	<b>2)Dr.Manish V Shah</b>
(32) Priority Date	:NA	<b>3)Karan B. Shah</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)Dr. Atindra Dinkerray Shukla</b>
Filing Date	:NA	<b>2)Dr.Manish V Shah</b>
(87) International Publication No	: NA	<b>3)Karan B. Shah</b>
(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 hybrid clays which can be treated with the inorganic salts and used for capturing CO<sub>2</sub>. The method of preparing and characterizing novel hybrid clays is one of the objectives of the invention. The invention, particularly relates to a method of capturing CO<sub>2</sub> by using hybrid clays and an apparatus thereof. Further, the invention also relates to a synthesis of novel hybrid clays which is used for capturing CO<sub>2</sub>. The system for capturing CO<sub>2</sub> by using an apparatus which comprises hybrid clays is also disclosed. In the due course, the capacity and efficiency of capturing CO<sub>2</sub> by hybrid clays will also be improved in.

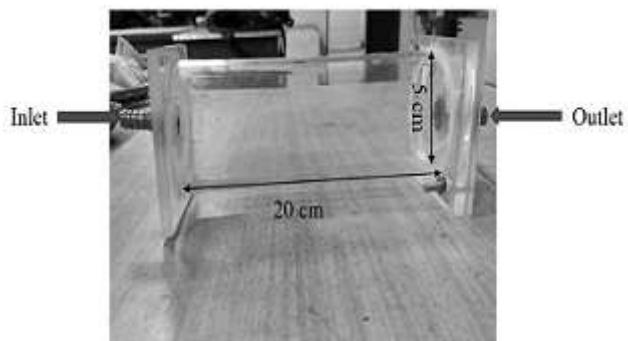


Fig. 1

No. of Pages : 28 No. of Claims : 8

(54) Title of the invention : HYBRID POWER PLANT CONTROL

(51) International classification :H02J0003380000,  
B60W0010080000,  
B60W0020000000,  
F03D0007020000,  
F01K0013020000

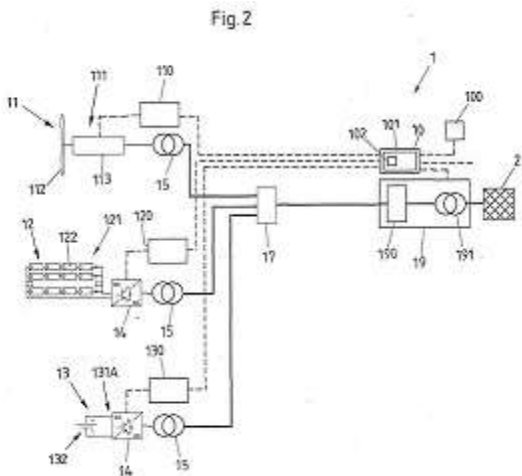
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Suzlon Energy Limited**  
Address of Applicant :Shrimali Society, Near Shri Krishna  
Complex, Navrangpura, Ahmedabad 380 009, Gujarat, India  
Gujarat India

(72)Name of Inventor :  
**1)Bogdan Craciun**  
**2)Pukhraj Singh**

(57) Abstract :

The invention relates to a control system (10) for controlling a hybrid power plant (1; 1<sup>TM</sup>) comprising at least two different types of power plants (11, 12, 13) including at least one renewable-energy power plant (11, 12), wherein the control system (10) comprises a non-interrupting control mode adapted to maintain at least one of the power plants (11, 12, 13) of the hybrid power plant (1; 1<sup>TM</sup>) in an active state and in connection to an electrical grid (2) when the at least one of the power plants (11, 12, 13) of the hybrid power plant (1; 1<sup>TM</sup>) produces no active power or substantially no active power. The invention further relates to a hybrid power plant, to a method for controlling a hybrid power plant and to a computer program product. (Fig. 2)



No. of Pages : 52 No. of Claims : 20

(54) Title of the invention : A SMART IRRIGATION SYSTEM

(51) International classification :F03D0009250000,  
A01G0025160000,  
F03D0009000000,  
F04D0013060000,  
F03D0009280000

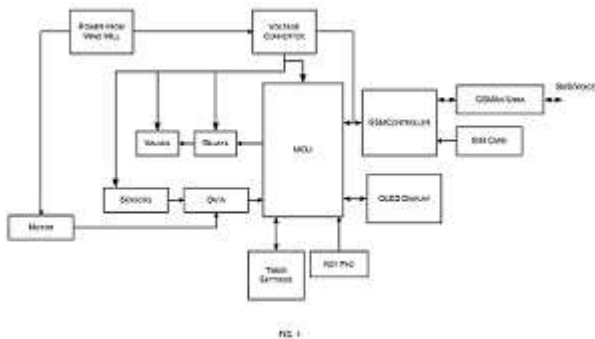
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)SHAIKH, Shoaib**  
**2)KAMANE, Harshala**  
**3)BISHNOI, Bhanwar Lal**

(57) Abstract :

The present disclosure provides an Irrigation System using Wind energy with the help of a microcontroller. The system can be implemented in agriculture and farming sectors. For communication, a GSM module can be used to convey a current state of moisture in the soil to a user through text message or call or through a mobile application, based on which the user can control a water-pump to pump water into the soil. If the moisture content is below a threshold, the water pump can automatically activate. The system is driven by wind energy, an advantage being that wind is a renewable energy and is available in plenty. The energy generated from wind can also be used to power various other electronic and electrical devices to provide a smart and energy efficient solution for agriculture and farming sector.



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



(54) Title of the invention : CONTACT RESETTING ASSEMBLY FOR CONTACT RESETTING OF A CIRCUIT BREAKER

(51) International classification :H01H0001200000,  
H01H0001220000,  
H01H0001500000,  
H01H0077100000,  
H01H0071240000

(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)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)MAHAJAN, Amol Kishor**

(57) Abstract :

A contact resetting assembly for a circuit breaker is disclosed. The disclosed contact resetting assembly comprises a fixed link mounted on a contact assembly; a slider link; and a pair of compression springs configured to enable movement of the slider link between a first position and a second position when the compression spring gets loaded and unloaded, respectively. The pair of compression springs are operatively coupled to a resetting pin that is coupled to a latch link of a mechanism assembly of the circuit breaker, and the latch link is operatively coupled to a moving contact of the contact assembly such that unloading of the pair of compression spring exert an upward force on the latch link to enable movement of the moving contact of the contact assembly form a flipped position to a normal position, thereby enabling contact resetting of the contact assembly.



FIG. 2A

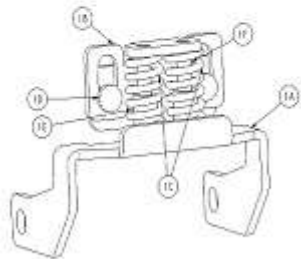


FIG. 2B

No. of Pages : 30 No. of Claims : 9

(54) Title of the invention : SYSTEM AND METHOD TO CONFIGURE PROTECTION RELAY SETTINGS

(51) International classification :G06F0003060000,  
H02H0003000000,  
H04B0007155000,  
G06F0016110000,  
H04W0048120000

(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)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)SHAIKH, Shoaib**  
**2)GORWADKAR, Rahul Ashok**

(57) Abstract :

The present disclosure provides a system and a method to configure relay settings in protection relays. The method comprising the steps of establishing a communication link with the one or more protection relays, reading relay settings of any of the one or more protection relays during load operation, verifying the relay settings of the any of the one or more protection relays, storing the relay settings of the any of the one or more protection relays in a memory operatively coupled to a computing device and writing the relay settings in the remaining one or more protection relays during store operation. Further, the method verifies the written relay configuration settings to identify whether the store operation is successful or not.

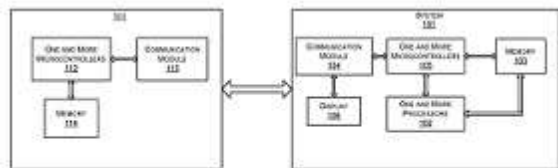


FIG. 1

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

(54) Title of the invention : A SELF-DIAGNOSING ELECTRONIC TRIPPING DEVICE

<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>:G08G0001017000, H02J0009060000, G09G0003200000, H01H0071740000, B60T0007040000</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><b>1)Larsen &amp; Toubro Limited</b> Address of Applicant :L&amp;T House, Ballard Estate, P.O Box No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India</p> <p>(72)Name of Inventor :</p> <p><b>1)CHAUDHARI, Hrudaynath</b> <b>2)JADHAV, Gopal Devji</b></p>
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(57) Abstract :

The present disclosure provides a self-diagnosing electronic tripping device. The device includes: a trip unit having a first control unit; and a display unit operatively coupled to the trip unit, the display unit having a second control unit, wherein the first control unit is configured to send a first signal to the display unit after a first pre-defined time period, and wherein the second control unit is configured to send a second signal to the trip unit based on the received first signal after a second pre-defined time period, and wherein sending of the first signal by the trip unit to the display unit ensures that the trip unit is functioning properly, and wherein sending of the second signal by the display unit to the trip unit ensures that the display unit is functioning properly.

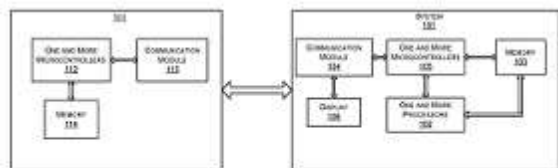


FIG. 1

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

(54) Title of the invention : SYSTEM AND METHOD FOR ASSESSING HEALTH OF CIRCUIT BREAKER

(51) International classification :H02H0003093000,  
H01H0001000000,  
H02H0003000000,  
G01R0031327000,  
H02H0003080000

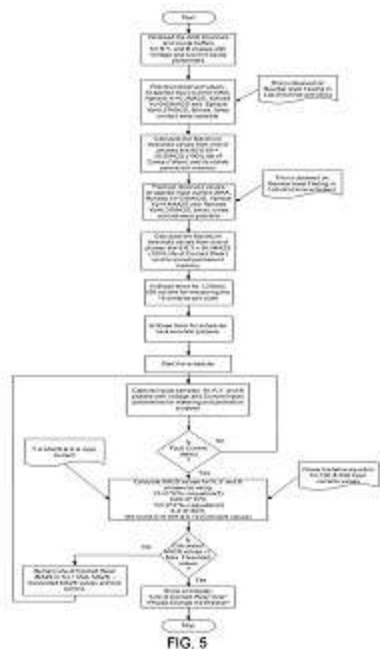
(31) Priority Document No :NA  
 (32) Priority Date :NA  
 (33) Name of priority country :NA  
 (86) International Application No :NA  
 Filing Date :NA  
 (87) International Publication No : NA  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
**1)Larsen & Toubro Limited**  
 Address of Applicant :L&T House, Ballard Estate, P.O Box  
 No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)CHAUDHARI, Hrudaynath**  
**2)JADHAV, Gopal Devji.**  
**3)DALVI, Sunil**  
**4)JOSEPH, Nirmal Paul T**

(57) Abstract :

The present disclosure provides a system and method to optimize service life of a circuit breaker. The system is inbuilt in the electronics trip unit and comprises the steps of measurement of fault current, measurement of the current at time of interruption and calculation of total I<sup>2</sup>T loss. A formula is derived which gives relationship between the fault current, I<sup>2</sup>T loss and remaining life of the contact. The hardware and firmware is designed in such a way that the remaining life of the breaker contact can be shown on a display and a notification for necessary action can be indicated, which can optimize the circuit breaker life.



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

(54) Title of the invention : WORKPIECE HOLDING DEVICE

(51) International classification :B25B0011000000,  
B25J0015000000,  
B25G0001080000,  
B25B0005100000,  
B25B0001100000

(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)KStudio Solutions Pvt. Ltd.**  
Address of Applicant :World Trade Center, 802, Tower 2,  
Dholepatil Farms Road, Opp. EON Free Zone, MIDC Knowledge  
Park, Kharadi, Pune 411014, Maharashtra, India. Maharashtra  
India

(72)Name of Inventor :  
**1)KALYANI, Viraj**  
**2)DE, Jyotiraman**  
**3)SHANKAR, Anirudh**  
**4)KUMAMEKAR, Sameer**  
**5)PATIL, Akash M.**  
**6)RAVALE, Gopal**

(57) Abstract :

The present disclosure relates to a universal fixture, in particular it relates to a workpiece holding device (hereinafter interchangeably referred as holding device • or device • ) that is capable of holding or accommodating objects having different shapes or profiles. The device can include at least one frame with a plurality of bits adapted to lift. The bits are triggered, with respect to the at least one frame to lock the workpiece in a position by automatically restricting its degree of freedom (DOF) to limit its movement. The pluralities of bits can be adapted to lift in accordance with a fixture of the workpiece. Heights associated with the plurality of bits can be controlled using a cam lever.

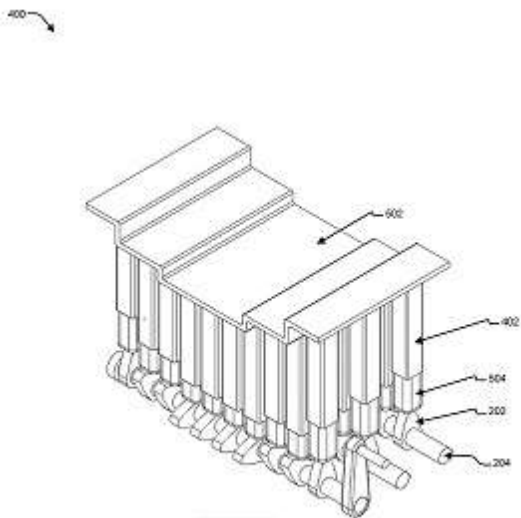


FIG. 4

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

(54) Title of the invention : DYNAMIC STOP LAMPS

(51) International classification :H01M0008043030,  
A61L0009200000,  
A47C0009000000,  
G07F0017340000,  
G03G0015047000

(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)Minda Rinder Pvt. Ltd**  
Address of Applicant :Gat no. 148, Mhalunge Ingale, Off Chakan-Talegaon Road, Pune 410501, Maharashtra, India Maharashtra India

(72)Name of Inventor :  
**1)TELORE, Sachin R.**  
**2)TANDALE, Santosh S.**  
**3)BUGAD, Swapnil P.**

(57) Abstract :

A dynamic stop lamp (100) for a vehicle is disclosed. The dynamic stop lamp (100) includes a plurality of light sources (102) and a system (104) in communication with the plurality of light sources. The system (104) includes a sensor (108) in communication with a brake pedal (110) of the vehicle. The sensor (108) is configured to detect a set of parameters associated with braking of the vehicle through the brake pedal (110). Further, the system (104) includes a controlling unit (106) in communication with the sensor (108) and the plurality of light sources (102). The controlling unit (106) is configured to receive information indicative of at least one of the set of parameters from the sensor (108). Further, the controlling unit (106) is configured to determine a number of light sources from among the plurality of light sources to be illuminated based on the received information. The controlling unit (106) is configured to illuminating the determined number of light sources from the among the plurality of light sources.

