

**पेटेंट कार्यालय  
शासकीय जर्नल**

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

---

---

**निर्गमन सं. 48/2018**

**ISSUE NO. 48/2018**

**शुक्रवार**

**FRIDAY**

**दिनांक: 30/11/2018**

**DATE: 30/11/2018**

---

---

**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**

**30<sup>th</sup> NOVEMBER, 2018**

## **CONTENTS**

<i><b>SUBJECT</b></i>	<i><b>PAGE NUMBER</b></i>
<b>JURISDICTION</b>	<b>: 45115 – 45116</b>
<b>SPECIAL NOTICE</b>	<b>: 45117 – 45118</b>
<b>EARLY PUBLICATION (DELHI)</b>	<b>: 45119 – 45150</b>
<b>EARLY PUBLICATION (MUMBAI)</b>	<b>: 45151 – 45179</b>
<b>EARLY PUBLICATION (CHENNAI)</b>	<b>: 45180 – 45222</b>
<b>EARLY PUBLICATION ( KOLKATA)</b>	<b>: 45223 – 45228</b>
<b>PUBLICATION AFTER 18 MONTHS (DELHI)</b>	<b>: 45229 – 45621</b>
<b>PUBLICATION AFTER 18 MONTHS (MUMBAI)</b>	<b>: 45622 – 45678</b>
<b>PUBLICATION AFTER 18 MONTHS (CHENNAI)</b>	<b>: 45679 – 45857</b>
<b>PUBLICATION AFTER 18 MONTHS (KOLKATA)</b>	<b>: 45858 – 45884</b>
<b>WEEKLY ISSUED FER (DELHI)</b>	<b>: 45885 – 45917</b>
<b>WEEKLY ISSUED FER (MUMBAI)</b>	<b>: 45918 – 45929</b>
<b>WEEKLY ISSUED FER (CHENNAI)</b>	<b>: 45930 – 45958</b>
<b>WEEKLY ISSUED FER (KOLKATA)</b>	<b>: 45959 – 45972</b>
<b>PUBLICATION U/S 61(1) RULE 84(3)(DELHI) [APPLICATION(S) FOR RESTORATION OF LAPSED PATENT(S)]</b>	<b>: 45973</b>
<b>PUBLICATION U/S.60 IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS ( KOLKATA)</b>	<b>: 45974</b>
<b>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)</b>	<b>: 45975 – 45989</b>
<b>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)</b>	<b>: 45990 – 45993</b>
<b>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)</b>	<b>: 45994 – 46007</b>
<b>PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)</b>	<b>: 46008 – 46014</b>
<b>INTRODUCTION TO DESIGN PUBLICATION</b>	<b>: 46015</b>
<b>THE DESIGNS ACT, 2000 SECTION 30 DESIGN ASSIGNMENT</b>	<b>: 46016</b>
<b>REGISTRATION OF DESIGNS</b>	<b>: 46017 - 46062</b>

**THE PATENT OFFICE  
KOLKATA, 30/11/2018**

**Address of the Patent Offices/Jurisdictions**

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

<p><b>1</b> 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>	<p><b>4</b> 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>
<p><b>2</b> 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>	<p><b>5</b> 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><b>3</b> 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>	<p>❖ Rest of India</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 30/11/2018

### • कार्यालयों के क्षेत्राधिकार के पते

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

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटीप हिल डाकघर के समीप, एस. एम. रोड, एंटीप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@nic.in	4	पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91)(44) 2250 2081-84 फैक्स: (91)(44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप
2	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटीप हिल डाकघर के समीप, एस. एम. रोड, एंटीप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फैक्स: (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*	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 फैक्स:/Fax: (91)(33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र
3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91)(11) 25300200, 28032253 फैक्स: (91)(11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

वेबसाइट: <http://www.ipindia.nic.in>

[www.patentoffice.nic.in](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।

## **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**

(54) Title of the invention : Scale up studies of microalgae *Chlorella rotunda* for biolipids (Biodiesel) as third generation biofuel along with value-added product using indigenously developed Photo bioreactor

(51) International classification :C12M21/02;C12P7/649;Y02E50/13;  
 (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.Kanapathy Gopalakrishnan**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560103, Karnataka, India Karnataka India

## (72)Name of Inventor :

**1)R.S.Upendra****2)Pratima Khandelwal****3)Shalini R, BE****4)Pallavi B, BE****5)Subhasmita Nayak, BE****6)Swati Jain, BE**

## (57) Abstract :

Microalgae are unicellular organisms that assimilate lipids which can be utilized for biodiesel production. Microalgae as a feedstock for biodiesel production minimizes the damages, caused to the eco system. Scanty research was documented on using Microalgae as feedstock for Biodiesel production and hybrid PBR have been meagerly researched for the cultivation of microalgae. Scanty research has been reported on tubular type PBR and the various light source tested being of less impact on the growth of microalgae. With these lacunae the present investigation aimed in designing and fabrication of a hybrid PBR (100lts) for scale-up cultivation of a newly isolated microalgae species *Chlorella rotunda* under the combination of day light/night blue light as an energy source. Study initially designed hybrid PBR of 100 ltr capacity for both batch and continuous kinetic modules, considering the different design dimensions i.e height, breadth, width, diameter of tubular column, surface area and volume. Study utilized LED as the source of artificial blue light to support the growth of microalgae. Double optimized modified Bold's Basal media (BBM) was used in the present investigation and growth kinetics of the microalgae was studied measuring the absorbance at visible range (550nm). Final lipid yield was estimated UV Spectrophotometrically. The results reported that PBR supported exponential growth compare to flask cultures, and was reported due to the provision of optimal growth conditions provided by the PBR compare to the flask cultures. The lipid yield registered {4.0 g/l} 4fold increase in PBR cultures compare to the flask cultures. The patent disclosure concludes by reporting the designed and fabricated 100ltr PBR supported for the scale-up production of microalgae.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018075 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : A METHOD TO ALERT THE USER IN CASE OF A MOBILE THEFT/UNAUTHORIZED USE

(51) International classification	:G06F21/88; H04W12/12	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. KANAPATHY GOPALAKRISHNAN</b>
(32) Priority Date	:NA	Address of Applicant :Dean (R&D), R&D Cell, New Horizon
(33) Name of priority country	:NA	College of Engineering, Ring Road, Bellandur Post, Near
(86) International Application No	:NA	Marathalli, Bangalore-560103, Karnataka, India Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)HARI KUMAR VENKATESH</b>
(61) Patent of Addition to Application Number	:NA	<b>2)KOTA REDDY LAKSHMI</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel apparatus, method and system have been proposed in this patent disclosure to alert the user in case of a mobile theft and/or unauthorized use by any other individual. The entire hardware and software system and subsystem has been defined and documented. It uses biometric data and GPS to ensure the objective successfully.

