Status of Copyright Application:

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Search Results:

Diary Number	Class of Work	Title of Work	Applicant Name	Communication Address	Status
18059/2020-CO/L	Literary/ Dramatic	Lecture Notes on Design of Steel Structures as per IS: 800-2007	BASAVA VAMSI KRISHNA	Eeva IP & IT Services PvtLtd,addressat HIG139,APHBColony,BharathNagar,Moosapet,Hyderabad,Telangana-500018	Registered

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
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Government of India

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202141018133
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/04/2021
APPLICANT NAME	**1 . Dr.A. Hemalatha** **2 . Dr. K.Basker** **3 . Dr.K.Mohan Das** **4 . Dr. C. Selin Ravi Kumar** **5 . Mr.D. Kanakaraju Yadav** **6 . Dr. S. M. Subash**
TITLE OF INVENTION	EFFECTS OF GEOGRID REINFORCEMENT ON THE STATIC LIQUEFACTION BEHAVIOR OF GRANULAR FILL BY TRIAXIAL TEST METHOD
FIELD OF INVENTION	CIVIL
E-MAIL (As Per Record)	hemalathaalagar0@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/04/2021

Government of India

Application Details	
APPLICATION NUMBER	202141016936
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/04/2021
APPLICANT NAME	1 . G Pradeep kumar, Assistant professor/Civil Malla Reddy Engineering College (Autonomous) 2 . B.Shruthi, Assistant professor/Civil Malla Reddy Engineering College (Autonomous) 3 . V.Rajesh, Associate Professor/ Civil/ St. Martin's Engineering College 4 . Dr. D.V. Sreekanth, Professor/ Mechanical/ St. Martin's Engineering College 5 . J.S.S.K.Vasa, Assistant professor/Civil Malla Reddy Engineering College (Autonomous) 6 . Talla Ram prasanna Kumar Reddy, Assistant professor/Civil Malla Reddy Engineering College (Autonomous) 7 . Shyamala bhoomesh, Assistant professor/Civil Malla Reddy Engineering College (Autonomous) 8 . Kande Vamsi Krishna Assistant professor/Civil Malla Reddy Engineering College (Autonomous)
TITLE OF INVENTION	A DETAILED ANALYSIS ON BEHAVIOR OF RCCBEAM UNDER FLEXURAL LOAD
FIELD OF INVENTION	CIVIL
E-MAIL (As Per Record)	rajeshce@smec.ac.in
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/04/2021

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2021

(21) Application No.202141007413 A
(43) Publication Date : 26/02/2021

(54) Title of the invention : STRENGTHENING OF EXPANSIVE CLAYEY SUBGRADE PAVEMENT BY USING ADMIXTURE AND GEOSYNTHETIC

(51) International classification	:C04B0028080000, E02D0001020000, E01C0007180000, E02D0003000000, E21B0049000000
(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

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(57) Abstract :
ABSTRACT The swelling process generates the hydraulic pressure which results in the heaving or lifting of the structure, whereas differential settlement can be caused by the process of shrinkage. Due to the shrinkage and swelling process, many buildings and pavements which are constructed over such soils are often exposed to danger. Thus, the technique of stabilization is made for enhancing the properties of soil to avoid the mentioned risk. This stabilisation increases the load bearing capacities of soil for heavy wheeled vehicle traffic. GGBS, silica fume, rice husk are the basic waste materials used as a waste material, which improves the quality of soil and reduces the cost of pavements. The main objective of the present study is to improve various engineering properties of the soil by using geosynthetic material and admixture. Dynamic cone penetration (DCP) experiment is conducted on site and the corresponding CBR value is calculated. Laboratory experiments are carried out using combinations of geotextile at various heights (H/4, H/2,3H/2 i.e., 43.75mm, 87.5mm and 131.25mm heights respectively from bottom of the mould) and admixture (GGBS: 0% - 40%) to know the consequences when mixed with expansive soils. From the CBR values obtained, the optimum placement of geotextile and GGBS are found to be 9.20 and 30% respectively. The unconfined compressive strength (UCS) value is found to be high i.e., 0.545kg/cm2 when 30% GGBS is added. From the results it is found that, by placing the Geotextile at 131.25mm and addition of GGBS of about 30% has improved the strength of the soil by 60%.