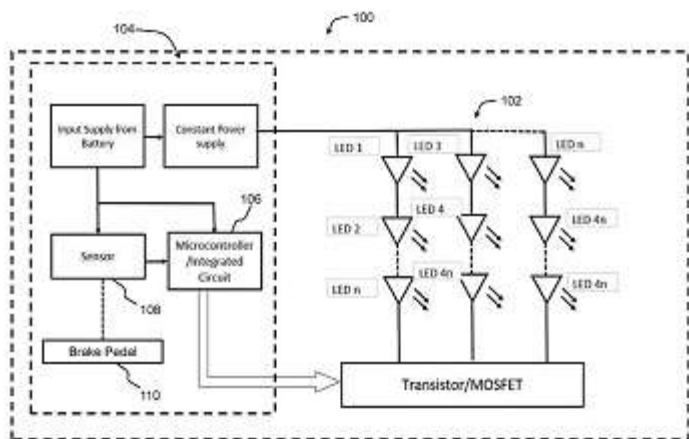


FIGURE 1

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

(54) Title of the invention : DESIGN AND DEVELOPMENT OF LPC BLADE DRESSING TOOL OF GAS TURBINE ENGINE COMPRESSOR BLADE FOR SU 30 MKI AIRCRAFT AND ALL OTHER TYPES OF COMPRESSORS BLADES

(51) International classification :B23P0006000000,  
F01D0005000000,  
B23K0031020000,  
F04D0029320000,  
B23F0023120000

(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)AIRCRAFT MANUFACTURING DIVISION,NASIK**  
Address of Applicant :HINDUSTAN AERONAUTICS  
LIMITED,AIRCRAFT MANUFACTURING DIVISION,  
NASHIK DIVISION, OJHAR TOWNSHIP POST OFFICE,  
OJHAR (MIG), NASHIK-422207, MAHARASHTRA, INDIA.  
Maharashtra India

(72)Name of Inventor :  
**1)D D AHIRWAR**  
**2)MANIT KUMAR**

(57) Abstract :

The Invention relates to Design, development and manufacturing of LPC Blade Dressing Tool for repairing or dressing of gas turbine engine compressor blade airfoils (LPC stage) and all other types of compressors Blades and similar use in Aeronautical field for blade dressing tool during engine installed condition. And all types of blade of any compression system. And this invention also relates a method of dressing of blades with the tool movement / orientation of 0 to 90 deg or vice versa. The tool, used in dressing of blades on aircraft is used to give correct movement by special eye end to other mechanical linkage movement of oil stone and files precisely. Any area of the blade edge dressing is required, without dressing, will also lead to failure of whole blade and in turn any fatal accident of aircraft. The invention was derived from the requirement of trial and error manufacturing system. The present innovation is aimed to reduce criticality / heavy machining and welding processes for repairing a gas turbine engine compressor blade airfoils includes machining away airfoil material along leading and trailing edges and a radially outer tip of the airfoil to form leading edge, trailing edge, and tip cut-backs. Then beads of welding material are welded onto the leading edge, trailing edge, and tip cut-backs. Then some of the weld material is machined away from the weld bead to obtain desired finished dimensions of . the leading and trailing edges and radially outer tip. Blade material along only radially outermost portions of the leading and trailing edges extending from the tip towards a base of the airfoil is machined away. A rounded corner is formed between the leading edge and trailing edge cut-backs and un-machined portions of the airfoil between the outermost portions of the leading and trailing edges and the base of the airfoil. And to reduce the cycle time of any rework time of aircraft production cycle. The tool, named as LPC Blade Dressing Tool, is fabricated with new tool that has been continuously used for dressing of compressor blades while assembly of gas turbine engine installed on aircraft.



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

(54) Title of the invention : GROW MORE FASTER HEALTHY FOOD WITHOUT-PESTICIDES ATLESS COST. PROPECT ENVIRONMENT

(51) International classification :A23L0033105000,  
C23C0014080000,  
A01N0025000000,  
A23N0012020000,  
C02F0003320000

(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)DR. KAMLAKAR DENKAR DESAI**  
Address of Applicant :311, VIJAY INDUSTRIES ESTATE,  
LINK ROAD, MALAD(W), MUMBAI-400 064 Maharashtra  
India

(72)Name of Inventor :  
**1)DR. KAMLAKAR DENKAR DESAI**

(57) Abstract :

India is 2nd largest populated country in the world .Indias arable land area is 159.7 million hectares (394.6million acres) is the second largest in the world after US. But the alarming rate of population growth will not support the present agricultural yield. In 2017 Indias population was 133.92 crores and in 2019 will be 135.43 crores. This rising population will need better and healthy food. By using radiation using solar support the yield of fruit, flowers and vegetables can be increased in quality as well as quantity without using insecticide and pesticide and this supports organic cultivation. This will also help to increase oxygen level in environment and limiting the global temperature rise. Solving the problem of hunger by making availability of quality vegetables/fruits at early time. Results of same are documented for mango, tomato and green chilly.

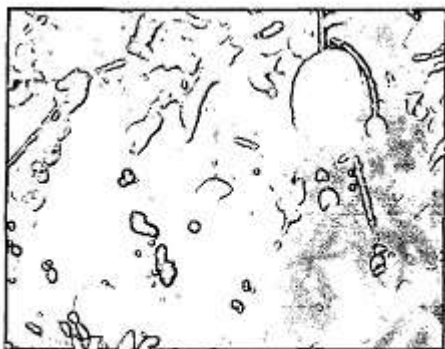


Figure:-1Alphonso mango with clean skin and grown size after 2 months

patent CBR no 7903 date 3/4/2019

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



(54) Title of the invention : SYSTEM FOR PREDICTING DEGREE OF MATURITY OF AGRICULTURE PRODUCT

(51) International classification	:A61B0005026000, G02B0027480000, A61B0005000000, G01N0033020000, G06F0011320000	(71)Name of Applicant : <b>1)Prafull P Padghan</b> Address of Applicant :Department of Physics, Sant Gadge Baba Amravati University, Amravati-444602 Maharashtra India <b>2)Kamlesh M Alti</b> <b>3)Sant Gadge Baba Amravati University</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Prafull P Padghan</b>
(33) Name of priority country	:NA	<b>2)Kamlesh M Alti</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 :

The present invention relates to a system for predicting degree of maturity of agriculture product via speckle contrast measurement. The proposed system uses a simple laser speckle based nondestructive technique to predict quality of seasonal fruit without human intervention. In this invention, speckle contrast is obtained from of the seasonal fruit to monitor their maturity with time. Thus it is found that only the speckle contrast parameter of speckle images which are obtained from variously matured fruits is enough to predict agriculture product™s maturity level and hence quality. Presented technique is rapid and requires modest image processing component and has a potential to extend it for other agriculture products also. It can be easily converted into a mobile based app with suitable changes. Following invention is described in detail with the help of Figure 1 of sheet 1 showing schematic diagram, Figure 2 of sheet 1 showing speckle patterns of Mango monitored over six days and Figure 3 of sheet 2 graph depict variation of speckle contrast values of a Mango with time.

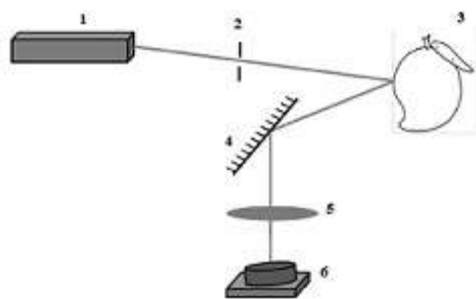


Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013481 A

(19) INDIA

(22) Date of filing of Application :03/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : COMPATIBILIZING CARRIER LIQUID MEDIA FOR COMPATIBLE INCORPORATION OF WATER BASED PIGMENT CONCENTRATE INTO SOLVENT BORNE FORMULATIONS

(51) International classification	:C09D0017000000, B05D0001280000, A61K0008270000, C09D0015000000, A61K0008280000	(71) <b>Name of Applicant :</b> <b>1)Asian Paints Ltd.</b> Address of Applicant :6A Shantinagar Santacruz (E) Mumbai Maharashtra India 400 055 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRASAD MUKUND SANGLI</b>
(33) Name of priority country	:NA	<b>2)DR. AMIT JOSHI</b>
(86) International Application No	:NA	<b>3)ELVINA ROSE</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 :

The present invention relates to a compatibilizing carrier liquid media for compatible incorporation of water based pigment concentrate into solvent borne formulations involving ethoxylatedalkyl benzene sulphonate derivative and volatile cyclic amines and a kit comprising the same carrier liquid media.

No. of Pages : 28 No. of Claims : 16

(54) Title of the invention : AUTOMATED MACHINE FOR PRESCRIBED PILL RETRIEVAL

(51) International classification	:A61J0001030000, B65B0069000000, G07F0017000000, B65D0083040000, B65B0009040000	(71) <b>Name of Applicant :</b> <b>1)DOSEPACK INDIA LLP</b> Address of Applicant :329 & 429, 3rd & 4th Floor Kalasagar Shopping Hub, Opp. Sattadhar Saibaba Temple, Ghatlodia, Ahmedabad Gujarat India Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PATEL, Miteshkumar Ishwarbhai</b>
(33) Name of priority country	:NA	<b>2)PATEL, Raj Kalpesh</b>
(86) International Application No	:NA	<b>3)KHAN, Firos</b>
Filing Date	:NA	<b>4)TRIVEDI, Nishant</b>
(87) International Publication No	: NA	<b>5)THADAMALLA, Leon</b>
(61) Patent of Addition to Application Number	:NA	<b>6)RAJPURA, Param</b>
Filing Date	:NA	<b>7)KHANDHEDIYA, Yash</b>
(62) Divisional to Application Number	:NA	<b>8)ZANZMERIA Kewal</b>
Filing Date	:NA	<b>9)MANDALIYA Viral</b>

(57) Abstract :

Abstract Automated Machine for prescribed Pill Retrieval The present invention provides an automated Machine for prescribed pill retrieval (P) facilitating error free, accurate and precise packaging of the prescribed pills in the blister packs and eliminates human dependency. Moreover, the present invention facilitates parallel automated processing of the blister pack in a way that it enables for the placement of the specific pills being filled in the blister packs. Said machine comprising: Receiving means Plurality of Automated Dose Conveyance means, Parking Station, Lift Table, Pack Separator station, Drug Dispensing station, printing station Sealing station, Unloading station, Automatic storage and Rack station, Controller 1. Each of the components being able to function in parallel. it enables the modification of the said various component parts as per the processing requirements of the blister packs, time, and available space in pharmacies, thereby is universal. Fig. 1

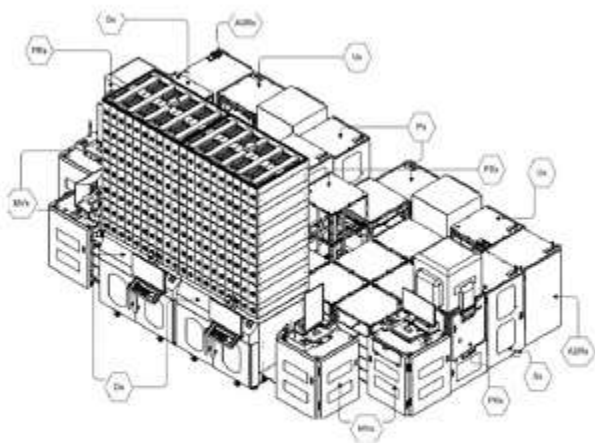


Fig.1

No. of Pages : 51 No. of Claims : 3

(54) Title of the invention : A PROCESS FOR POLY ALPHA OLEFIN SYNTHESIS

(51) International classification :C08G0075140000,  
C07C0209680000,  
C01F0007620000,  
C08K0003160000,  
C10M0107100000

(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)HINDUSTAN PETROLEUM CORPORATION LIMITED**

Address of Applicant :Hindustan Petroleum Corporation Limited, Petroleum House, 17, Jamshedji Tata Road, Churchgate, Mumbai 400020, India Maharashtra India

(72)Name of Inventor :

**1)RAMACHANDRARAO, Bojja****2)NARESH, Kottari****3)SIVA KESAVA RAJU, Chintalapati****4)ESWARARAO, Doni****5)SUBHASH, Kumar****6)RAMKUMAR, Mangala****7)VENKAT CHALAPATHI RAO, Peddy****8)VENKATESWARLU CHOUDARY, Nettem****9)SRIGANESH, Gandham**

(57) Abstract :

The present disclosure relates to a process for synthesizing poly alpha olefins (PAO) from at least one feed stream, the process comprising: (a) contacting at least one feed stream, a catalyst composition comprising a combination of aluminum chloride (AlCl<sub>3</sub>) and ferric chloride (FeCl<sub>3</sub>), and water to obtain a reaction mixture; and (b) heating the reaction mixture to obtain the poly alpha olefins.