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

(54) Title of the invention : SYSTEM AND METHOD FOR EXO SKELETON FOR LOWER LIMB

<div>(51) International classification</div> <div>:A61F5/00; A61F5/01; A61H1/00</div> <div>(31) Priority Document No</div> <div>:NA</div> <div>(32) Priority Date</div> <div>:NA</div> <div>(33) Name of priority country</div> <div>:NA</div> <div>(86) International Application No</div> <div>:NA</div> <div>Filing Date</div> <div>:NA</div> <div>(87) International Publication No</div> <div>: NA</div> <div>(61) Patent of Addition to Application Number</div> <div>:NA</div> <div>Filing Date</div> <div>:NA</div> <div>(62) Divisional to Application Number</div> <div>:NA</div> <div>Filing Date</div> <div>:NA</div>	<div>(71)Name of Applicant :</div> <div><b>1)Dr. KANAPATHY GOPALAKRISHNAN</b></div> <div>Address of Applicant :Dean (R&amp;D), R&amp;D Cell, New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560 103, Karnataka, India Karnataka India</div> <div>(72)Name of Inventor :</div> <div><b>1)Dr. MANJUNATHA</b></div> <div><b>2)Dr. M S GANESHA PRASAD</b></div> <div><b>3)RAKESH C</b></div> <div><b>4)S.M.DANISH</b></div> <div><b>5)SHIVAM</b></div> <div><b>6)HARISH KUMAR YADAV</b></div> <div><b>7)ATINDER PAL SINGH</b></div> <div><b>8)PUNEETH H V</b></div> <div><b>9)BOPANNA K D</b></div> <div><b>10)NAGABHUSHANA N</b></div>
---	--

(57) Abstract :

7. ABSTRACT OF THE INVENTION Exoskeletons are defined as standalone anthropomorphic active mechanical devices that are worn by an operator and work in concert with the operators movements; Exoskeletons are mainly used to increase performance of able-bodied wearer, and to help disabled people to retrieve some motion abilities. The idea of this study is to develop a portable device capable of providing knee-joint mechanical assistance during walking without using external power from onboard actuators (i.e. an energy-neutral solution). We hypothesized that a passive wearable device using pneumatic damper during walking cycle which is capable of recycling a significant portion of knee joint mechanical work and could reduce the metabolic activity of walking. The constructional goals and features of each and every components used have been considered for its light weight, durability, portable framework without motors or an external energy source to provide an ease in gait cycle. We set out to develop a passive energy neutral system with following key design objectives: 1. Provide support to the knee joint following a pattern similar to the normal joint moment during walking. 2. Recycle damping energy provided by the pneumatic damper during the gait cycle. The subject matter described herein, includes an apparatus which is controlled by pneumatic dampers for support of lower limb exoskeleton which will aid in locomotion.

No. of Pages : 4 No. of Claims : 1

(54) Title of the invention : DUAL CAM OPERATED DRUM BRAKE

(51) International classification	:F16D51/18; F16D51/20; F16D51/48	(71)Name of Applicant : <b>1)LIKHITH SAI K S</b> Address of Applicant :#524, Shobha Building, Next To Keerthi Residency, Belthur, Kadugodi(Post), Bangalore-560067 Karnataka India
(31) Priority Document No	:NA	<b>2)SUNIL PRASHANTH KUMAR</b>
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	<b>1)LIKHITH SAI K S</b>
(86) International Application No	:NA	<b>2)SUNIL PRASHANTH 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 :

7. ABSTRACT OF THE INVENTION (to be given along with complete specification on the separate page) Dual cam drum brake is a special type of drum brake which has two cams which operates both the brake shoes to operate at the same time to get a better braking efficiency than any other drum brakes. When the rider operates the brake, firstly the cam I operates and pushes the brake shoe against the drum and as the force exerted by the driver increases, cam2 is slowly operated which pushes the other part of the brake shoe against the drum, hence more force is exerted to stop the vehicle and ultimately results in better braking efficiency than regular brake drums.

No. of Pages : 4 No. of Claims : 3

(54) Title of the invention : NOVEL METHOD FOR CONVERSION OF WASTE PLASTIC INTO FUEL

(51) International classification :C10G1/00  
 (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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon  
 College of Engineering, Ring Road, Bellandur Post, Near  
 Marathalli, Bangalore-560103, Karnataka, India Karnataka India

## (72)Name of Inventor :

**1)Dr. MANJUNATHA****2)Dr. M S GANESHA PRASAD****3)RAKESH C****4)SIDDARTH DINESH****5)MOHNISH RAJ D****6)MARKOSE****7)SANDEEP RAMESH****8)PUNEETH. H.V****9)KARTHIK****10)MEGHA SHUKLA**

## (57) Abstract :

The present rate of economic growth is unsustainable without saving of fossil energy like crude oil, natural gas, or coal. There are many alternatives to fossil energy such as biomass, hydropower, and wind energy. Also, suitable waste management strategy is another important aspect. Development and modernization have brought about a huge increase in the production of all kinds of commodities, which indirectly generate waste. Plastics have been one of the materials because of their wide range of applications due to versatility and relatively low cost. The novel method to conserve LDPE has been found significant usage in the current scenario of the plastic consumption globally. The method provides comprehensive solution with an in depth analysis regarding the recycling techniques of plastic solid waste (PSW). As calorific value of the plastics is comparable to that of fuel, so production of fuel from waste LDPE would be a better alternative. So the methods of converting plastic into fuel, specially pyrolysis and catalytic degradation, has been utilized in the proposed method followed by gasification. The proposed method is addressing the problem of plastic waste disposal and shortage of conventional fuel and thereby helps in promotion of sustainable environment.