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

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GOVERNMENT OF INDIA

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

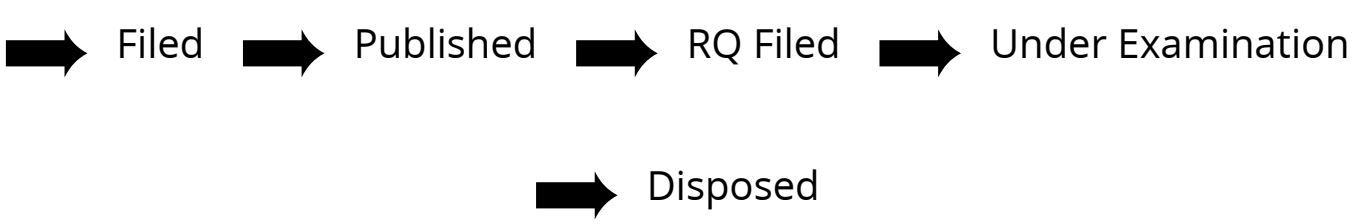
Application Details

APPLICATION NUMBER	202041052023
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/11/2020
APPLICANT NAME	1 . V.Rajesh 2 . Dr J Selwyn Babu 3 . Dr. D.V.Sreekanth 4 . Dr Vivek Vardhan 5 . Dr Rex Jesuraj 6 . Dr. Jaganata Kumar 7 . G Pradeep kumar 8 . P Naga Raja
TITLE OF INVENTION	STUDY ON THE INFLUENCE OF TERRAZYME AS A STREGTHENINGAGENT FOR BLACK COTTON SOIL
FIELD OF INVENTION	AGRICULTURE ENGINEERING
E-MAIL (As Per Record)	dvsk75@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/12/2020

Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

View Documents


Filed
Published
RQ Filed
Under Examination
Disposed

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/10/2020

(21) Application No.202041047017 A
(43) Publication Date : 06/11/2020

(54) Title of the invention : A STUDY ON BEHAVIOUR OF MECHANICAL PROPERTIES OF CONCRETE WITH ADDITION OF FLYASH AND NANO-SILICA GEL

(51) International classification	:G01N 33/38
(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

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(57) Abstract :
In the present work deals with addition of Flyash and Nano-silica to concrete as partial replacement to cement in 10%, 20% & 30% and dosages of 1%, 1.5% and 2% respectively by weight of cement. Based on early research M20 grade concrete has been chosen for this work. The mix design was prepared using IS: 10262-2009 Guidelines for concrete mix design proportioning. In the present work 117 numbers of specimens were casted (78 numbers of cube moulds and 39 numbers of cylinder moulds) with addition of Flyash and Nano-silica in different proportions which are tested for compressive strength and split tensile strength. Addition of Nano-silica to normal cement concrete show increase in compressive strength and decrease in splitting tensile strength. SEM (Scanning Electron Microscope) analysis evidence the direct involvement of Flyash and Nano-silica in region of specimen.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2020

(21) Application No.202041034800 A
(43) Publication Date : 04/09/2020

(54) Title of the invention : DEVELOPMENT OF BENDABLE CONCRETE USING FIBERS

(51) International classification :B28B1/52
(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

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(72)**Name of Inventor :**
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7)C Balakrishna

(57) Abstract :
Bendable Concrete commonly known as Engineered Cementitious Composite (ECC) is an ultra-ductile concrete with strain-hardening and multiple-cracking behaviour in tension and flexure. The Bendable Concrete comprising the a recron 3S fiber volume fraction as 2%-3%,a Super plasticizer as 2%, and water/(cementitious material) ratio fixed out as 0.5, and replacement of fly ash with cement is 30%-40%. The Invention describes the strength characteristics like compressive strength, Flexure strength, Splitting Tensile strength of different Bendable concrete mixtures As the fibers volume increases in the concrete upto some content the strengths are also increased. Keywords: Bendable Concrete, Engineered Cementitious Composites (ECC), Fiber Reinforced Concrete (FRC), PCC.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/06/2020

(21) Application No.202041027665 A
(43) Publication Date : 10/07/2020

(54) Title of the invention : MANUFACTURING OF PLASTIC MARBLE TILE USING PLASTIC BAGS