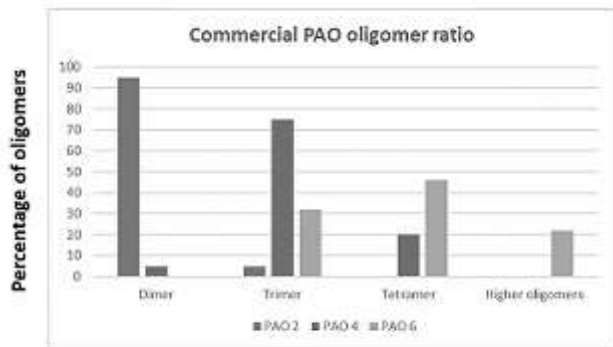


Figure 1

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

(54) Title of the invention : BLUETOOTH BASED PARAMETER MONITORING AND CONTROLLING OF MOTOR PROTECTION RELAY WITH MOTOR VIBRATION MEASUREMENTS

(51) International classification :G01R0021133000,  
H02H0007080000,  
H02H0001000000,  
H04Q0009000000,  
G01R0015140000

(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)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)GHATGE, Vikas Ashok**

(57) Abstract :

The present disclosure relates to an apparatus for monitoring parameters of a protection relay. The apparatus includes voltage sensor 102, current sensor 104, vibration sensor 106 and microcontroller 108. The voltage sensor and the current sensor are coupled to the protection relay. The voltage sensor 102 generates voltage signals (Va, Vb, Vc) from phase voltages tapped from a power supply. The current sensor generates current signals (Ir, Iy, Ib) from the power supply. The vibration sensor is coupled to the protection relay. The vibration sensor measures dynamic accelerations (Vx, Vy, Vz) associated with the protection relay. The microcontroller retrieves voltage signals (Va, Vb, Vc), current signals (Ir, Iy, Ib), and the dynamic accelerations (Vx, Vy, Vz) and process the retrieved voltage signals (Va, Vb, Vc), the retrieved current signals (Ir, Iy, Ib), and the retrieved dynamic accelerations (Vx, Vy, Vz). The microcontroller generates notification associated with parameters of protection relay.

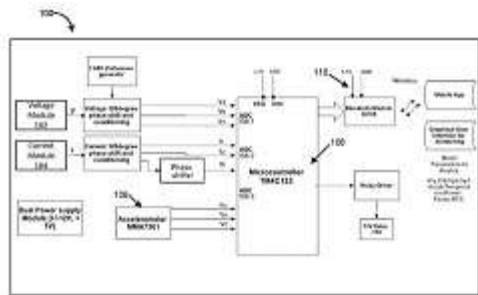


FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013538 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : A PROCESS PREPARATION OF A HIGH PURITY ETHINYL ESTRADIOL

(51) International classification	:A61K0031567000, A61K0031565000, C07J0001000000, C07J0041000000, C01G0023000000	(71) <b>Name of Applicant :</b> <b>1)IPCA LABORATORIES LIMITED</b> Address of Applicant :48, Kandivli Industrial Estate, Charkop, Kandivali (West), Mumbai 400 067, Maharashtra, India. Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KUMAR, Ashok</b>
(33) Name of priority country	:NA	<b>2)PRASAD, Ashok</b>
(86) International Application No	:NA	<b>3)RAWAT, Ajay Singh</b>
Filing Date	:NA	<b>4)SHARMA Pramod Kumar</b>
(87) International Publication No	: NA	<b>5)ZALA Jay Laljibhai</b>
(61) Patent of Addition to Application Number	:NA	<b>6)PATHAK Dharmendra Kumar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a novel process for the preparation of a hormone, Ethinyl estradiol. Particularly, the invention discloses the preparation of a high purity Ethinyl estradiol using a novel Ethinyl estradiol-dimethyl formamide solvate having 1:1 molecular ratio.

No. of Pages : 27 No. of Claims : 9

(54) Title of the invention : SELF-HEALING OF CRACKS OF CEMENTITIOUS MATERIALS THROUGH BACILLUS CEREUS MH510336

(51) International classification	:H04L0029060000, C04B0040060000, C12R0001085000, C07K0014320000, C04B0018160000	(71)Name of Applicant : <b>1)Shekar Saxena</b> Address of Applicant :Research Scholar, Civil Engineering Department, Visvesvaraya National Institute of Technology, Nagpur Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Shekar Saxena</b>
(33) Name of priority country	:NA	<b>2)Ajay R. tembhurkar</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 :

Overloading and exposure to harsh environment develop cracks in mortar adversely affecting the structure. Moreover, scarcity of use of fresh water for construction has diverted attention to reuse of treated wastewater as possible alternative, but it adds to the problem of loss in strength. Self-healing technique has emerged as eco-friendly and cost-effective technique for repairs but till now only tap water is used for mixing purpose. In an attempt to conserve water, the present research focuses to develop a technique to reuse wastewater for mixing cement mortar but without significant loss of strength. The present invention intends evolving a microbiologically induced calcium carbonate self-healing process with self-healing bacteria tolerant enough to survive wherein treated wastewater can be used for mixing of the mortar. A tolerant Bacillus cereus MH510336 was thus isolated from the soil collected from the bank of wastewater stream suitable for this purpose. The outcome of this research not only indicate filling of cracks with CaCO<sub>3</sub> as it is evident through SEM and XRD but also indicate improvement in compressive strength due to the filling of voids. The present research, if implemented, promises greater utility in the field of construction industry.



Figure 1. The growth of bacteria on nutrient agar Petri plate

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013567 A

(19) INDIA

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

(43) Publication Date : 09/10/2020

(54) Title of the invention : HERBAL MASSAGE OIL FOR PAIN •

(51) International classification	:A61K0036540000, A61K0036534000, A61K0047440000, A61K0036230000, A61K0009000000
(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)Vivek Subhash Tarate**

Address of Applicant :13, Raghukul Bunglow, Shivtej Colony, Shahunagar, Godoli, Satara, 415001, Maharashtra, India  
Maharashtra India

(72)Name of Inventor :

**1)Vivek Subhash Tarate**

(57) Abstract :

HERBAL MASSAGE OIL FOR PAIN • Abstract The present invention relates to topical novel herbal massage oil for arthritic disorders and inflammation. The herbal oil composition comprises a therapeutically effective combination of oil such as Wintergreen oil (Gaultheria procumbens) 20% w/v, Mahanarayan oil 40% w/v, Kapoor (Cinnamomum camphora) 4% w/v, Turpin oil (Turpentine) 3%w/v, Malkagni oil (Celastrus paniculatus) 3% w/v, Guggal oil (Commiphora wightii)5% w/v, Mahamash oil 10%, Panchguna oil 5%, Pudina Satwa (Mentha arvensis) 1%, Mahavishgarbha oil 10%, Til oil (Seasamum indicum) quantity sufficient optionally along with pharmaceutically acceptable excipients by Quick Penetrating Solution (QPS) Technology.

No. of Pages : 15 No. of Claims : 3

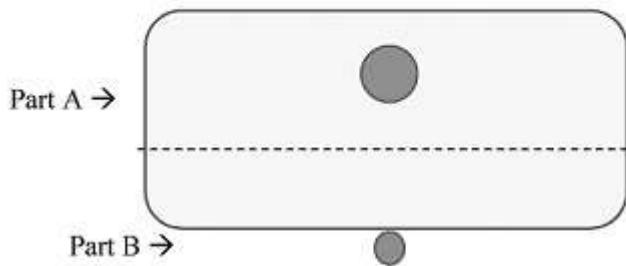


(54) Title of the invention : A PHARMACEUTICAL KIT •

(51) International classification	:A61K0031473000, A61K0031496000, A61K0047260000, C07H0017040000, A61K0031585000	(71) <b>Name of Applicant :</b> <b>1)CADILA HEALTHCARE LIMITED</b> Address of Applicant :Zydus Tower, Satellite Cross Roads, Ahmedabad 380015, Gujarat, India Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KANNAN, M. E.</b>
(33) Name of priority country	:NA	<b>2)JOGANI, Pranav</b>
(86) International Application No	:NA	<b>3)UPADHYAY, Vinay</b>
Filing Date	:NA	<b>4)PATEL, Sanjay</b>
(87) International Publication 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 PHARMACEUTICAL KIT Present invention relates to a pharmaceutical kit comprising two or more medicaments in a compact package provided that a pharmaceutical kit is divided in two or more parts as per the requirement using perforation. Present invention also relates to a pharmaceutical kit comprising netupitant and palonosetron or their pharmaceutically acceptable salts placed separately in a same kit that is divided by perforation. This pharmaceutical kit is useful when such drugs are prescribed in a combination therapy to prevent or treat chemotherapy induced nausea or vomiting.

**Figure 1**

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

(54) Title of the invention : ETHERNET BASED SHARING OF SIMULATION TEST KIT RECORDS BY USING INTERNET PROTOCOL

(51) International classification :H04L0029080000,  
H01H0071120000,  
G06Q0010100000,  
G07C0005080000,  
H04W0004029000

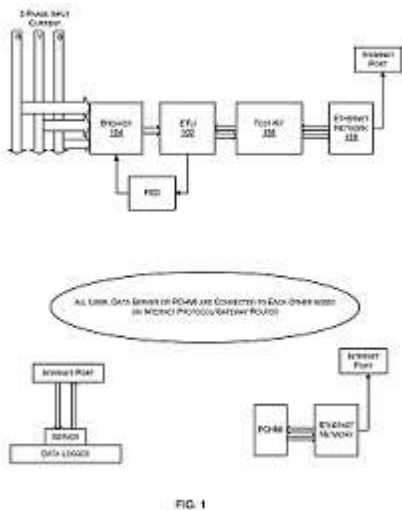
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)JADHAV, Gopal Devji**  
**2)BHAGAT, Gautam**  
**3)GIRHE, Ankit**

(57) Abstract :

The present disclosure relates to an internet protocol with high-level security to share trip records, protection and system settings of a simulation test kit to remote places. An aspect of the present disclosure relates to simulation test kit 106 for testing of an electronic trip unit (ETU) 102 of a circuit breaker (CB) 104. The simulation test kit 106 is electronically connected to the ETU 102. The simulation test kit 106 includes non-transitory storage device to store a retrieved parametric data associated with the ETU 102 under test from the CB 104. The simulation kit includes a communication unit to establish a connection with one or more user devices connected in a network and share the stored parametric data from the non-transitory storage device with user devices, wherein the stored parametric data is shared using an Internet Protocol (IP) with the one or more user devices.



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

(54) Title of the invention : WIRELESS SYSTEM WITH HIGH-LEVEL SECURITY TO SHARE TRIP RECORD OF A CIRCUIT BREAKER TESTING UNIT

(51) International classification :H01H0071120000,  
H02H0003000000,  
H02H0003100000,  
H02H0003080000,  
H02H0001060000

(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)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)JADHAV, Gopal Devji**  
**2)BHAGAT, Gautam**

(57) Abstract :

The present disclosure relates to a system for providing high-level security to share trip records of a testing unit of circuit breaker. The system incorporates an electronic trip unit (102) (ETU) configured to monitor circuit parameters of an electric circuit (104), and facilitate opening of the electric circuit (104) if the monitored circuit parameters crosses a pre-defined range; a testing unit (106) configured to generate and send a first current to the ETU, the first current based on the protection settings and the pre-defined range of the circuit parameters set in the testing unit (106), and generate a trip record based on a second current send by the ETU (102) to the testing unit (106) whenever the ETU (102) is tripped on receiving the first current; and a password secured wireless communication unit (108) to send the trip records to users having access to the wireless communication unit (108).

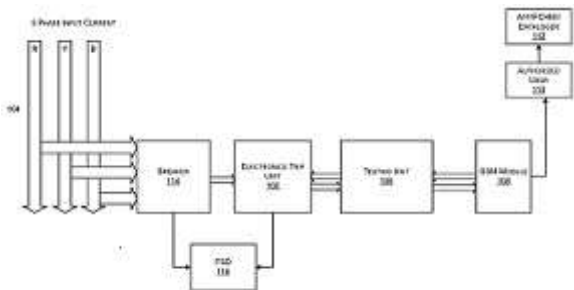


FIG. 1

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

(54) Title of the invention : DYNAMIC LOAD DETERMINATION ON A TYRE

(51) International classification	:A61B0090000000, H01Q0001240000, G01M0017020000, B60C0023060000, G06F0003041000	(71)Name of Applicant : <b>1)CEAT LIMITED</b> Address of Applicant :RPG HOUSE, 463, Dr. Annie Besant Road, Worli, Mumbai- Maharashtra 400 030, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)GEORGE, Jacob</b>
(33) Name of priority country	:NA	<b>2)PATEL, Sandip</b>
(86) International Application No	:NA	<b>3)SHARMA, Praveen</b>
Filing Date	:NA	<b>4)THOMAS, Juban</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter discloses an automated load detection system (ALDS) (110) and a sensor assembly (104) may be communicatively coupled to the tyre (102). The ALDS (110) may receive location data (132) of the sensor assembly (104) and it may ascertain presence of the sensor assembly (104) in a contact patch of the tyre (102). The sensor assembly (104) may share sensor data (134) with the ALDS (110). The ALDS (110) may generate an acceleration profile based on vehicle parameter (136) received from the vehicle (101) along with the sensor data (134). The ALDS (110) may determine a contact patch length (CPL) based on the acceleration profile and a loaded radius of the tyre (102) based on the CPL. The loaded radius may be analysed by the ALDS (110) with respect to a empirical data (138) to determined load on the tyre (102) of the vehicle (101). <<TO BE PUBLISHED WITH FIG. 1>>

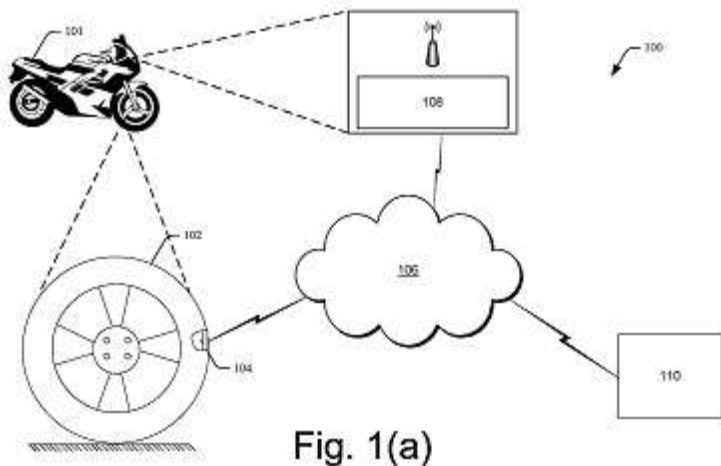


Fig. 1(a)

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

(54) Title of the invention : MULTIPOINT CONVERTERS TO INTERFACE SOLAR PV ARRAYS AND BATTERY STORAGE SYSTEM WITH DC ELECTRIC GRID

(51) International classification :H02J0003380000,  
H02J0007000000,  
H02M0003335000,  
H02M0001000000,  
B60L0008000000

(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)INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
Address of Applicant :Indian Institute Of Technology,  
Bombay, Powai, Mumbai Maharashtra Maharashtra India

(72)Name of Inventor :  
**1)Chatterjee Kishore**  
**2)Fernandes Baylon G**  
**3)Vettuparambil Anees**

(57) Abstract :

According to the present disclosure, a multiport power converting apparatus (100) comprises a high-frequency transformer (110) comprising a primary side (102) and a secondary side (104). The primary side (102) of the high-frequency transformer (110) is connected to a battery (140) and a plurality of solar photovoltaic (PV) panels (150) through a plurality of power electronic switches (120) and inductors (130). An array of power electronic switches (160) forming a Direct current (DC) microgrid port, is connected to the secondary side (104) of the high-frequency transformer (110). Each side of the high-frequency transformer has at least one winding wound on at least one magnetic core and the multiport power converting apparatus (100) is configured to operate in a grid-connected mode and an islanded mode to extract maximum power available from the plurality of solar photovoltaic (PV) panels (150) and to control the charging current of the battery (140).