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

(54) Title of the invention : GLASS CLEANING AUTOMATED ROBOT FOR HIGH RISE BUILDING APPLICATIONS

(51) International classification :A47L1/02  
 (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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon  
 College of Engineering, Ring Road, Bellandur Post, Near  
 Marathalli, Bangalore-560103, Karnataka, India Karnataka India

## (72)Name of Inventor :

**1)LOKESH****2)PRIYANKA SAIRAM****3)Dr. M. S. GANESHA PRASAD****4)Dr. MANJUNATHA****5)Dr. SHIRDHAR KURSE****6)Dr. BELLIE VISWANATH****7)CHETAN KUMAR. D. S****8)VEERESHA. G****9)MANJESH. B.C**

## (57) Abstract :

6. ABSTRACT The main aim of this project is to fabricate and develop prototype model of glass cleaning automated robot for high rise building application (Wall climbing robot), cleaning the outer glass walls of high rise building is always dangerous by manual method. The development of this robot offers a novel alternative solution to the glass wall cleaning. A controller is used to control all operations of the robot. It is having capability that it can stick on the vertical as well as inclined surfaces. The robot which is developed is faster, lighter, smaller and more flexible in order to clean glass surface having different building structure. An additional feature is also planned in this robot that it can also clean floors as well. The entire body of the robot is fabricated by using light weight material (electrical casing, aluminium frame etc). The robot uses side shaft geared motors to give drive to the robot, operated by 12 volt (DC) power supply. The robot can also turn left and right at an angle of 30 with the help of high torque geared motor, operated by 12 volt (DC) power supply. The robot is able to clean the glass surface by wiper, the wiper is driven by the geared motor of 12 volt (DC) power supply and it can even pour water whenever required by means of water pump on the wiper. The robot can stick to the glass surface with the help of suction cups, a 24 volt (DC) vacuum pump is used to operate suction cups. An electrically operated solenoid valves are used to control the vacuum flow to the suction cups. There are totally 12 suction cups present in the robot, at a time six suction cups comes in contact with the surface. This helps the robot to have high gripping force over the glass surface and balance.. Due to the simple mechanism the weight of the robot is reduced which in turn increases the efficiency of the robot and therefore overall power consumption is less.

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



(54) Title of the invention : DESIGN AND FABRICATION OF SOLAR POWERED BICYCLE

(51) International classification :B60L8/00  
 (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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon  
 College of Engineering, Ring Road, Bellandur Post, Near  
 Marathalli, Bangalore-560 103, Karnataka, India Karnataka India

## (72)Name of Inventor :

**1)Dr. MANJUNATHA****2)Dr. M S GANESHA PRASAD****3)BOPANNA K.D****4)JEBIN KOSHY SABU****5)DILSHAD DAVOOD****6)SHABAZ ZAHEER****7)JOBY JAMES****8)RONALD REGAN****9)RAGHU TILAK REDDY**

## (57) Abstract :

ABSTRACT OF THE INVENTION As we all know the fuel prices especially the petrol is rising steadily day by day. Again the pollution due to vehicles in metro cities & urban areas is increasing continuously. To overcome these problems, an effort is being made to search some other alternative sources of energy for the vehicles. Again, it is also not affordable to purchase vehicles (mopeds, scooters or motorcycles) for all the class of society. Keeping this in mind, a search for some way to cater these economically poor people as well as to provide a solution for the environmental pollution was in progress. The solar assisted bicycle developed is driven by DC motor fitted in front or rear axle housing & operated by solar energy. The solar panels mounted on the carriage will charge the battery & which in turn drive the hub motor. When the bicycle is idle, the solar panel will charge the battery. This arrangement will replace the petrol engine, the gear box & the fuel tank in case of a two wheeler or a chain sprocket, chain & gear shifting arrangement of a conventional bicycle being used by most common man.

No. of Pages : 4 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018082 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : COMBINED SOLAR AND WIND ENERGY WATER PUMPING SYSTEM

(51) International classification :F03D9/00;F03G6/06;  
(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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon  
College of Engineering, Ring Road, Bellandur Post, Near  
Marathalli, Bangalore-560103 Karnataka India

(72)Name of Inventor :

**1)Dr.MANJUNATHA**

**2)Dr.M.S.GANESHA PRASAD**

**3)SHIVAPRAKASH.S**

**4)FRANCIS EVANS**

**5)KUMAR ANKIT**

**6)S.VISHANTH**

**7)HANAMANTH.Y**

**8)RAJESH.A**

**9)KAMALASHISH DEB**

**10)DEEPTI**

(57) Abstract :

6. ABSTRACT In present days we need more and more power for driving instruments. In this invention we pump water where pump is operated by using solar cell and wind power, sola, cell generates the power using sun m energy and dynamo will generates power using wind energy. Combining these energy forms we develop XbrZwer generator. To avoid the power problem in our country the hybrid power generator^are used ,o enerate Power throughout the day and night. The solar power will produce voltage during day when sun light s v bleThe wind mill generates voltage during day and nigh, time when wind is available. Scar and w,nd o« Led water pumping system is used to pump the water in remote ptace where the electric wer. nc^vaLe. it is a renewable energy technique where no cost for the electnc. The MMM) elecWcal power systems is a key element of many curricula in Industrial Technology. The set-up conss fa ohoto-Toltaic sola -cell array, a mast mounted wind generator, lead-acid storage battenes, an rnverter un to «e DC power ,o AC plr, electrical lighftng loads and electrical heating loads, several fuse and ,nc tees and associated wiring, and test instruments for measuring voltages, currents, power factor , and n^rcontamination data throughout the system. This hybrU solar-wind power generatrng system » used to illustrate electrical concepts in hands-on laboratories and demonstrate ,n the Industna, Technology curriculum.