(51) International classification	:H01L 51/52
(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 :**
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(72)**Name of Inventor :**
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(57) Abstract :
We are using LDPE plastic for our project because it takes less time for melting in Figure 1 we have taken blast furnace and melted the plastic bags and in Figure 2 and Figure 3 the melted plastic bags made into round ball and placed in 150mmX150mm mold and compressed until it™s is cooled and taken out in the for of tile in Fig 3 it™s clear evidence that plastic marble is done by using plastic bags. Plastic collection: The plasticswastes for recycling were collected by using shop bags with LDPE label on them. Compression test: Compression test was conductedas per the ASTM D 695-2015 Standard. Forthis, the Standard specimen size is 150 x 150 x 15mm. The specimenis placed between compressive plates parallel to the surface. The specimen is then compressed at a uniform rate. The maximum load isrecorded along with stress-strain data. An extensometer attached to the front of the fixture is usedto determine modulus. Compressive strength and modulus are two useful calculations in this test. They are calculated using the following equations.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202041006422 A
(19) INDIA
(22) Date of filing of Application :14/02/2020
(43) Publication Date : 12/06/2020

(54) Title of the invention : ELEVATED TENNIS COURTS WITH HYDRAULIC OPERATING MECHANISM

(51) International classification	:E01C0013060000, A63B0071020000, A63C0019060000, A63B0069380000, E04H0009020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :Flat No: 105, Lilly Block, Nagarjuna Dream Land, Kompally, Secunderabad-500014, India. Telangana India
(72)**Name of Inventor :**
1)BASAVA VAMSI KRISHNA

(57) Abstract :
TITLE: ELEVATED TENNIS COURTS WITH HYDRAULIC OPERATING MECHANISM 7. Abstract The present invention discloses a novel design of hydraulic operated elevated tennis courts/play areas (100) comprises of a vertical column (102) on a solid foundation, a plurality of tennis courts/play areas (104) elevated at a certain vertical distance on the said column, a hydraulic means (106) for operating the said vertical column (102) and the elevated courts (100) for desired positions, a truss structure (108) for handling/bearing the loads experienced by the elevated courts (104) and a lift mechanism (110) inside the said vertical column for carrying the players to the elevated courts (104). The elevated tennis courts (102) are positioned at a considerable height utilizing the available vertical space without interrupting/totally occupying the space. The three tennis courts (102) rest on the said column with a hinged support. This proposed design is very much suitable for developing the tennis academies without usually occupying more space. Figure related to abstract is FIG. 1.

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

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GOVERNMENT OF INDIA
PATENT OFFICE
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No. 327338-001/D/ML /AG **Dated the :27/04/2020**

To

Eeva IP & IT services Pvt Ltd, 1st Floor, HIG 139, Bharat Nagar Colony, Moosapet, Hyderabad- 500 018, Telangana, India

SUB : **First Examination Report**

REF :- **Design Application No.327338-001**

NAME OF APPLICANT :- **BASAVA VAMSI KRISHNA**

Subsequent to examination of above mentioned design application under Section 5(1) of the Design Act,2000, the following objections as appended in this letter are raised by this Office and are being sent to you under Rule 18(1). The following documents are enclosed herewith for amendment and the same should be returned to this office together with your observations, which you may like to submit in response to the said objections. Superseded documents, if any, should also be returned to this office after cancellation over your signature.

As prescribed under Rule 18(1), the period for removal of the appended objection(s) shall not exceed the time period of six months from the date of filing of the application, which shall expire on Date 19/08/2020 for the instant application. The said period may be extended for a further period not exceeding three months on a request made in Form-18 along with fees specified in the First Schedule before the expiry of the above mentioned stipulated time period of six months from the date of filing of the application. If your response to this communication is not received at this office on or before the aforementioned stipulated Date 19/08/2020 (or on or before the extended period if any), the instant application shall be deemed to be abandoned under Section 5(5) read with Rule 21.

Arup Garu

(Arup Garu)
[Electronically generated]
Controller of Designs

Encl:-
1. Objection Sheet
2. Application for Grant of Design
3. Representation sheet

NOTE: This is an electronically generated report along with the gist of objections. All Communications to be sent to the Controller of Designs at the above address.