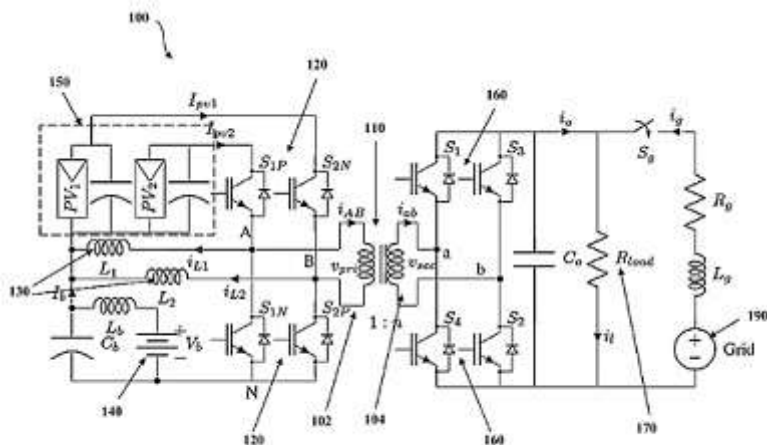


Figure 1

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

(54) Title of the invention : AN AUTONOMOUS DRONE FOR TRANQUILIZING AND MONITORING HARMFUL PREDATOR ANIMALS

(51) International classification :B64C0039020000,  
A61K0038180000,  
A62C0003020000,  
A01M0031000000,  
A01K0011000000

(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)Dr. Amol Prakash Bhagat**  
Address of Applicant :Prakashdeep, Lane 7 Yashoda Nagar  
No. 2, Amravati, Maharashtra, India 444606 Maharashtra India  
**2)Rohit Tejsing Mohata**  
**3)Akshay Dipak Gupta**  
**4)Aditya Digambar Tarar**  
**5)Suyog Yogesh Kant**

(72)Name of Inventor :  
**1)Dr. Amol Prakash Bhagat**  
**2)Rohit Tejsing Mohata**  
**3)Akshay Dipak Gupta**  
**4)Aditya Digambar Tarar**  
**5)Suyog Yogesh Kant**

(57) Abstract :

As it has been seen in recent times wild animals enter in the residential areas such as societies, villages, cities, etc. It is very difficult to trap the animals in forests as well as in the residential areas. Sharp shooters, animal catchers, tranquillizer gun, etc. are used for controlling or catching such animals. Such process requires lots of time, man power, resources, and also it involves risk of life. To address all these issues an autonomous drone for tranquilizing and monitoring harmful predator animals is invented here. In this invention a drone with tranquilizing mechanism is used to tranquilize animals. The remote controlled drone searches for animals to be tranquilized in residential areas or forests. The searched animals can be viewed on the screen available at monitoring station from where drone is remotely operated. After locating the animal to be tranquilized, action will be taken by the operator, who is operating the drone, whether to tranquilize the animal or not. Even the forest areas can be monitored by using the invented drone. The forest animals trapped in danger situations can be monitored using the invented drone. The proper rescue can be provided for such animals. The illegal activities such as hunting, smuggling, etc. in forests can be restricting using the invented system. Using this invention forests and other animal prone areas can be kept secured.

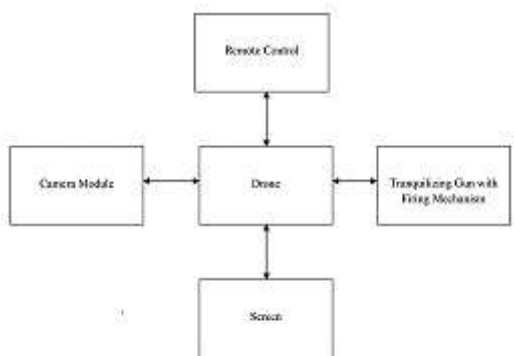


Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013835 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : METHOD AND SYSTEM FOR IN-SILICO OPTIMIZATION AND DESIGN OF ELECTROLYTES

(51) International classification :G16H0050500000,  
A61L0027560000,  
B33Y0050020000,  
A23L0033160000,  
F02B0037200000

(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 Maharashtra India

(72)Name of Inventor :  
**1)RAVIKUMAR, Bharath**  
**2)RAI, Beena**  
**3)MYNAM, Mahesh**  
**4)REPAKA, Sravani**  
**5)KUMAR, Surbhikumari Ashutosh**

(57) Abstract :

**ABSTRACT METHOD AND SYSTEM FOR IN-SILICO OPTIMIZATION AND DESIGN OF ELECTROLYTES** Owing to complexity of the algorithms and tools very few attempts have been seen for usage of simulation methods in the development of new electrolytes. Moreover, the existing simulation methods focus on only one aspect of the electrolyte at a time and this limits accuracy of simulation results, and affects performance of electrolyte in real world, where multiple factors come into play simultaneously. The method disclosed provides method and system for in-silico optimization and design of electrolytes, enabling prediction of various properties of an electrolytic mixture of salts, solvents and various additives and its suitability for a given battery technology. The in-silico method shapes itself into an overall battery electrolyte property or component composition analyzer based on the user input. [To be published with FIG. 3]



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013925 A

(19) INDIA

(22) Date of filing of Application :05/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : ZEOLITE INTERGROWTH MATERIALS, COMPOSITIONS, METHODS AND APPLICATIONS THEREOF

(51) International classification	:B01D0053020000, B01J0029720000, B01J0029800000, B01J0020260000, C08L0053000000	(71) <b>Name of Applicant :</b> <b>1)RELIANCE INDUSTRIES LIMITED</b> Address of Applicant :3rd Floor, Maker Chamber-IV, 222, Nariman Point, Mumbai 400 021, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)YOGESH SURESH NIWATE</b>
(33) Name of priority country	:NA	<b>2)SATISH DASHARATH SHEWALE</b>
(86) International Application No	:NA	<b>3)KALPANA GOPALAKRISHNAN</b>
Filing Date	:NA	<b>4)PRAKASH KUMAR</b>
(87) International Publication No	: NA	<b>5)RAKSH VIR JASRA</b>
(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 fields of material science and separation science. In particular, the present disclosure relates to zeolite intergrowth materials, compositions, methods of preparation and applications thereof. The zeolite intergrowth materials comprise two or more zeolites coexisting in a single crystal, wherein the zeolites have at least one common secondary building unit. The present disclosure also relates to a method for selective adsorption of a component such as p-xylene from a mixture, by the zeolite intergrowth materials of the present disclosure.

No. of Pages : 43 No. of Claims : 22



(54) Title of the invention : METHOD FOR ESTABLISHING A RETAIL BRANCH

<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>:A47G0029120000, H04B0007185000, G06Q0030020000, G08B0013240000, G06Q0040020000</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>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Kapil Vijaykumar Dongargaonkar</b></p> <p>Address of Applicant :Samarth Residency, Behind samarth temple, Infront of Yogeshwari College, Parali Road, Ambajogai, Dist Beed, Maharashtra, INDIA, 431517 Maharashtra India</p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Kapil Vijaykumar Dongargaonkar</b></p>
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(57) Abstract :

The present invention is related to the method for establishing a retail branch in a rural area comprising: identifying a non-organized retail branch in the rural area; determining an amount of sale of the non-organized retail branch in the rural area; introducing the brand using the non-organized retail counter in the rural area via an agreement and providing plurality of goods to the non-organized retail counter for selling.

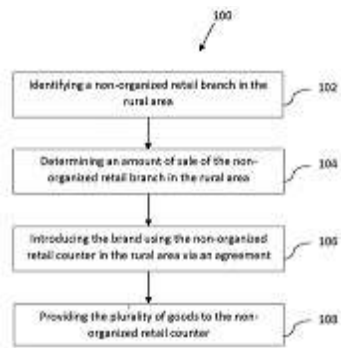


FIG. 1

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013941 A

(19) INDIA

(22) Date of filing of Application :06/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : A REVERSIBLE COLOURED PHOTOCHROMIC ADDITIVE

(51) International classification :C08K0003220000,  
G03C0001730000,  
B01J0023300000,  
B01J0023940000,  
B41M0005260000

(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)Koel Colours Pvt. Ltd.**

Address of Applicant :F - 11, Nand Jyot Industrial Premises,  
Safed Pool, Andheri Kurla Road, Saki Naka, Andheri (E),  
Mumbai - 400 072, Maharashtra, India Maharashtra India

(72)Name of Inventor :

**1)Desai Dhirubhai Bhikhubhai**

(57) Abstract :

ABSTRACT A reversible coloured photochromic additive A stable and consistent reversible coloured photochromic additive changes colour from original buff to desired colour shade between pink to blue when exposed to sunlight and restores to original colour in the absence of the sunlight; simultaneously having synergistic SPF value of at least 3. The additive comprises titanium dioxide, pseudoboehmite, iron oxide hydroxide and tungsten oxide.

No. of Pages : 24 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921013954 A

(19) INDIA

(22) Date of filing of Application :06/04/2019

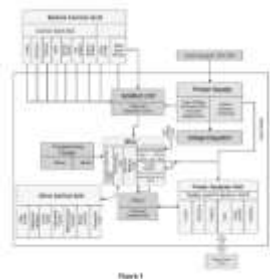
(43) Publication Date : 09/10/2020

(54) Title of the invention : ON-BOARD CENTRAL ELECTRONIC CONTROL SYSTEM FOR ELECTRIC VEHICLE

(51) International classification	:G07C0005000000, H05K0003300000, B60L0015200000, G07C0005080000, B60L0003000000	(71)Name of Applicant : <b>1)Tork Motors Pvt. Ltd.</b> Address of Applicant :4/25 Sector 10, PCNTDA, Bhosari, Pune Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dhiraj Chaurasiya</b>
(33) Name of priority country	:NA	<b>2)Srijan Chaurasiya</b>
(86) International Application No	:NA	<b>3)Kapil Shelke</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 :

ON-BOARD CENTRAL ELECTRONIC CONTROL SYSTEM FOR ELECTRIC VEHICLE Abstract of the invention Disclosed herein an On-Board Electronic Control System for electric vehicle comprises of a power analyser unit, communication unit, Micro Electronic Controller (MEC), an input power protection and a drive control unit, wherein said MEC is capable of predicting the life expectancy of the units and their different components based on their number of uses and kind of uses of the same and capable of live updating the operational parameters over the air.



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

(54) Title of the invention : LAB VIEW BASED RUNWAY VISIBILITY MEASUREMENT USING FORWARD SCATTERING

(51) International classification	:G01N0021530000, G08B0017107000, E01H0013000000, H04W0008000000, G08B0017113000	(71)Name of Applicant : <b>1)AMBETKAR ABHISHEK ARUN</b> Address of Applicant :A/106, SWAROOP ORCHID, GANESH NAGAR, BADLAPUR-421503, MAHARASHTRA, INDIA. Maharashtra India
(31) Priority Document No	:NA	<b>2)RAKHONDE PRATIK BHAGWAN</b>
(32) Priority Date	:NA	<b>3)SWATI BHAT</b>
(33) Name of priority country	:NA	<b>4)KULKARNI SHEETAL VIJAY</b>
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)AMBETKAR ABHISHEK ARUN</b>
(87) International Publication No	: NA	<b>2)RAKHONDE PRATIK BHAGWAN</b>
(61) Patent of Addition to Application	:NA	<b>3)SWATI BHAT</b>
Number	:NA	<b>4)KULKARNI SHEETAL VIJAY</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

The proposed system is important in order to find visibility for safety of aircrafts in runway. It mainly comprises of a source, detector, arduino, Lab VIEW software. This simplifies the process of finding out visibility by scattering in runways /eliminating the traditional method used before. In this system , the source emitting uniform beam of light at regular intervals is scattered by the suspended particles in the air and hence captured by the detector. The detected voltage after amplification contributes to find out visibility.