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

(54) Title of the invention : MULLITE CERAMIC COATING ON CAST ALUMINIUM PISTONS AND CYLINDER HEADS FOR IC ENGINE APPLICATIONS

(51) International classification :F02F3/28;F02B23/06;  
 (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.KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean(R&D), R&D Cell, New Horizon  
 College Of Engineering, Ring Road, Bellandur Post, Marathalli,  
 Bangalore-560103 Karnataka India

**(72)Name of Inventor :****1)Dr.BELLIE VISWANATH****2)Dr.M.S.GANESHA PRASAD****3)Dr.MANJUNATHA****4)NAGABHUSHANA.N****5)RAVIKUMAR.M****6)NAGENDRA****7)SRINATH.M.K****8)KEMPARAJU****(57) Abstract :**

Many benefits like good mechanical strength, corrosion resistance, wear resistance and thermal shock resistance do not occur simultaneously and hence the pursuit for better materials always exist. The changing needs of our society demands new materials with enhanced properties to cater to specific needs, due to the limitations of the conventional materials. Increasing demand is there for requirements such as light weight structures and materials (for example aluminum), combined with higher durability, for aircraft and automobile applications. Engine components used in the automobile and the aerospace sectors, where light weight is a necessity, are exposed to high temperatures in the range of 600°C to 900°C, which also demand a good structural strength, wear resistance and corrosion resistance. Such pressing needs demand high strength but light weight structural parts with good surface properties. A parallel development is also taking place in the field of surface engineering to enhance the tribological properties of materials. This present work involves development of duplex mullite coatings on cast aluminum and characterization of mechanical, thermal, wear and corrosion resistance properties and microstructure of the duplex mullite coatings on cast aluminum. Then this duplex mullite coating is applied on piston and cylinder head of a petrol engine using air plasma spraying; performance testing of the engine is carried out with and without coated components, for comparison.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018084 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : BREAKING HEAD ATTACHMENT FOR CONDUCTING BOND STRENGTH TEST

(51) International classification :G01N3/24;G01N3/08;G01N19/04

(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.KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean(R&D), R&D Cell, New Horizon  
College of Engineering, Ring Road, Bellandur Post, Near  
Marathalli, Bangalore-560103 Karnataka India

(72)Name of Inventor :

**1)SATISH D**

(57) Abstract :

The breaking head of this invention is to provide test attachment for measuring bond strength between Hot Mix Asphalt (HMA) and Cement Concrete (CC) composite by direct shear using Universal Testing Machine. In the current state of the art, testing instrument for direct shear of soil and stone exists. The existing instruments though work with similar concept, these are standalone instruments and the applied force for testing is either too low or too high respectively, the instruments in existing state of art does not allow measuring the surface bond between above mentioned composite. Hence there is a need to develop an attachment to measure interfacial bond strength which is compatible to already existing Universal Testing Machine. This attachment consists of two cylinders with welded handles to fix in UTM, guiding bar to ensure the vertical movement of two cylinders in opposite direction during the application of load.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018085 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : DESIGN AND FABRICATION OF AUTONOMOUS LUBRICATION OF CHAIN

(51) International classification

:B65G45/08;  
B66C23/70;

(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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon  
College Of Engineering, Ring Road, Bellandur Post, Near  
Marathalli, Bangalore-560 103, Karnataka, India Karnataka India

(72)Name of Inventor :

**1)Dr. MANJUNATHA**

**2)Dr. M S GANESHA PRASAD**

**3)RAKESH C**

**4)VIKAS KUMAR**

**5)UTKARSH SINGH**

**6)PAPPU SAHA**

**7)SARAOJ KUMAR**

**8)DR. SHIRDHAR KURSE**

**9)PUNEETH H.V**

**10)BOPANNA K.D**

(57) Abstract :

Automated chain lubrication systems provide an exact metered quantity of lubricant and apply it reliably to the chain where it is required. Despite new types of material and advanced technology, many chains still require lubrication. Optimum lubrication reduces friction and subsequent wear on chains. The, largest relative movement of all chains occurs between the link plate and the chain stud, and it is here where considerable forces are present. Insufficient lubrication of this area will result in premature wear and chain failure. The consequence is expensive production downtime. Precise and efficient lubrication is a prerequisite for trouble-free operation and long life of the chain. Modern automated chain lubrication systems apply precisely metered quantities of lubricant to the chain, exactly where it is needed while the chain is in operation. Proper metering keeps the lubricant quantity to a minimum, yet ensures sufficient amounts, thus reducing the impact on your budget and of course the environment. It minimizes chain wear and noise levels. The life span of chains can often be increased by ten times and more.

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

(54) Title of the invention : DESIGN AND DEVELOPMENT OF ELECTRIC POWERLESS REFRIGERATOR

(51) International classification :F25D3/08;  
 (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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dean (R&D), R&D Cell, New Horizon  
 College of Engineering, Ring Road, Bellandur Post, Near  
 Marathalli, Banqalore-560103, Karnataka, India Karnataka India

## (72)Name of Inventor :

**1)Dr. MANJUNATHA****2)Dr. M S GANESHA PRASAD****3)RONALD R REAGON****4)ARSHAD AYUB****5)KHAISER AHMED****6)MOHAMMED SUFIYAN S****7)ABDUL SAMADH M.N****8)LOHITH N****9)MADHUSUDHAN****10)SANTHOSH**

## (57) Abstract :

Refrigeration may be defined as the process of achieving and maintaining a temperature below that of the surroundings, the aim being to cool some product or space to the required temperature. One of the most important applications of refrigeration has been the preservation of perishable food products by storing them at low temperatures. In the present work, a refrigeration system is designed which works by passively drawing in warm ambient air through the converging nozzle, which is fed into an aluminum pipe that's been buried underground. This already starts to cool down the air before it's fed into coiled copper pipe that's been placed above the water in the evaporation chamber. The evaporation process is helped along by a small, solar-powered fan. The water evaporating around pipe chills the air inside and this is then fed back underground before entering the refrigeration chamber.