Serial Number	Objections
1	The Nature of the article as seen in the representation sheets is not clear. You are requested to provide the purpose/use of the article.
2	What is submitted for registration,does not appear to be an article falling in the class as stated in the application Form.
3	What is sought to be registered is not a design as defined under section 2(a) and 2(d) of The Designs Act 2000. It appears that the alleged subject matter is related to civil construction.
4	Front/Top/Bottom/Side/Back/Perspective Views of the article should be furnished.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041006605 A

(19) INDIA

(22) Date of filing of Application :15/02/2020

(43) Publication Date : 28/02/2020

(54) Title of the invention : AN EFFICIENT DEVICE AND A METHODOLOGY TO IDENTIFY THE QUALITY OF CONSTRUCTION MATERIALS

(51) International classification :C04B0028020000,C04B0028040000,G06Q0010060000,C04B0014040000,G01N0015080000

(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

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8)VENKATA SUBBAIAH

9)K. DHANASRI

10)S. POOJA SRI REDDY

(57) Abstract :

An efficient device and a methodology to identify the quality of construction materials is an important invention that supports the civil engineers to complete their projects on time with quality materials. The invention is based on image processing and data mining aspects that will implement the methodology and system by using plurality of sensors. The system also encloses Bluetooth device that will communicate the information regarding the quality of the construction materials to the engineer. The invention aims at identifying the quality of sand, cement and concrete mixture separately. It is important to check the ratio of sand, cement and water that is mixed up to form the concrete composition. The strength mainly depends on the composition of concrete mixer. Thus the invention is a revolutionary device in the field of construction technology.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/02/2020

(21) Application No.202041006604 A
(43) Publication Date : 21/02/2020

(54) Title of the invention : AN EXTENDABLE LADDER ALONG WITH A REMOTE CONTROL SYSTEM TO BE USED AT CONSTRUCTION SITES

(51) International classification :A61B0008000000,G01C0015000000,E04G0001360000,B25J0015000000,A61K0031704000
(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

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(57) Abstract :
An extendable ladder along with a remote control system to be used at construction sites is an efficient ladder in terms of both money and time. The proposed invention is a robotic based ladder that can elongate or shortened according to the need of the user. The ladder is essential to do the tasks such as painting or designing the lengthier walls. It is the responsibility of the civil engineer to provide safer equipments to the labor for carrying out their work efficiently. The proposed ladder is compact and can be easily carried to various sites. The remote control mechanism will help to setup the ladder to the required position whereas in the existing system of clamps the setup itself consumes a day. Also the proposed invention will reduce the number of labors required to complete the task thus saving money and time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/05/2018

(21) Application No.201841020231 A
(43) Publication Date : 08/06/2018

(54) Title of the invention : SYSTEM TO COLLECT AIR POLLUTANT FROM EXHAUST OF A VEHICLE AND FURTHER GENERATES OXYGEN

(51) International classification :B01D 53/00
(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

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(57) Abstract :
A system to collect air pollutant from an exhaust of a vehicle and further generates oxygen. The system comprises an exhaust collector, noise controller, chimney, oxygen converter, hose, and middle barrier gate. The exhaust collector collects exhaust gas from the vehicle. The exhaust gas comprises the air pollutant such as carbon dioxide, ultrafine particulates, black carbon, oxides of nitrogen (NOx), and carbon monoxide. The noise controller reduces noise generated from a blower and motor. The chimney connected with a dust remover to provide ventilation for the exhaust gas collected by the exhaust collector. The oxygen converter comprises an air purifying circuit to convert the exhaust gas into oxygen. The hose collects exhaust gas from the exhaust collector and further transmits the exhaust to the chimney. The middle barrier gate installed over a divider of a road adaptable to support the exhaust collector, the chimney, and the hose.

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

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शासकीय जर्नल

OFFICIAL JOURNAL
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निर्गमन सं. 11/2021	शुक्रवार	दिनांक: 12/03/2021
ISSUE NO. 11/2021	FRIDAY	DATE: 12/03/2021

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2021

(21) Application No.202141008722 A
(43) Publication Date : 12/03/2021

(54) Title of the invention : DEVELOPMENT OF IMAGE PROCESSING BASED FRUIT SPOILED DETECTION SYSTEM

(51) International classification	:G06K0009000000, G06K0009460000, G06T0007136000, G06F0011340000, G01N0021880000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Automation of plant recognition is an important process for the fields working plants. This presents an approach for plant recognition using fruits images. In this new product innovation, the proponents demonstrated the development of the system that gives users the ability to identify fruits based on photographs of the leaves taken with the high definition camera. The output parameters are used to compute well documented metrics for the statistical and shape. The system can extract the physical parameters from the fruit image that will be used in identifying fruits. The aim is to build an accurate fast and reliable fruit detection system. From the extracted vegetable parameters, the system provides the statistical analysis and general information of the identified fruit. At the heart of this system is a modernized process of identification, so as to automate the way of identifying the fruit plants through fruit image and digital image processing. The system used the Gabor Filter, Edge Detection, RGB colour and Gray Scale image to acquire the physical parameter of the leaves.