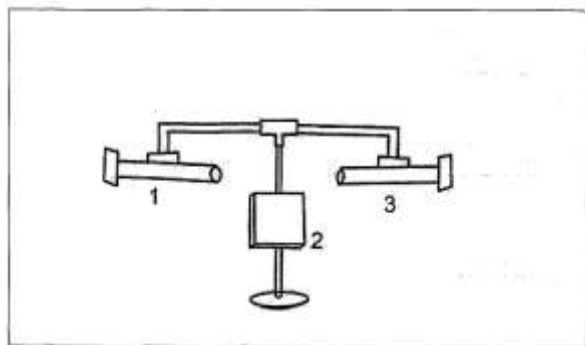


Figure 1

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

(54) Title of the invention : WEB BASED AUTOPNEUMATIC SOLAR PANEL CLEANING SYSTEM

(51) International classification :H02S0040100000,  
F24S0040200000,  
H02S0050000000,  
H02S0040120000,  
H02S0040420000

(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)SHRAVANI SANDEEP THOMBRE**

Address of Applicant :A/8, LAXMI HOMES, NEAR PRATIK NAGAR, VISHRANTWADI, PUNE-411006, MAHARASHTRA, INDIA. Maharashtra India

**2)ISHWAR MAHESH BADVE****3)KULKARNI SHEETAL VIJAY**

(72)Name of Inventor :

**1)SHRAVANI SANDEEP THOMBRE****2)ISHWAR MAHESH BADVE****3)KULKARNI SHEETAL VIJAY**

(57) Abstract :

Solar energy is the most abundant source of energy for all the forms of life on the planet Earth. It is also the basic source of energy. The solar PV modules are generally employed in dusty environments which is the case in tropical countries like India. The dust gets accumulated on the front surface of the module and blocks the incident light from the sun. It reduces the power generation capacity of the module. This project aims at increasing the efficiency of solar power plants by solving the problem of accumulation of dust on the surface of solar panel which leads to reduction in plant output and overall plant efficiency. In order to regularly clean the dust, an automatic cleaning system has been designed which cleans the module automatically. The system is a robotic system which could move autonomously on the surface of solar panels and use dry methods for cleaning. This system uses pneumatic air for cleaning. The system is attached on the solar panel in a slanting position. This automated system is implemented using ESP8266 Node MCU which controls the DC motors.

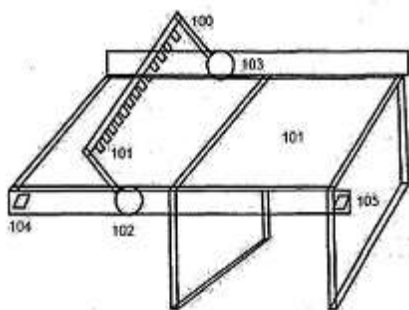


Figure 1

No. of Pages : 7 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921014062 A

(19) INDIA

(22) Date of filing of Application :08/04/2019

(43) Publication Date : 09/10/2020

(54) Title of the invention : SEED DRILL AUTOMATION

(51) International classification :A01C0005060000,  
A01C0007200000,  
G06Q0050020000,  
A01C0007100000,  
G06N0020000000

(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)NAYAN NARANBHAI SONAGARA**  
Address of Applicant :S/O. NARANBHAI SONAGARA,  
MACHHU BERAJA, TA: LALPUR, JAMNAGAR - 361280,  
GUJARAT, INDIA. Gujarat India  
**2)PUNIT PUNCHABHAI SONAGARA**  
**3)JAYDEEP DALSUKHBHAI SIDPARA**

(72)Name of Inventor :  
**1)NAYAN NARANBHAI SONAGARA**  
**2)PUNIT PUNCHABHAI SONAGARA**  
**3)JAYDEEP DALSUKHBHAI SIDPARA**

(57) Abstract :

The main aim of our topic SEED DRILL AUTOMATION is refreshing knowledge on the current Agriculture Equipment. This project will be a design and implementation of an agriculture & farmer. In the farming process, often used conventional sowing operation takes more time and more labor. The seed feed rate is more but the time required for the total operation is more and the total cost is increased due to labor, hiring of equipment. The conventional seed sowing machine is less efficient, time consuming. Current seed drill machine working on mechanical system. We can remove mechanism and apply automation in seed drill machine. This automation benefits for farmer and in agriculture because the automation is time saving for farmer, easy for farmer and farmer can do it perfect sowing.

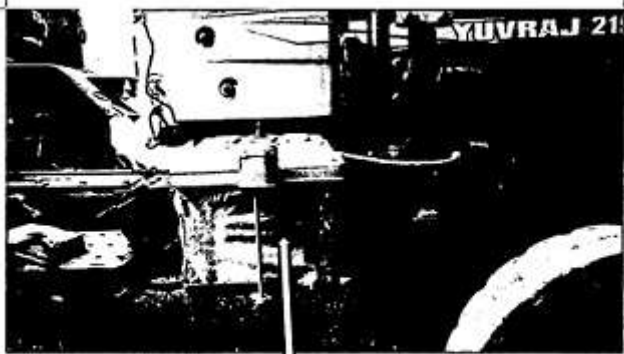


Figure 6 Tractor battery

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

(54) Title of the invention : CONNECTION AND LINE TERMINATION PROVISION ON A PROFIBUS DEVICE

<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>:G06F0013420000, H04L0012400000, H05K0007140000, H01M0010052500, G05B0019042000</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><b>1)Larsen &amp; Toubro Limited</b> Address of Applicant :L&amp;T House, Ballard Estate, P.O Box No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India</p> <p>(72)Name of Inventor :</p> <p><b>1)SARANG, Sanjay Vaman</b> <b>2)GORWADKAR, Rahul</b></p>
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(57) Abstract :

The present disclosure relates to a bus technology, and more specifically relates to, a remote station and based on having a communication system PROFIBUS PROFIBUS-DP protocol thereof. An aspect of the present disclosure relates to an electronic device of a process field bus (PROFIBUS) network for an automation system. The electronic device includes an electric switch having at least two switches (SW1, SW2) operable for cutting the electronic device in from the PROFIBUS network or for cutting the electronic device out from the PROFIBUS network without impairing a bus connecting a plurality of devices forming the PROFIBUS network, wherein the electronic device is selected from the plurality of devices.

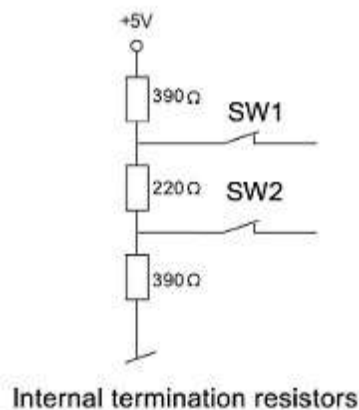


FIG. 4

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

(54) Title of the invention : ISOLATION MECHANISM FOR ELECTRICAL DISTRIBUTION BOARDS

(51) International classification :H02B0001052000,  
H02G0005020000,  
H02B0001200000,  
H02H0003080000,  
H01R0009260000

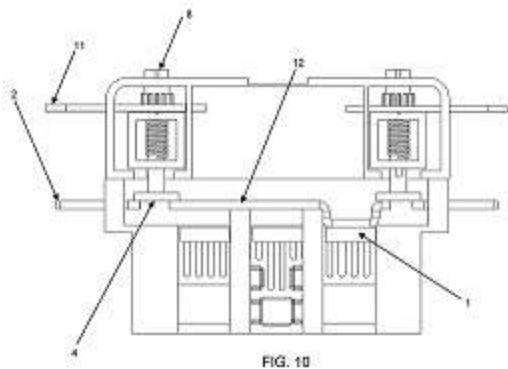
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)SINGH, Gauraw Kumar**  
**2)BHADORIYA, Dipika**

(57) Abstract :

The present disclosure relates to an electrical distribution board with an isolation mechanism for protecting or isolating any circuit with fast and simple adaption. The electrical distribution board includes at least one incoming conductor terminal, outgoing conductor terminals 2, 12, at least one longitudinal bus conductor and at least one lateral conductor tab 1. The longitudinal bus conductor is connected to the at least one incoming conductor terminal. The lateral conductor tab is connected to the at least one bus conductor for distributing electrical power from the bus conductor to first outgoing conductor terminal selected from the outgoing conductor terminals. The board further includes an isolation mechanism 11 having user operable device to selectively make contact with the lateral conductor tab and second outgoing conductor terminal selected from the outgoing conductor terminals, and to electrically isolate remaining outgoing conductor terminals of the outgoing conductor terminals from the lateral conductor tab.



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



(54) Title of the invention : A DEVICE FOR SENSING AND MONITORING PARAMETERS OF A SOIL

(51) International classification :A61B0005000000,  
G05B0023020000,  
A61N0001050000,  
G01N0033240000,  
G01J0001440000

(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)Larsen & Toubro Limited**  
Address of Applicant :L&T House, Ballard Estate, P.O Box  
No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India

(72)Name of Inventor :  
**1)JADHAV, Gopal Devji**  
**2)CHAUGULE, Sachin S.**

(57) Abstract :

The present disclosure provides a soil parameter sensing device for sensing, displaying and monitoring parameters of a soil of interest. The soil parameter sensing device includes one or more leads configured to be inserted in the soil of interest to sense one or more soil parameters and generate one or more signals associated with the sensed one or more soil parameters. The system includes a signal conditioning unit configured to receive the generated one or more signals and transform the received one or more signals into a readable format, wherein the sensed one or more soil parameters in the readable format is displayed on a display coupled with said soil parameter sensing device to enable immediate assessment of the soil of interest.

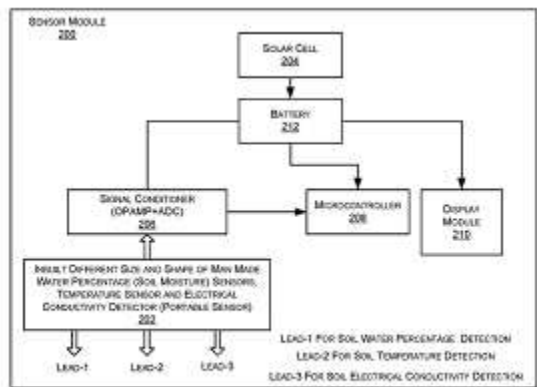


FIG. 2

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

(54) Title of the invention : A SMART PUMP CONTROLLER AND A SECURITY SYSTEM 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>:H04L0029060000, H04L0029080000, A01G0025160000, B05C0005020000, G08B0013140000</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><b>1)Larsen &amp; Toubro Limited</b> Address of Applicant :L&amp;T House, Ballard Estate, P.O Box No. 278, Mumbai- 400001, Maharashtra, India. Maharashtra India</p> <p>(72)Name of Inventor :</p> <p><b>1)KARANDE, Pallavi</b> <b>2)GHATOLE, Piyush</b></p>
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(57) Abstract :

The pump controller (100) and its security system incorporates a microcontroller (102) to monitor and control a pump (102); a GSM unit (106) operatively coupled to microcontroller (104) to monitor and control the pump (102) through mobile computing device of registered user (110); and a GPS unit (108) operatively coupled to the microcontroller (104) to send location of the pump controller (104). The GSM unit (106) sends location of the pump controller (100) to the registered user (110), if the pump controller (100) is moved beyond a pre-defined distance. The GSM unit (104) sends an encrypted password on the mobile computing device whenever the pump controller (100) is tried to be configured. The pump controller (100) validates the registered user (110) and enables configuring of pump (102), if the same encrypted password is send back to the pump controller (100) by the mobile computing device of the non-registered user.

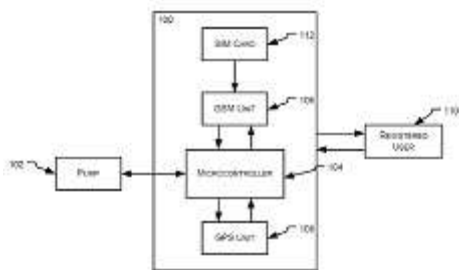


FIG. 1

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

(54) Title of the invention : CONTROL EQUIPMENT FOR PERFORMING MINIMALLY INVASIVE ENDOSCOPIC SURGICAL PROCEDURES

(51) International classification :A61B0017000000,  
A61B0017340000,  
A41D0001000000,  
A61B0001000000,  
G06F0017400000

(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)SURESH DESHPANDE**  
Address of Applicant :SWARUP HOSPITAL, 154,  
DUDHALI, KOLHAPUR, 416012, MAHARASHTRA, INDIA  
Maharashtra India

(72)Name of Inventor :  
**1)SURESH DESHPANDE**

(57) Abstract :  
**ABSTRACT CONTROL EQUIPMENT FOR PERFORMING MINIMALLY INVASIVE ENDOSCOPIC SURGICAL PROCEDURES** A control equipment (100) for performing minimally invasive endoscopic surgical procedures, said control equipment being configured to provide movement in 4 principal axes and being configured to provide with 4 degrees of freedom (DoF) for an end effector assembly.