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

## (54) Title of the invention : MULTI PURPOSE AGRICULTURAL ROBOT

(51) International classification	:A01D57/00; A01D69/06	(71)Name of Applicant : <b>1)Dr. KANAPATHY GOPALAKRISHNAN</b> Address of Applicant :Dean (R&D), R&D Cell, New Horizon College of Engineering, Ring Road, Bellandur Post,Near Marathalli, Bangalore-560 103, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. MANJUNATHA</b>
(33) Name of priority country	:NA	<b>2)Dr. M S GANESHA PRASAD</b>
(86) International Application No	:NA	<b>3)SHIVAPRAKASH. S</b>
Filing Date	:NA	<b>4)CHETAN KUMAR S TARIHAL</b>
(87) International Publication No	: NA	<b>5)NANDEESH P</b>
(61) Patent of Addition to Application Number	:NA	<b>6)NAVEEN M</b>
Filing Date	:NA	<b>7)VINEET K GOKHALE</b>
(62) Divisional to Application Number	:NA	<b>8)SUJEETH</b>
Filing Date	:NA	

## (57) Abstract :

In this project described here is quite useful in the agricultural field. The project aims on the design, development and the fabrication of the robot which can dig the soil, put the seeds, feveler to close the mud and sprayer to spray water, these whole systems of the robot works with the battery and the solar power. More than 40% of the population in the world chooses agriculture as the primary occupation, in recent years the development of the autonomous vehicles in the agriculture has experienced increased interest. The vehicle is controlled by Relay switch through IR sensor input. The language input allows a user to interact with the robot which is familiar to most of the people. The advantages of these robots are hands-free and fast data input operations. In the field of agricultural autonomous vehicle, a concept is been developed to investigate if multiple small autonomous machine could be more efficient than traditional large tractors and human forces. Keeping the above ideology in mind we propose to design a unit with the following features: Ploughing is one of the first steps in farming. During this process we till the land and make it ready for the seed sowing. By tilling we mean that a plough will be used which will have teeth like structure at the end and will be able to turn the top layer of soil down and vice-versa. Seed sowing comes next where the seeds need to be put in ground at regular intervals and these needs to be controlled automatically. Limiting the flow of seeds from the seeds chamber is typically doing this. Mud leveler is fitted to close the seeds to the soil and to level the ground. Water pump sprayer is used to spray the water.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018088 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : APPARATUS FOR FACULTY PERFORMANCE MANAGEMENT SYSTEM IN PRIVATE BUSINESS MANAGEMENT EDUCATIONAL INSTITUTIONS

(51) International classification	:G06Q50/20; G06Q90/00; Y10S707/99943	(71)Name of Applicant : <b>1)Dr. KANAPATHY GOPALAKRISHNAN</b> Address of Applicant :Dean (R&D), R&D Cell, New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560 103, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. G. LAKSHMINARAYANA</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 :

Literature reviews indicates that faculty iteration in business management educational institutions is high and these institutions does not attract best talent from other sectors, hence faculty performance management system is essential for attracting and retaining best talent A novel apparatus, method and system have been proposed in this patent disclosure to evaluate the performance of the faculty members at business management institutions. The novel apparatus, method and system for Faculty Performance Management System (Faculty PMS)- bagLN-FPMS • in Private Business Management Educational Institutions has been developed successfully,

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



(54) Title of the invention : DESIGN, SYSTEM AND METHOD OF JOLT ANTI-LOCK BRAKING SYSTEM

(51) International classification	:B62K19/38; B62K25/08; B62L1/00	(71)Name of Applicant : <b>1)Dr. KANAPATHY GOPALAKRISHNAN</b> Address of Applicant :Dean (R&D), R&D Cell, New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560 103, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Rohith R Nair (1NH13AU052)</b>
(33) Name of priority country	:NA	<b>2)Akhil Kalibhat (1NH13AU005)</b>
(86) International Application No	:NA	<b>3)Ravi Rathore (1NH13AU049)</b>
Filing Date	:NA	<b>4)Silas Simon Isaac (1NH13AU054)</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 :

While antilock brakes (ABS) have been convincingly demonstrated to enhance test track braking performance, their effect on crash risk in actual driving remains less clear. The design and fabrication of an anti-lock braking system that is completely free from the electronics of a bike is being covered in this patent application. This braking system intends to reduce the market price of a vehicle with an ABS, since a conventional ABS is available for high end bikes. The JOLT anti-lock braking system focuses on low-end bikes with disc brakes. Hence increasing the safety standards at an overall level and making this safety feature easily available for the common man. The JOLT system is completely free of electronics which results in the elimination of the failures that occur in a conventional ABS and at the same time it reduces the load on the battery since there is no Electronic Control Unit needed to be powered by the battery. It uses a barrel system and a cylinder assembly to push the fluid to actuate the piston that is present in the calipers. The focus of our braking system is to replicate the conventional ABS by sending the fluid in jolts.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018090 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : JACKETED PERVIOUS BRICKS

(51) International classification :E02D17/202;E04C1/40;  
(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. KANAPATHY GOPALAKRISHNAN**  
Address of Applicant :Dear(R&D), R&d Cell, New Horizon  
College of Engineering, Ring Road, Bellandur Post, Near  
Marathalli, Bangalore-560 103, Karnataka, India Karnataka India  
(72)Name of Inventor :  
**1)PAWAN KUMAR. K.R**

(57) Abstract :

The invention is about providing a jacket surrounding a brick made of pervious concrete on one or more sides which will prevent the ingress of soil from bottom or sides, which allows the water to pass through it in direction of gravity. This allows the brick to isolate itself from the soil mass from occupying the voids under wet or dry condition the jacket keeps the brick in working condition, without disturbing the aesthetic appeal of the bricks.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018091 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : APPARATUS AND NOVEL METHOD USING INDEXED BUCKET SORTING ALGORITHM