No. of Pages : 17 No. of Claims : 2

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103586

The Commissioner of Patents has granted the above patent on 20 January 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

LNUM- Human Immune Detection System: Human Immune Level Detection and Notification System Using Mobile Phone

Name of inventor(s):

Umar, Syed; Daniel, Ravuri; Bode, Prasad; Jalumuri, Anitha; Gogineni, Himabindu; Kiran Pasam, Prudhvi; Sainath, N.; Chordiya, S. B.; Rao, M. Venkata and Kumar Sarkar, Biplab

Term of Patent:

Eight years from 20 November 2020

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 20th day of January 2021

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103586

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 20th day of January 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020
(21) Application No.202041052252 A
(43) Publication Date : 11/12/2020

(54) Title of the invention : AN EFFICIENT MRF MODELS FOR DETECTION OF BRAIN ABNORMALITY BASED ON MR IMAGES

(51) International classification :G06T 7/00
(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

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(57) Abstract :
ABSTRACT AN-EFFICIENT MRF MODELS FOR DETECTION OF BRAIN ABNORMALITY BASED ON MR IMAGES Image segmentation with a focus on Magnetic Resonance (MR) images of brain has become very essential in diagnosis of abnormality in the brain. Identification of gray scale values of brain tissues is complex in nature because inhomogeniety. Identifying brain disorders deeply depend upon perfect segmentation of three brain tissues namely Gerebro-Spinal Fluid (CSF), White Matter (WM) and-Gray Matter {GM) of MR image. The segmentation methods addressed in the literature could neither able to yield the labeling nor identify the boundaries of an image to locate the tumor and effected area. In this work, initially, the brain MR image segmentation has been performed by using statistical and stochastic models such as Histogram thresholding, Region Growing method, K-means method and Expectation Maximization (EM) algorithm to identify tumor with and without noise in brain MRI. These are simple threshold, distance based segmentation techniques and do not consider spatial information while processing, which is an important parameter in the image segmentation. Finally, Hidden Markov Random Field (HMRF) model developed, in this model, the systems believe a Markov process with latent or hidden states and the dependence of the output on the state is noticeable, sven though the state is hidden. The results obtained from Hidden Markov Random Field mode! are compared with Fuzzy- MRF model. Finally, it is observed that the segmentation results obtained from HMRF model are more accurate in terms of quality metrics more effective in dealing images in a noise environment

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

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते
GOVERNMENT OF INDIA

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

Application Details	
APPLICATION NUMBER	202041050057
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/11/2020
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TITLE OF INVENTION	VOICE BASED SMART HOME AUTOMATION SYSTEM
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	ipr@akshipassociates.com
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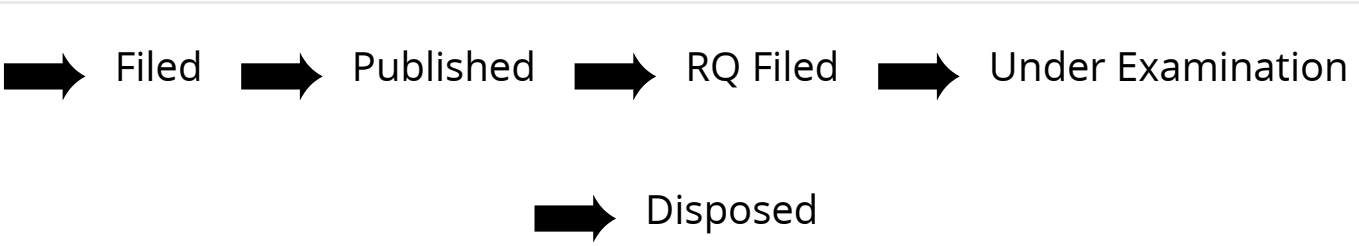
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/11/2020

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents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Published
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/12/2019
(21) Application No.201941054742 A
(43) Publication Date : 28/08/2020

(54) Title of the invention : A NOVEL METHOD AND SYSTEM FOR HUMAN ACTION RECOGNITION USING DIFFERENCE DEPT MOTION MAP AND CONVOLUTION NEURAL NETWORKS