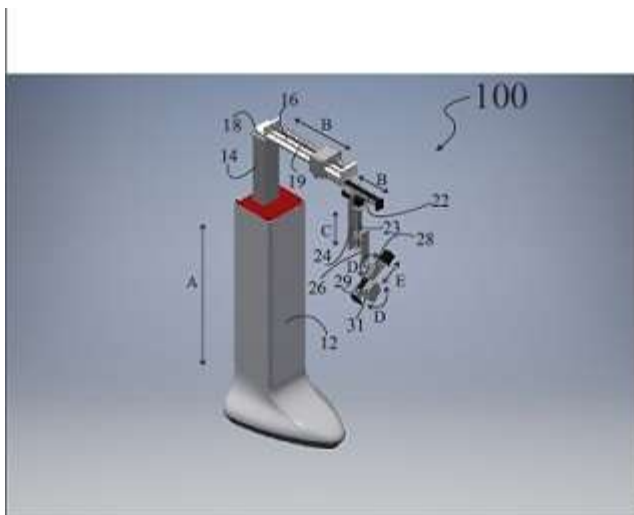


FIGURE 1

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

(54) Title of the invention : A METHOD AND APPARATUS FOR INSERTED TWISTED TUBE AND STRIP OF SOLAR WATER HEATER

(51) International classification	:F24S0060300000, F24S0010400000, C02F0001140000, F24S0025100000, F24S0025000000	(71)Name of Applicant : <b>1)Maulesh Hiteshbhai Parikh</b> Address of Applicant :C-33 Meghdoot Socity, Behind Mehta Girls Hostel, Vrundavan Char Rasta, Waghodia Road, City Vadodara State Gujarat Country India Pin code 390019 Gujarat India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Maulesh Hiteshbhai Parikh</b>
(33) Name of priority country	:NA	<b>2)Gaurav Kumar Prabhubhai Bandhania</b>
(86) International Application No	:NA	<b>3)Parmar Hardik Kantibhai</b>
Filing Date	:NA	<b>4)Mistry Mihir Jayeshbhai</b>
(87) International Publication No	: NA	<b>5)Machhi Mayur Rajeshbhai</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Mehul Vijay Ingle</b>
Filing Date	:NA	<b>7)Patel Meet Kiranbhai</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and apparatus for inserted twisted tube and strip of solar water heater comprising a twisted cylinder, wherein water circulated in the twisted cylinder. Twisted cylinder having a heliacal shape, so due this concern heat transfer flow rate maximum and convey the heat into contact water from the evacuated cylinder and transfer maximum heat transfer. Twisted strip generated turbulence flow, so that water path achieve maximum heat and transfer to the particular latent heat to the water. A twisted cylinder made from the any martial but copper best suitable for the particular present invention, due to the maximum heat obtained from the sunlight.

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

(54) Title of the invention : A FLUID CATALYTIC CRACKING (FCC) PROCESS AND APPARATUS FOR PRODUCTION OF LIGHT OLEFINS

(51) International classification :C10G0011180000,  
B01J0037000000,  
B01J0029800000,  
B01J0029400000,  
B01J0029080000

(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 :201721030227  
Filed on :25/08/2017

**(71)Name of Applicant :**

**1)HINDUSTAN PETROLEUM CORPORATION LIMITED**

Address of Applicant :HINDUSTAN PETROLEUM CORPORATION LIMITED, Petroleum House, 17 Jamshedji Tata Road, Churchgate, Mumbai, Maharashtra 400020, India  
Maharashtra India

**(72)Name of Inventor :**

**1)KUKADE, Somanath**

**2)KUMAR, Pramod**

**3)PEDDY, Venkata Chalapathi Rao**

**4)GANDHAM, Sriganesh**

**(57) Abstract :**

The instant disclosure provides a composition for fluid catalytic cracking of petroleum based feedstock into useful short chain olefins. The composition comprising: 76-86% of a non-zeolitic material; and 2-30% of at least one zeolite material, the percentage being based on weight of the catalyst composition, wherein one of the zeolites has been modified with 0.1-2.5 wt% metal. The said catalyst was found to be selective in enhancing the usable propylene gas content, while reducing the undesirable dry gas content of the cracked olefinic products. The present disclosure also provides a process for the preparation of the composition. The present disclosure also provides an apparatus (100) and process (200) for fluid catalytic cracking to obtain light olefins. The apparatus comprises a second riser (33) that includes a lower dense riser (2) and upper dilute riser (3). Further, the lower dense riser (2) has a diameter that is 1.1 to 2 times that of the upper dilute riser (3).

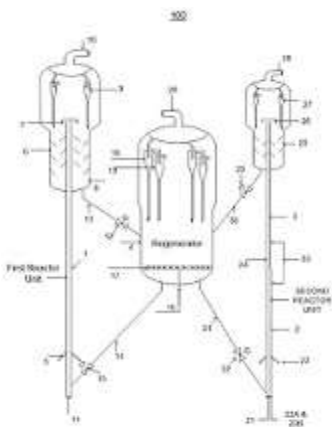


FIG. 1

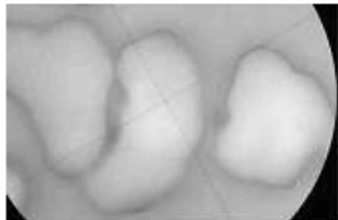
No. of Pages : 47 No. of Claims : 13

(54) Title of the invention : ENCAPSULATED MICRONUTRIENT GRANULES FOR FORTIFICATION OF EDIBLE SALT COMPOSITIONS

(51) International classification	:A23P0010300000, A23L0027400000, C05D0009020000, C09K0019320000, C09D0007400000	(71)Name of Applicant : <b>1)TATA CHEMICALS LIMITED</b> Address of Applicant :BOMBAY HOUSE, 24 HOMI MODI STREET, MUMBAI- 400001, INDIA Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SHASHIKALA, M. N.</b>
(33) Name of priority country	:NA	<b>2)JAGGAVARAPU, SATYANARAYANA REDDY</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:201821011987	
Filed on	:29/03/2018	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to substantially encapsulated micronutrient granules for fortification of an edible salt composition. Said substantially encapsulated micronutrient granules comprise of at least one micronutrient having a particle size in a range of 10 to 250 microns, wherein said micronutrient is encapsulated by an outer coating comprising of a fatty acid and a cellulose derivative. FIG. 2



**Figure 2**

No. of Pages : 22 No. of Claims : 14

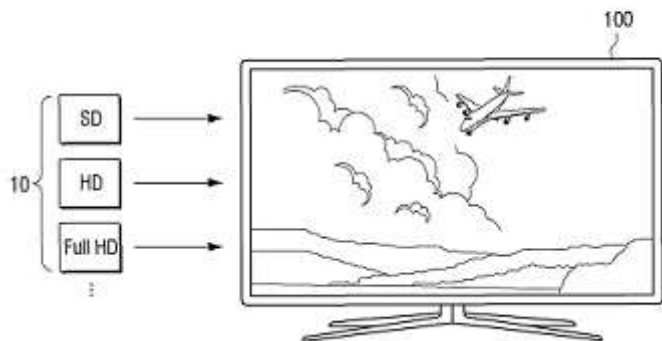
(54) Title of the invention : DISPLAY APPARATUS AND IMAGE PROCESSING METHOD THEREOF •

(51) International classification	:G06K0009000000, G06K0009460000, G06T0007000000, G06K0009620000, G06T0015040000	(71)Name of Applicant : <b>1)SAMSUNG ELECTRONICS CO., LTD.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea
(31) Priority Document No	:10-2019-0038439	(72)Name of Inventor :
(32) Priority Date	:02/04/2019	<b>1)Hyungjun LIM</b>
(33) Name of priority country	:Republic of Korea	<b>2)Youngsu MOON</b>
(86) International Application No	:NA	<b>3)Taegyong AHN</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 :

An image processing apparatus and method are provided. The image processing apparatus includes: a memory configured to store at least one instruction, and a processor electrically connected to the memory, wherein the processor, by executing the at least one instruction, is configured to: apply an input image to a training network model; and apply, to a pixel block included in the input image, a texture patch corresponding to the pixel block to obtain an output image, wherein the training network model stores a plurality of texture patches corresponding to a plurality of classes classified based on a characteristic of an image, and is configured to train at least one texture patch, among the plurality of texture patches, based on the input image.

FIG. 1



No. of Pages : 63 No. of Claims : 15

(54) Title of the invention : A PLANET WHEEL SHAFT FOR A PLANETARY GEAR

(51) International classification :F16H0057080000,  
F16C0032060000,  
F16C0033100000,  
F16C0029020000,  
F16C0037000000

(31) Priority Document No :18213080.7

(32) Priority Date :17/12/2018

(33) Name of priority country :EPO

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

(87) International Publication No : NA

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

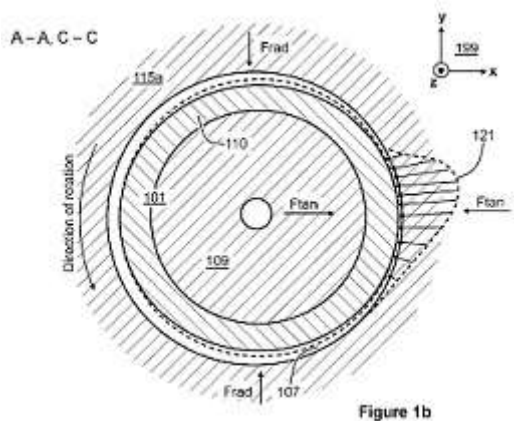
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Moventas Gears Oy**  
Address of Applicant :P.O. Box 158 / Etelportintie 91 FI-40701 JYV,,SKYL,, Finland Finland

(72)Name of Inventor :  
**1)KONTINEN Tuomo**

(57) Abstract :

A planet wheel shaft (101) comprises a bearing portion for acting as a slide-bearing in cooperation with a planet wheel (115a) of a planetary gear. On at least one axial region of the bearing portion, a cross-sectional shape deviates from a circular shape so that the bearing portion is thicker in a first direction (x) than in a second direction (y) perpendicular to the first direction. The deviation from the circular shape widens a wedge-shaped gap (107) that is between the bearing portion and the planet wheel when there is load in the first direction. This facilitates oil supply to an area where hydrodynamic oil pressure is formed for carrying load in the first direction because the widening the wedge-shaped gap compensates for narrowing the gap due to ovalization of the planet wheel caused by load in the second direction. Figure of Abstract : Figure 1b



No. of Pages : 24 No. of Claims : 17



(54) Title of the invention : FIREARM CONTROLLED BY USER BEHAVIOR

(51) International classification :A61B0005000000,  
G06F0003160000,  
G06F0021310000,  
G06F0003034600,  
G06Q0030060000

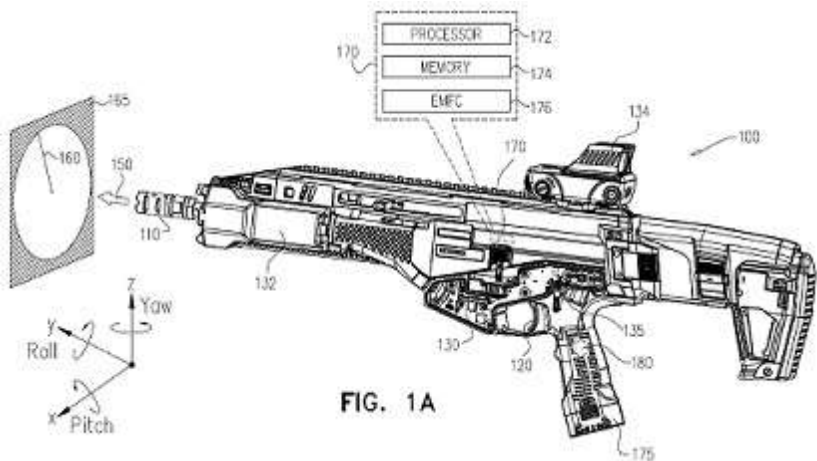
(31) Priority Document No :263603  
(32) Priority Date :09/12/2018  
(33) Name of priority country :Israel  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ISRAEL WEAPON INDUSTRIES (I.W.I) LTD.**  
Address of Applicant :64 Sderot Bialik Street, P.O. Box 63,  
Ramat HaSharon, 47100, Israel Israel

(72)Name of Inventor :  
**1)Oren ITZHAKIAN**  
**2)Aviram SOBOL**  
**3)Zeev SHNEORSON**  
**4)Naor SAGY**

(57) Abstract :

A method of controlling the release of bullets from a firearm by user behavior, including monitoring the spatial orientation of a virtual vector representing the orientation of a barrel of the firearm by receiving measurements from sensors installed in or on the firearm, engaging a trigger of the firearm to release a first bullet to a first direction, while the trigger is engaged continuously analyzing the measurements to identify preconfigured motion patterns, releasing bullets automatically responsive to identifying the preconfigured motion patterns, wherein the preconfigured motion patterns include identifying that the user is stabilizing the firearm toward a target that is in a direction that is distinct from the first direction.



No. of Pages : 43 No. of Claims : 24

(54) Title of the invention : ELECTRONIC CIRCUIT BREAKER WITH PHYSICAL OPEN-CONTACT CONSTRUCTION AND FAIL-SAFE PROTECTION WITH DISABLING FEATURE

(51) International classification :H01H0071020000,  
H01H0071520000,  
H01H0083040000,  
H01H0071040000,  
H01H0071120000

(31) Priority Document No :16/281,560  
(32) Priority Date :21/02/2019  
(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)Richard W. Sorenson**  
Address of Applicant :2727 Aqua Vista Blvd., Ft. Lauderdale,  
FL 33301, United States U.S.A.  
(72)Name of Inventor :  
**1)Richard W. Sorenson**

(57) Abstract :

A circuit breaker includes contacts movable between a closed position wherein a line terminal and a load terminal are in electrical communication, and an open position wherein the line and the load terminals are electrically isolated. A primary trip coil and a secondary trip coil are connected to the contacts, each causing the contacts to move from the closed position to the open position when activated, thereby tripping the breaker. A monitoring circuit, upon a determination being made that the breaker is not operating within acceptable trip parameters, causes activation of the primary trip coil, and, upon a determination being made that the breaker is not operating within acceptable disable parameters, causes activation of the secondary trip coil. The breaker is user resettable if the breaker has been tripped by the primary trip coil, but is not user resettable if the breaker has been tripped by the secondary trip coil.