(51) International classification	:G06F 7/08	(71)Name of Applicant : <b>1)DR. KANAPATHY GOPALAKRISHNAN</b> Address of Applicant :Dear(R&D), R&d Cell, New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560 103, Karnataka, India Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)DR. PRASHANTH CSR</b>
Filing Date	:NA	<b>2)DEEPIKA</b>
(87) International Publication No	: NA	<b>3)JAYA R</b>
(61) Patent of Addition to Application Number	:NA	<b>4)ANJANA SHARMA</b>
Filing Date	:NA	<b>5)ASHA RANI</b>
(62) Divisional to Application Number	:NA	<b>6)SIVABALAN</b>
Filing Date	:NA	<b>7)SHANMUGAPRIYA</b>
		<b>8)KUNDHAVAI</b>

(57) Abstract :

The present invention generally relates to sorting which remains one of the most fundamental problems in Computer Science. A number of sorting techniques have been proposed in the past and some of them have shown very good results. However, most of the sorting algorithms are not suitable for today's very large data sets especially in Big Data. The prescribed Apparatus and Novel Method Using Indexed Bucket Sorting Algorithm strives to achieve a superior run-time performance compared to contemporary sorting algorithms such as Merge-Sort and Quick-Sort. The proposed apparatus and method is not limited to a specific data type or type of record. The productivity enhancement in terms of run-time has been observed significant when compared to the volume of data handled for a given time is phenomenal.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018092 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : SYSTEM AND METHOD USING MEDIAN INDEX SORT (MI SORT) FOR INTEGERS

(51) International classification	:G06F17/00
(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. KANAPATHY GOPALAKRISHNAN**

Address of Applicant :Dear(R&D), R&d Cell, New Horizon  
College of Engineering, Ring Road, Bellandur Post, Near  
Marathalli, Bangalore-560 103, Karnataka, India Karnataka India

(72)Name of Inventor :

**1)Dr. PRASHANTH CSR**

**2)Dr. MOHAN KUMAR**

**3)BEENA BM**

**4)SURIYA BEGUM**

**5)CLARA A**

**6)PRAMILA RANI**

(57) Abstract :

The present invention generally relates to sorting which remains one of the most fundamental problems in Computer Science. A number of sorting techniques have been proposed in the past and some of them have shown very good results. However, most of the sorting algorithms are not suitable for today's very large data sets especially in Big Data. The prescribed System and Novel Method Using Median Index (MI) Sort strives to achieve a superior run-time performance compared to contemporary sorting algorithms such as Merge-Sort and Quick-Sort. The proposed apparatus and method is not limited to a specific data type or type of record. The productivity enhancement in terms of run-time has been observed significant when compared to the volume of data handled for a given time is phenomenal.

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

(54) Title of the invention : NOVEL METHOD TO ENSURE WRONG WINDOW MESSAGE ALERT SYSTEM

(51) International classification	:G06N99/005; G06Q10/107;	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. KANAPATHY GOPALAKRISHNAN</b>
(32) Priority Date	:NA	Address of Applicant :Dean (R&D), R&D Cell, New Horizon
(33) Name of priority country	:NA	College of Engineering, Ring Road, Bellandur Post, Near
(86) International Application No	:NA	Marathalli, Bangalore-560 103, Karnataka, India Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. PRASHANTH CSR</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

The Web-based online chatting apps such as Whatsapp, Snapchat etc allow users to become members of multiple social or professional groups and it enables real-time communications, usually in the form of text or multimedia-based messages, between two or more individuals or groups or parties. Many tools, such as instant messengers, Internet Relay Chat (IRC), talkers, etc., are available for different type of users to perform one-to-one chat or one-to-many group chat. Due to the presence of a good number of groups and also individual chats that are available to the users at any point of time, there have been several instances wherein a user has transmitted or sent a message inadvertently to a group or an individual (who were actually not the intended target). The posting of messages onto the wrong message windows have caused considerable embarrassment to many users on the social media. The disclosure based on inventive steps, herein describes an intelligent chat system to provide Wrong Window Message Alert system. It is a machine learning system which tries to understand the pattern and usage of users in detecting the wrong messages. Users are alerted whenever they want to post an url usual message to an individual or a group. The intelligent system alerts the user and also simultaneously prevents and/or blocks the message/chat to reach unintended recipient(s). It is the combination of intelligent system, computer program and method for preventing unintended communication errors in web-based messaging system.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018094 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : TURMERIC POWDER (CURCUMA LONGA LINN.) BASED NOVEL PLANT TISSUE CULTURE MEDIA BY MEANS OF ENHANCED CALLUS INDUCING AND ANTI FUNGAL ABILITIES

(51) International classification	:A61K36/00; A61K36/9066	(71)Name of Applicant : <b>1)Dr. KANAPATHYGOPALAKRISHNAN</b> Address of Applicant :Dean (R&D), R&D Cell, New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560103, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)R.S Upendra, Associate Professor</b>
(32) Priority Date	:NA	<b>2)Pratima Khandelwal, Professor &amp; Head</b>
(33) Name of priority country	:NA	<b>3)Asha B.M, Asst Professor</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 :

Culturing the individual plant cells, tissues (explants) and organs in laboratory or in vitro on synthetic media (MS media) under aseptic conditions is a usual process in plant tissue culture studies. Successful attempts were made to induce a process of de differentiation to enhance the formation of callus (3 to 4 grams) and avoid fungal contamination using the MS media supplemented with various concentration of turmeric powder. Results of the new study revealed that turmeric powder used at the concentrations of 0.8 - 1.0 g/L in the media resulted in triplicating the amount of the callus and also controlled the fungal contamination for two months

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741018095 A

(19) INDIA

(22) Date of filing of Application :23/05/2017

(43) Publication Date : 30/11/2018

(54) Title of the invention : DESIGN OF A NOVEL HYBRID PHOTOBIOREACTOR FOR CULTIVATION OF MICROALGAE FOR BIODIESEL PRODUCTION

(51) International classification	:C12N1/12; C12P17/04; C12P7/40;	(71)Name of Applicant : <b>1)Dr. KANAPATHY GOPALAKRISHNAN</b> Address of Applicant :Dean (R&D) Cell, R&T New Horizon College of Engineering, Ring Road, Bellandur Post, Near Marathalli, Bangalore-560103, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)R.S Upendra, Associate Professor</b>
(33) Name of priority country	:NA	<b>2)Pratima Khandelwal, Professor &amp; Head</b>
(86) International Application No	:NA	<b>3)Aakruti Ruia,</b>
Filing Date	:NA	<b>4)Amulya Grace,</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 study designed a hybrid PBR (flat plate and tubular), considering the different design dimensions. Study utilized LED as the source of artificial blue light to support the growth of microalgae. The designed and fabricated hybrid PBR was tested for microalgae cultures, in both batch and continuous cultivation process ® (Turbidostat). Optimized modified Bolds Basal media (BBM) was used and the results reported that Hybrid PBR supported exponential growth compare to flask cultures, and was reported due to the provision of optimal growth conditions provided by the PBR compare to the flask cultures. The lipid yield registered 4 fold increases in PBR cultures compare to the flask cultures.