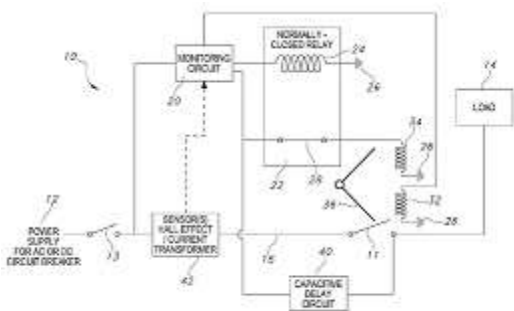


FIG. 1

No. of Pages : 42 No. of Claims : 24

(54) Title of the invention : LOW PHOSPHORUS, ZIRCONIUM MICRO-ALLOYED, FRACTURE RESISTANT STEEL ALLOYS

(51) International classification :C22C0038040000,  
C22C0033020000,  
C22C0038020000,  
C22C0019050000,  
C22C0038460000

(31) Priority Document No :62/777,464

(32) Priority Date :10/12/2018

(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

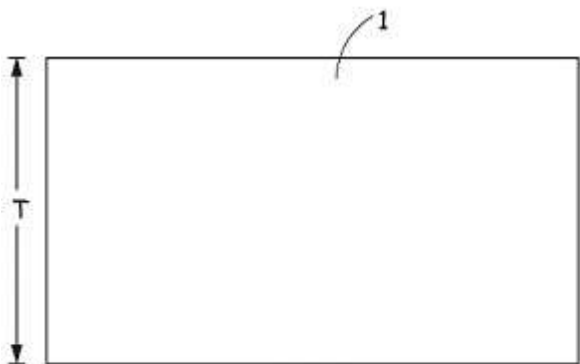
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)A. FINKL & SONS CO.**  
Address of Applicant :1355 E. 93rd St., Chicago, Illinois,  
60619, USA U.S.A.

(72)Name of Inventor :  
**1)UNDERYS, Algirdas Antanas**  
**2)RITCHEY, Benjamin Winfield**  
**3)ADAMSON, Jesse Pope**

(57) Abstract :

A steel alloy composition is disclosed. The steel alloy composition may comprise 0.36% to 0.60% by weight carbon, 0.30% to 0.70% by weight manganese, between 0.001% to 0.017% by weight phosphorus, 0.15% to 0.60% by weight silicon, and 1.40% to 2.25% by weight nickel. The steel alloy composition may further comprise 0.85% to 1.60% by weight chromium, 0.70% to 1.10% by weight molybdenum, 0.010% to 0.030% by weight aluminum, 0.001% to 0.050% by weight zirconium, and a balance of iron.



**FIG. 1**

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

(54) Title of the invention : SMART SINK

(51) International classification :E03C0001180000,  
A61H0023020000,  
B01D0021000000,  
A47B0077020000,  
G01N0015140000

(31) Priority Document No :62/784,011

(32) Priority Date :21/12/2018

(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)Kohler Co.**  
Address of Applicant :444 Highland Drive, Kohler, WI 53044,  
U.S.A. U.S.A.

(72)Name of Inventor :  
**1)Niels J. Eilmus**  
**2)Rafael A. Rexach**  
**3)Kristin S. Morehouse**  
**4)Steven F. Ellingsen**

(57) Abstract :

Disclosed is a sink assembly including a basin, an apron, and an apron module. The basin includes a floor and a plurality of sidewalls extending upwardly from the floor. The floor and the plurality of sidewalls together define a reservoir configured to receive fluid therein. The apron module is disposed within the volume and includes an audio system. The apron module may be sized to be fully received within the volume.

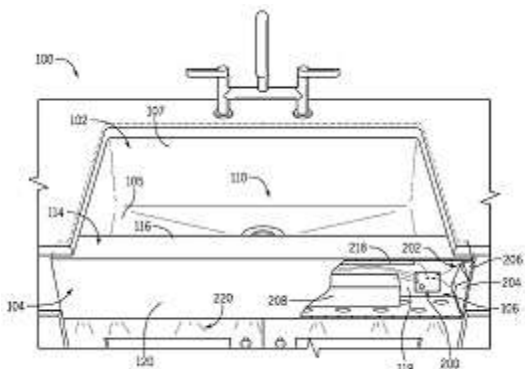


FIG. 1

No. of Pages : 41 No. of Claims : 20

(54) Title of the invention : FLUSHING ASSEMBLY, WATER SUPPLY ASSEMBLY, LOWER POSITION WATER SUCTION ASSEMBLY, WATER TANK, CHECK VALVE FOR USE IN A TOILET, AND METHOD, DEVICE, AND STORAGE MEDIUM FOR CONTROLLING TOILET WATER CONSUMPTION

(51) International classification	:B67D0001000000, E03D0011060000, F24F0006000000, F25D0023120000, E03D0005000000	(71)Name of Applicant : <b>1)Shanghai Kohler Electronics, Ltd.</b> Address of Applicant :No. 1955, Fengxiang Road, Baoshan District, Shanghai 200444, China China
(31) Priority Document No	:201822231206.1	(72)Name of Inventor : <b>1)SUN, Junfeng</b>
(32) Priority Date	:28/12/2018	<b>2)ZANG, Yunqing</b>
(33) Name of priority country	:China	<b>3)XU, Minggao</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 :

The present disclosure provides a water supply assembly of a toilet comprising a water input pipe, a water tank, a water suction pump and a water output pipe; wherein the water input pipe is connected to the water tank; clean water enters the water tank through the water input pipe; the water tank is connected to the water suction pump connected to the water output pipe; the water suction pump pumps the clean water inside the water tank into the water output pipe; the water tank comprises a main water tank portion, an auxiliary water tank portion, and a water equalizing pipe connecting between and through the main water tank and the auxiliary water tank. The present disclosure provides a flushing assembly, a water suction assembly, and a check valve for use in the toilet. The present disclosure provides a method, device, and storage for controlling toilet water consumption.

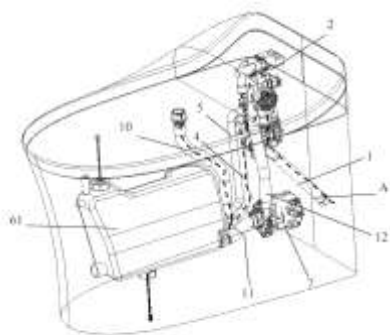


FIG. 1

No. of Pages : 121 No. of Claims : 20

(54) Title of the invention : MUFFLER PACKAGE VALVE AND VEHICLE MUFFLER COMPRISING SAME

(51) International classification :F01N0001080000,  
 F01N0001160000,  
 F16K0001200000,  
 F16K0003080000,  
 F04B0039100000

(31) Priority Document No :201920003047.1

(32) Priority Date :02/01/2019

(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)FAURECIA EMISSION CONTROL TECHNOLOGIES (SHANGHAI) CO., LTD**  
 Address of Applicant :No. 3 Building, South Area, NO. 333 Zhu Jian Road, Min Hang District, SHANGHAI, 201107, China  
 China

(72)Name of Inventor :  
**1)LIU, Shaoqian**

(57) Abstract :

The invention provides a muffler package valve and a vehicle muffler comprising same. The muffler package valve comprises a valve seat, a valve plate and a leaf spring. Two side portions of an end of the valve plate are rotationally hinged to two side portions of an end of the valve seat. The end of the valve seat is provided with a raised portion projecting upward, and a gap is formed between the raised portion and the valve seat. One end of the leaf spring is fixed to a bottom end of the raised portion through the gap, and the other end of the leaf spring is fixed to an upper end face of the valve plate. The muffler package valve and the vehicle muffler comprising same of the invention utilize a leaf spring of a semi-circular structure and use the raised portion of the valve seat itself as a rotary hinge, thus omitting an additional rotating shaft, and the spring is connected to the valve plate and the valve seat via riveting connection, which results in a simple structure and easy operation with fewer parts and lower costs.

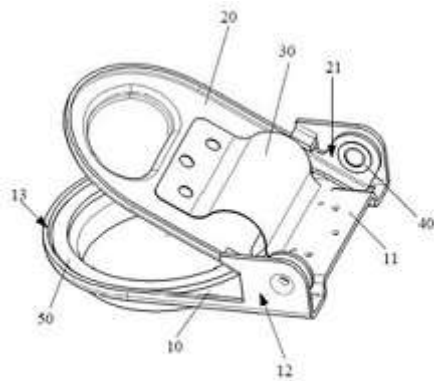


Fig. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201927052697 A

(19) INDIA

(22) Date of filing of Application :18/12/2019

(43) Publication Date : 09/10/2020

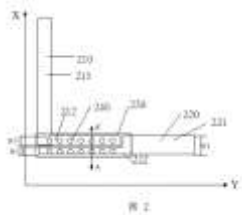
(54) Title of the invention : ARRAY SUBSTRATE, DISPLAY PANEL, AND DISPLAY DEVICE

(51) International classification :G02F 1/1362  
(31) Priority Document No :201820712571.1  
(32) Priority Date :14/05/2018  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2019/081588  
Filing Date :04/04/2019  
(87) International Publication No :WO 2019/218799  
(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)BOE TECHNOLOGY GROUP CO., LTD.**  
Address of Applicant :No. 10 Jiuxianqiao Rd., Chaoyang District Beijing China  
**2)BEIJING BOE TECHNOLOGY DEVELOPMENT CO., LTD.**  
(72)Name of Inventor :  
**1)LI, Pan**  
**2)QIAO, Yong**

(57) Abstract :

Embodiments disclosed in the present invention provide an array substrate, a display panel, and a display device. The array substrate comprises: a first signal line, the first signal line comprising a first extension portion along a first direction and a first connection portion along a second direction, and the first connection portion being provided with a via hole; a second signal line, the second signal line comprising a second extension portion and a second connection portion along the second direction, and the second connection portion being provided with the via hole; and a conductive connection layer, configured to connect the first signal line and the second signal line by means of the via hole of the first connection portion and the via hole of the second connection portion. The first connection portion and the second connection portion are arranged in a direction perpendicular to the second direction.



No. of Pages : 15 No. of Claims : 20

(54) Title of the invention : OPTICAL ELEMENT DRIVING MECHANISM

(51) International classification :A61B0017068000,  
G02B0007020000,  
G02B0026080000,  
G02B0007090000,  
B25J0011000000

(31) Priority Document No :62/799,886

(32) Priority Date :01/02/2019

(33) Name of priority country :U.S.A.

(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)TDK TAIWAN CORP.**  
Address of Applicant :No.159, Sec. 1, Zhong Shan N. Rd.,  
Yangmei Dist., Taoyuan City 326, Taiwan

(72)Name of Inventor :  
**1)Chao-Hsi WANG**  
**2)Chao-Chang HU**  
**3)Chih-Wei WENG**  
**4)He-Ling CHANG**

(57) Abstract :

A driving mechanism for an optical element is provided, including a fixed portion, a movable portion, a first driving assembly, and a positioning assembly. The movable portion is movably disposed on the fixed portion, and includes an optical element. The first driving assembly is at least partially disposed on the fixed portion, and drives the optical element to move in a first direction. The positioning assembly is disposed on the fixed portion or the movable portion, wherein the positioning assembly limits the movable part to a first terminal position or a second terminal position relative to the fixed portion.

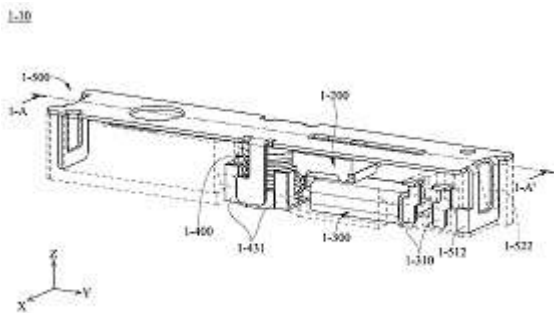


FIG. 1

No. of Pages : 229 No. of Claims : 20



(54) Title of the invention : TRANSMISSION CLUTCH BRAKING CONTROL SYSTEM

(51) International classification :B60W0010060000,  
F16D0048060000,  
B60W0020100000,  
B60W0010103000,  
B60W0030182000

(31) Priority Document No :16/371598  
(32) Priority Date :01/04/2019  
(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)DEERE & COMPANY**  
Address of Applicant :ONE JOHN DEERE PLACE,  
MOLINE, ILLINOIS, U.S.A., PIN CODE: 61265 U.S.A.  
(72)Name of Inventor :  
**1)KYLE K. MCKINZIE**  
**2)CLAYTON G. JANASEK**

(57) Abstract :

A control system operates a power train of a work vehicle. The system includes a transmission arrangement which transfers power from an engine to an output shaft of the vehicle to drive the vehicle in a first or second direction according to at least one forward or reverse modes. The arrangement includes a forward directional clutch and a reverse directional clutch, and a controller. The controller is configured to determine if one of the clutches is engaged; evaluate a speed of the engine; and provide a torque command to engage the other of the clutches to slow the speed of the engine when a shuttle shift is initiated, or when the speed of the engine exceeds a predetermined speed threshold.

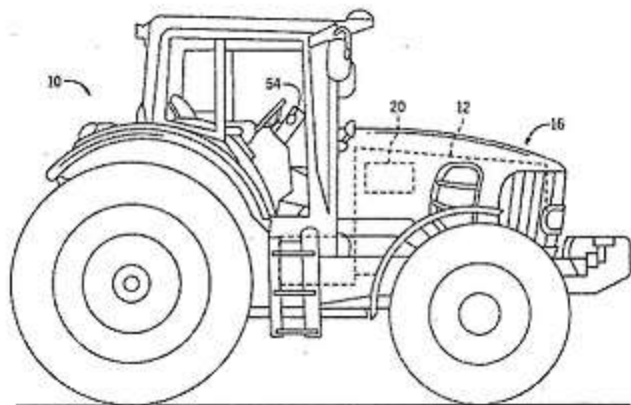


FIG. 1

No. of Pages : 51 No. of Claims : 20

(54) Title of the invention : WINDING ROLLER WITH SPEED MEASURING UNIT AND TEXTILE MACHINE USING THE SAME

(51) International classification	:H04N0019105000, H05B0037020000, H04L0029080000, A61Q0017040000, G06K0015020000	(71)Name of Applicant : <b>1)SAURER (JIANGSU) TEXTILE MACHINERY CO. LTD.</b> Address of Applicant :NO. 9 CHANG YANG STREET, SUZHOU INDUSTRIAL PARK, SUZHOU 215024 JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:201910147777.3	(72)Name of Inventor :
(32) Priority Date	:27/02/2019	<b>1)WU, Yunfeng</b>
(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 :

The present invention provides a winding roller and a textile machine using the same. The winding roller comprises a fixed shaft, a bearing mounted on the fixed shaft, a drum casing disposed to sleeve the bearing, end caps at both ends of the drum casing to close the drum casing, a motor stator fixed on the fixed shaft, and an annular driving magnetic ring disposed on an inner wall of the drum casing at a position corresponding to the motor stator, a motor speed measuring unit is disposed inside a winding roller motor. The winding roller of the textile machine of the present invention is a winding roller motor formed by a drum casing having a built-in motor; the yarn bobbin at each station is separately driven by such winding roller having the built-in motor; while the winding roller motor has a built-in speed measuring unit with a simple structure and capable of monitoring the rotation speed of the winding roller in real time, which is convenient for adjusting and controlling the winding tension of the yarn bobbin and ensuring the quality of the yarns.