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

(54) Title of the invention : ELECTRONIC VARIABLE SPEED GOVERNOR FOR TWO WHEELER

(51) International classification	:B60T8/32; G06F7/00	(71)Name of Applicant : <b>1)Dr. KANAPATHYGOPALAKRISHNAN</b>
(31) Priority Document No	:NA	Address of Applicant :Dean (R&D) R&D Cell, New Horizon
(32) Priority Date	:NA	College of Engineering, Ring Road, Bellandur Post, Near
(33) Name of priority country	:NA	Marathalli, Bangalore-560103, Karnataka, India Karnataka India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)DIPESH BHUSHAN</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 :

Automation of the driving control of vehicles is one of the most vital needs of the hour. Many cities of the world have been experiencing an increase in road traffic accidents much of which can be attributed to human errors such as over speeding. The idea put forth a theory which proposes that any given area of a city, town or village can be divided in to defined speed zones which are classified according to different speed ranges. At regular intervals, a transmitter is placed. Transmitter transmits signal at carrier frequency, indicating the limit speed value of that area into which the vehicle is entering, to the receiver which gives the message as an input to the MICROCONTROLLER embedded within the automobile which compares the speed of the vehicle with the maximum allowable speed and automatically regulates the speed of the vehicle by controlling the fuel flow by sending signals to a servo motor controlled carburetor.

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



पेटेंट कार्यालय  
शासकीय जर्नल

OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE

---

---

निर्गमन सं. 05/2017  
ISSUE NO. 05/2017

शुक्रवार  
FRIDAY

दिनांक: 03/02/2017  
DATE: 03/02/2017

---

---

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

3<sup>rd</sup> FEBRUARY, 2017

## CONTENTS

<i>SUBJECT</i>		<i>PAGE NUMBER</i>
JURISDICTION	:	2572 – 2573
SPECIAL NOTICE	:	2574 – 2575
EARLY PUBLICATION (DELHI)	:	2576 – 2584
EARLY PUBLICATION (MUMBAI)	:	2585 – 2598
EARLY PUBLICATION (CHENNAI)	:	2599 – 2611
PUBLICATION AFTER 18 MONTHS (DELHI)	:	2612 – 2809
PUBLICATION AFTER 18 MONTHS (MUMBAI)	:	2810 – 2869
PUBLICATION AFTER 18 MONTHS (CHENNAI)	:	2870 – 3036
PUBLICATION AFTER 18 MONTHS (KOLKATA)	:	3037 – 3049
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)	:	3050 – 3062
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)	:	3063 – 3067
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)	:	3068 – 3074
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)	:	3075 – 3081
INTRODUCTION TO DESIGN PUBLICATION	:	3082
CANCELLATION PROCEEDINGS UNDER SECTION 19 OF THE DESIGNS ACT, 2000 & DESIGNS (AMENDMENT) RULES, 2008	:	3083 – 3084
REGISTRATION OF DESIGNS	:	3085 - 3139

## THE PATENT OFFICE

KOLKATA, 03/02/2017

### Address of the Patent Offices/Jurisdictions

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

<p>1 Office of the Controller General of Patents, Designs &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:cgpdhn@nic.in">cgpdhn@nic.in</a></p>	<p>4 The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2061-84 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>
<p>2 The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M.Road, Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24137701 Fax : (91)(22) 24130387 E-mail: <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>	<p>5 The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax : (91)(33) 2367 1968 E-Mail: <a href="mailto:kolkata-patent@nic.in">kolkata-patent@nic.in</a></p>
<p>3 The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32, Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 &amp; 25032253 Fax: (91)(11) 25034301 &amp; 25034302 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>	<p>❖ Rest of India</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.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.2287/DEL/2015 A

(19) INDIA

(22) Date of filing of Application :28/07/2015

(43) Publication Date : 03/02/2017

(54) Title of the invention : WINDOWS OF BUS TRANSMITTING RADIO SIGNALS FOR CELL PHONES INSIDE

(51) International classification	:H01Q	(71)Name of Applicant :
(31) Priority Document No	1/00	1)GOPALAKRISHNAN KANAPATHY
(32) Priority Date	NA	Address of Applicant :THE INSTUTION OF ENGINEERS,
(33) Name of priority country	NA	#3, DR. B.R. AMBEDKAR VEEDHI, BANGALORE-560001
(56) International Application No	NA	Karnataka India
Filing Date	NA	2)V. MURALIKRISHNA REDDY LINGIREDDY
(57) International Publication No	NA	3)SAURABH KWATRA
(61) Patent of Addition to Application Number	NA	(72)Name of Inventor :
Filing Date	NA	1)GOPALAKRISHNAN KANAPATHY
(62) Divisional to Application Number	NA	2)V. MURALIKRISHNA REDDY LINGIREDDY
Filing Date	NA	3)SAURABH KWATRA

(57) Abstract :

The present invention consists of a slot antenna between the metal frame of a window and a conductive, optically transparent film panel which is bonded to the window and has an outer peripheral edge spaced from the inner metal edge of the window frame. This defines a polygonally shaped antenna slot between the peripheral, outer edge of the inner panel and the inner metal edge of the surrounding metal. The antenna is particularly adapted for radio frequencies of GSM Mobile network in India.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.2289/DEL/2015 A

(19) INDIA

(22) Date of filing of Application :28/07/2015

(43) Publication Date : 03/02/2017

(54) Title of the invention : AUDITORIUM ON TRAILER.

(51) International classification

:E04H

3/00

(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)GOPALAKRISHNAN KANAPATHY

Address of Applicant :#3, DR.B.R. AMBEDKAR

VEEDHILBANGALORE-560001 Karnataka India

2)V. MURALIKRISHNA REDDY LINGIREDDY

3)SAURABH KWATRA

(72)Name of Inventor :

1)GOPALAKRISHNAN KANAPATHY

2)V. MURALIKRISHNA REDDY LINGIREDDY

3)SAURABH KWATRA

(57) Abstract :

The trailer acts as a mobile auditorium. Standard chassis is used taken from factory. Its body is built unique.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.2288/DEL/2015 A

(19) INDEA

(22) Date of filing of Application :28/07/2015

(43) Publication Date : 03/02/2017

(54) Title of the invention : PULSE RATE CONTROLLED HELMET ENTERTAINMENT

(51) International classification	:G06F 3/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GOPALAKRISHNAN KANAPATHY
(32) Priority Date	:NA	Address of Applicant :#3, DR.B.R. AMBEDKAR VEEDHI,
(33) Name of priority country	:NA	BANGALORE-560001 Karnataka India
(86) International Application No	:NA	2)CHARU MONGA
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	:NA	1)GOPALAKRISHNAN KANAPATHY
(61) Patent of Addition to Application Number	:NA	2)CHARU MONGA
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

It is claimed that the system simulating user interaction with the virtual environment comprising a server mounted with a software module, comprising algorithms for controlling the operation of the system, a user device, comprising a device for displaying information in a format 3D, an apparatus for reproducing audio information, functional sensors, microcontroller configured to provide data processing and data exchange with the server, a moveable base for placing the user a set of devices for the implementation of at least one special effect associated with the server control unit, is adaptable to generate and supply the control signal in accordance with the algorithm software module on the moveable base and a set of devices for the implementation of at least one special effect, wherein the intensity control module comprises a virtual environment, comprising a device for monitoring the level of oxygen saturation and pulse rate user configured to transmit data to the server for automatic control of the intensity of the virtual environment and intensity selection switch for the user of the virtual environment arranged to transmit data to the server to execute the algorithm.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/07/2015

(21) Application No.2285/DEL/2015 A

(43) Publication Date : 03/02/2017

(54) Title of the invention : SMART MATERIALS IN MOBILE AUDITORIUMS

(51) International classification

:D04H

(31) Priority Document No

13/00

(32) Priority Date

NA

(33) Name of priority country

NA

(86) International Application No

NA

Filing Date

NA

(87) 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)GOPALAKRISHNAN KANAPATHY

Address of Applicant :THE INSTUTION OF ENGINEERS,

#3, DR.B.R. AMBEDKAR VEEDHI,BANGALORE-560001

Karnataka India

2)V. MURALIKRISHNA REDDY LINGIREDDY

3)SAURABH KWATRA

(72)Name of Inventor :

1)GOPALAKRISHNAN KANAPATHY

2)V. MURALIKRISHNA REDDY LINGIREDDY

3)SAURABH KWATRA

(57) Abstract :

Smart Materials used inside Mobile Auditorium Layered Acoustics Treatment Panel of 100 mm thick consists of (1) Perforated GI Sheets (1.5 mm Thick), (2) Porous Insulator as 3-5 mm Thick Carpet Layer filled with viscous gel and (3) Rock Wool (80-100 mm). They are installed in a special geometrically symmetrical fashion on roof and walls.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.2286/DEL/2015 A

(19) INDIA

(22) Date of filing of Application :28/07/2015

(43) Publication Date : 03/02/2017

(54) Title of the invention : TILTING FLOOR IN BUS

(51) International classification	:E04H	(71)Name of Applicant :
(31) Priority Document No	3/10	1)GOPALAKRISHNAN KANAPATHY
(32) Priority Date	:NA	Address of Applicant :THE INSTUTION OF ENGINEERS,
(33) Name of priority country	:NA	#3, DR. B.R. AMBEDKAR VEEDHI, BANGALORE-560001
(56) International Application No	:NA	Karnataka India
Filing Date	:NA	2)V. MURALIKRISHNA REDDY LINGIREDDY
(57) International Publication No	:NA	3)SAURABH KWATRA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)GOPALAKRISHNAN KANAPATHY
(62) Divisional to Application Number	:NA	2)V. MURALIKRISHNA REDDY LINGIREDDY
Filing Date	:NA	3)SAURABH KWATRA

(57) Abstract :

The bus can be converted to a mobile auditorium by temporarily inclining seats to desired angle. Audibility and visibility are enhanced for all viewers.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.2283/DEL/2015 A

(19) INDIA

(22) Date of filing of Application :28/07/2015

(43) Publication Date : 03/02/2017

(54) Title of the invention : INFLATION OF COMPARTMENTALIZED SEAT

(51) International classification	:A47C 7/74	(71)Name of Applicant :
(31) Priority Document No	:NA	1)GOPALAKRISHNAN KANAPATHY
(32) Priority Date	:NA	Address of Applicant :#3, DR.B.R. AMBEDKAR VEEDHI,
(33) Name of priority country	:NA	BANGALORE-560001 Karnataka India
(86) International Application No	:NA	2)V. MURALIKRISHNA REDDY LINGIREDDY
Filing Date	:NA	3)SAURABH KWATRA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)GOPALAKRISHNAN KANAPATHY
Filing Date	:NA	2)V. MURALIKRISHNA REDDY LINGIREDDY
(62) Divisional to Application Number	:NA	3)SAURABH KWATRA
Filing Date	:NA	

(57) Abstract :

It is claimed that by varying temperature of input air we can make people cooler or hotter from below. New method of supplying/extracting heat. By making small pores in seats, we can tinkle people during movie. By using cyclical variation in inflation, it is claimed that we can reduce fatigue systematically and periodically.

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