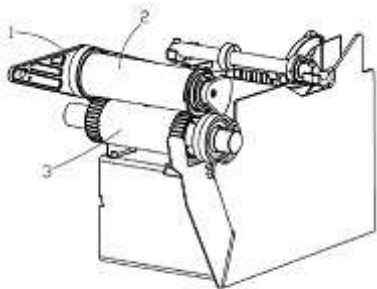


Fig. 1

No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : METHOD AND APPARATUS FOR PROVIDING A DRUMSTICK FROM A POULTRY<sup>TM</sup>S LEG

(51) International classification	:A22C0021000000, G10D0013000000, A61F0002380000, A61B0017020000, H04W0080040000	(71)Name of Applicant : <b>1)Meyn Food Processing Technology B.V.</b> Address of Applicant :Westeinde 6, 1511 MA OOSTZAAN, the Netherlands. Netherlands
(31) Priority Document No	:2022804	(72)Name of Inventor : <b>1)VAN HILLO, Eric Adriaan</b>
(32) Priority Date	:25/03/2019	
(33) Name of priority country	:Netherlands	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method and apparatus for providing a drumstick from a poultry<sup>TM</sup>s leg suspended by the ankles in hooks of a carrier, wherein said poultry<sup>TM</sup>s leg comprises said drumstick, a knee joint, and a thighbone from which the thighbone meat has been or has to be removed, said apparatus comprising a clamp and said method comprising the step of clamping the poultry<sup>TM</sup>s leg with the clamp and arranging that the poultry<sup>TM</sup>s leg is kept in position, followed by the step of cutting the ligaments between the drumstick and the thighbone for removal of the thighbone and providing the drumstick, wherein the step of clamping the poultry<sup>TM</sup>s leg is followed by raising the clamp with the poultry<sup>TM</sup>s leg so as to raise the ankles from the hooks of the carrier and arrange that the knee joint is positioned at a predetermined altitude, and by providing that a cutter is positioned at said predetermined altitude and is activated to cut through the knee joint so as to separate the thighbone from the drumstick.

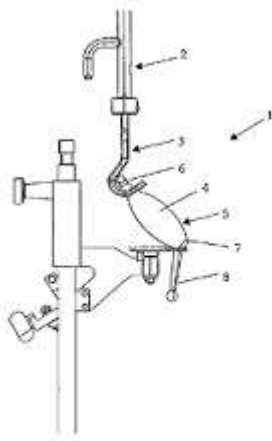


Fig. 1A

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

(54) Title of the invention : DISPLAY DEVICE HAVING BIOMETRIC SENSORS

(51) International classification :G06F0003041000,  
G06F0003044000,  
G11C0019180000,  
H01L0027120000,  
G09G0003200000

(31) Priority Document No :16/371,149  
(32) Priority Date :01/04/2019  
(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)InnoLux Corporation**  
Address of Applicant :No. 160 Kesyue Rd., Jhu-Nan Site,  
Hsinchu Science Park, Jhu-Nan 350, Miao-Li County, Taiwan,  
(72)Name of Inventor :  
**1)Chandra LIUS**  
**2)Kuan-Feng LEE**

(57) Abstract :

A display device has a display region and a side region adjacent to the display region and includes a plurality of display units, a plurality of sensing units, a display driver and a sensor driver. The plurality of display units and the plurality of sensing units are disposed in the display region. The display driver is coupled to at least a portion of the plurality of display units, and includes a plurality of first thin-film transistors having a first channel layer. The sensor driver is coupled to at least a portion of the plurality of sensing units, and includes a plurality of second thin-film transistors having a second channel layer. At least a portion of the plurality of first thin-film transistors and at least a portion of the plurality of second thin-film transistors are disposed in the side region.

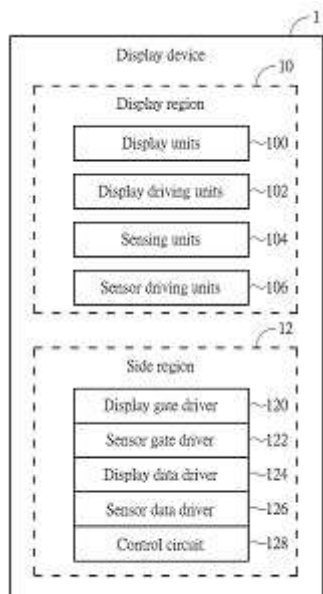


FIG. 1

No. of Pages : 35 No. of Claims : 20

(54) Title of the invention : APPARATUS AND METHOD FOR SEABED RESOURCES COLLECTION

(51) International classification :E21C0050000000,  
A61B0010020000,  
H04W0072100000,  
G06F0003140000,  
E02F0005000000

(31) Priority Document No :10201902911Y

(32) Priority Date :01/04/2019

(33) Name of priority country :Singapore

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

(87) 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)KEPPEL MARINE & DEEPWATER TECHNOLOGY PTE LTD**  
Address of Applicant :50 Gul Road, KOM Tower, Level 5, Singapore 629351, Singapore Singapore

(72)Name of Inventor :  
**1)HUSSAIN, Anis**  
**2)MERCHANT, Aziz**

(57) Abstract :

Embodiments of the invention provide apparatus and method for seabed resources collection. The apparatus comprises a main module and a plurality of seabed resources collecting devices releasably attached to the main module, wherein the main module and the plurality of collecting devices are configured to be launched from a surface vessel towards a seabed; the main module includes a control module which is configured to determine a mining path for each of the collecting devices based on characteristics of the seabed, control each of the collecting devices to collect seabed resources along the determined mining path and control transfer of the seabed resources collected by the collecting devices, wherein each collecting device is configured to be released from the main module after the apparatus is launched, and to collect seabed resources along the mining path determined by the main module after being released.

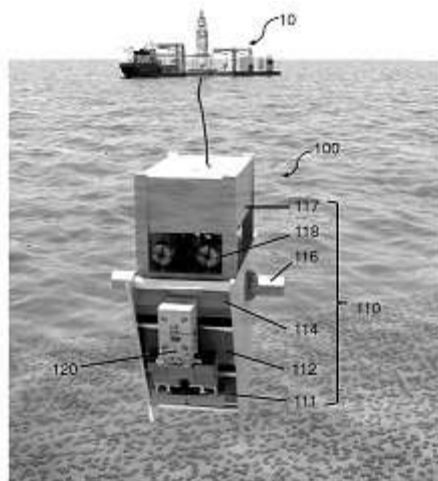


Figure 1A

No. of Pages : 61 No. of Claims : 38

(54) Title of the invention : LIGHT-EMITTING DEVICES AND METHODS FOR MANUFACTURING THE SAME

(51) International classification :H01L0025075000,  
H01L0033620000,  
H01L0051520000,  
F21V0029770000,  
G02F0001133500

(31) Priority Document No :16/377,415

(32) Priority Date :08/04/2019

(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)InnoLux Corporation**  
Address of Applicant :No. 160 Kesyue Rd., Jhu-Nan Site,  
Hsinchu Science Park, Jhu-Nan 350, Miao-Li County, Taiwan

(72)Name of Inventor :  
**1)Jia-Yuan CHEN**  
**2)Tsung-Han TSAI**  
**3)Kuan-Feng LEE**  
**4)Yuan-Lin WU**

(57) Abstract :

A light-emitting device is provided. The light-emitting device includes a first substrate. The light-emitting device also includes a second substrate including a light-shielding structure. The light-emitting device further includes a first light-emitting module and a second light-emitting module being adjacent to each other. The first light-emitting module and the second light-emitting module are disposed between the first substrate and the second substrate. The first light-emitting module and the second light-emitting module are spaced apart by a gap, and the light-shielding structure at least partially covers the gap in a top view direction of the light-emitting device.

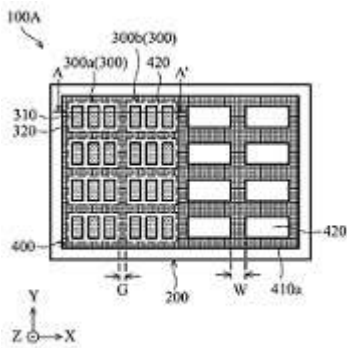


FIG. 1A

No. of Pages : 44 No. of Claims : 20

(54) Title of the invention : VOICE BASED SEARCH FOR DIGITAL CONTENT IN A NETWORK

(51) International classification :G06F 16/783, G06F 16/73, H04N 21/472, G06F 16/74, G10L 15/16

(31) Priority Document No :15/973447

(32) Priority Date :07/05/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2019/026345  
Filing Date :08/04/2019

(87) International Publication No :WO 2019/217018

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

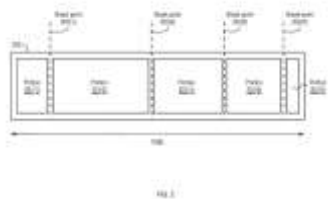
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)GOOGLE LLC**  
 Address of Applicant :1600 Amphitheatre Parkway Mountain View, California 94043 U.S.A.

(72)**Name of Inventor :**  
**1)LOGHMANI, Masoud**  
**2)KOTHARI, Anshul**  
**3)DEVULAPALLI, Ananth**

(57) Abstract :

Systems and methods of the present technical solution enable a multi-modal interface for voice-based devices, such as digital assistants. The solution can enable a user to interact with video and other content through a touch interface and through voice commands. In addition to inputs such as stop and play, the present solution can also automatically generate annotations for displayed video files. From the annotations, the solution can identify one or more break points that are associated with different scenes, video portions, or how-to steps in the video. The digital assistant can receive input audio signal and parse the input audio signal to identify semantic entities within the input audio signal. The digital assistant can map the identified semantic entities to the annotations to select a portion of the video that corresponds to the users request in the input audio signal.



No. of Pages : 33 No. of Claims : 34

(54) Title of the invention : METHOD OF TRANSMITTING OR RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR

(51) International classification :H04L 5/00, H04L 1/00, H04L 27/26, H04W 72/04

(31) Priority Document No :62/653537

(32) Priority Date :05/04/2018

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/KR2019/004033  
Filing Date :05/04/2019

(87) International Publication No :WO 2019/194619

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

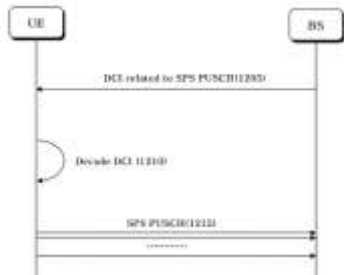
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)LG ELECTRONICS INC.**  
Address of Applicant :128, Yeoui-daero Yeongdeungpo-Gu Seoul 07336 Republic of Korea

(72)Name of Inventor :  
**1)LEE, Hyunho**  
**2)KWAK, Kyuhwan**

(57) Abstract :

A method of transmitting an uplink (UL) signal by a user equipment (UE) in a wireless communication system, where the method includes: receiving, through a physical downlink control (PDCCH) signal, downlink control information (DCI) regarding a semi-persistent scheduling (SPS) physical uplink shared channel (PUSCH); and periodically transmitting an SPS PUSCH signal based on the DCI. Periodically transmitting the SPS PUSCH signal based on the DCI includes: in a state in which (i) the SPS PUSCH signal is subslot-based, (ii) a demodulation reference signal (DMRS) pattern field included in the DCI is set to a first value, and (iii) simultaneous transmission of a physical uplink control channel (PUCCH) and the PUSCH is configured for the UE: transmitting uplink control information (UCI) through the SPS PUSCH signal, without simultaneously transmitting a PUCCH signal.



No. of Pages : 44 No. of Claims : 14

**CONTINUED TO PART- 2**



**पेटेंट कार्यालय  
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**दिनांक: 18/11/2016**

**DATE: 18/11/2016**

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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 01<sup>st</sup> 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.

**( Om Prakash Gupta )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

18<sup>TH</sup> NOVEMBER, 2016

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REGISTRATION OF DESIGNS	: 74109 – 74156

# THE PATENT OFFICE

KOLKATA, 18/11/2016

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1 Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai - 400 037  Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: <a href="mailto:cgpdtm@nic.in">cgpdtm@nic.in</a>	4 The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.  Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: <a href="mailto:chennai-patent@nic.in">chennai-patent@nic.in</a> ❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.
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3 The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075 Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: <a href="mailto:delhi-patent@nic.in">delhi-patent@nic.in</a> ❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.	❖ Rest of India

Website: [www.ipindia.nic.in](http://www.ipindia.nic.in)

[www.patentoffice.nic.in](http://www.patentoffice.nic.in)

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कोलकाता, दिनांक 18/11/2016

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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: cgpdtm@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 ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर 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](http://www.patentoffice.nic.in)

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएँ, 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।

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**(Om Prakash Gupta)**  
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(54) Title of the invention : A NOVEL BIOCONJUGATE OF IRON

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(51) International classification	:A61K 31/00	(71) <b>Name of Applicant :</b> <b>1)RENTALA, Satyanarayana</b> Address of Applicant :Department of Biotechnology, Institute of Technology, GITAM University, Visakhapatnam 530 045, Andhra Pradesh, India. Andhra Pradesh India
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(57) Abstract :

The invention discloses a novel bioconjugate of Iron to increase the bioavailability of Iron. More particularly, the invention discloses bioconjugate of Iron with piperine and process for manufacturing thereof.

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