(51) International classification	:G06K0009000000, G06K0009460000, G06K0009620000, G06N0003040000, G06T0007730000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Human Action Recognition has become the most significant research area for several applications like robotics, healthcare, gaming, smart houses, etc. However, in computer vision, action recognition from videos is one of the most challenging issues, due to some extraneous aspects like Occlusions, backgrounds, noises and so on. One solution to overcome the above-mentioned problems is acquiring only motion and shape cues form depth action video sequences. With this objective, in this paper, a new action representation approach is proposed based on Depth Motion Map (DMM), called as Difference Depth Motion Map (D2MM). Next, a well-designed CNN is trained especially to extract the features from two actions with a similar structure. The CNN model introduced in this paper involves five convolutional layers, three pooling layers, and one fully connected layer. The experimental results of the proposed method are compared with conventional methods on the publicly available dataset, MSR Action 3D. The comparative analysis proves that the proposed approach outperforms the prior art techniques.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/07/2020

(21) Application No.202041028691 A
(43) Publication Date : 10/07/2020

(54) Title of the invention : WIRELESS POWER TRANSFER BASED PATIENT HEALTH MONITORING SYSTEM

(51) International classification	:H02J 50/12
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Abstract In recent years there is more advancement in medical field especially in biomedical instrumentation technologies. This technology is growing day by day with sensor-based health care monitoring system. In medical applications, the Wireless Power Transfer (WPT) technology is used for various applications and in research purposes. The condition of a human body is assessed by measuring the vital signs. These are very much useful in understanding the health status and for detecting the medical problem of a person. The vital signs are assessed through temperature sensor, heartbeat sensor and ECG sensor. For signal processing and data transfer from sensor it has the associated circuits attached along with the sensor. One of the serious issues occur in this type of circuit is the powering problem. The supply cannot be given directly by means of batteries to the sensor. Because when it comes in contact with the blood there is some serious health risk will occur. So alternate supply has to be given in order to avoid such risk. It can be supplied by means of tether-less and battery-less wirelessly to the circuit. The best method wireless power transfer for sensor-based monitoring system is Inductive power transfer method.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/06/2020

(21) Application No.202041023388 A
(43) Publication Date : 12/06/2020

(54) Title of the invention : NAVIGATION GUIDANCE FOR DIFFERENTLY ABLED PERSON

(51) International classification :G01C 21/34
(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

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(57) Abstract :
This proposal is an embedded system based technique and the main objective of this proposed design is a blind man protection system to detect the obstacles using ultrasonic sensor. This blind man protection device is used to prevent against misshapenness which leads to great loss of human lives due to automobiles collisions, obstacles, and accident. This gives a disastrous result to human lives. So the main purpose of this design is to detect the other automobiles, obstacles and bystanders in order to prevent accidents. This proposal is designed for blind people to avoid obstacles. Here, an ultrasonic sensor is used to detect any obstruction and it in turn signals the microcontroller. Whenever the obstacle comes near the stick an ultrasonic sensor senses the obstacle and signals to the microcontroller and in turn the microcontroller will on the voice chip. The detector circuitry consists of two way ultrasonic integrated detection. The detector houses the transmitter as well as receiver. The detectors are positioned on the blind man stick. Once the detector recognizes any obstacle, the microcontroller signals and in turn on the sensor which is interfaced to the microcontroller.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/05/2020

(21) Application No.202041021804 A
(43) Publication Date : 05/06/2020

(54) Title of the invention : SMART IRRIGATION SYSTEM FOR AGRICULTURAL PURPOSES

(51) International classification	:A01G0025160000, A01G0025090000, G06Q0050020000, G06Q0010060000, C12M0001107000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Agriculture is an important aspect of countries like India. The major occupation of Indian population depends upon agriculture for their livelihood almost 58% of rural household. The prosperity and economic condition of the country mainly depends upon the growth in agriculture to the large extent. All over the world, India is the second largest producer of food. Worldwide it is the second largest food producer. But currently most of the farmers are quitting agriculture due to many reasons such as lack of labors, water scarcity, less prices etc. In this major reason for quitting is the lack of labors so it is difficult to maintain irrigation system in the agricultural field. In order to overcome these issues, in this project the irrigation system is controlled by using remote control so that the farmer can maintain their fields without any labors help. Due to this proper irrigation system can be maintained and water can be saved to the greater extend.The concept of remote-controlled irrigation system with the help of voice commands was designed prior.

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

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सत्यमेव जयते
GOVERNMENT OF INDIA

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

Application Details	
APPLICATION NUMBER	202041004551
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/02/2020
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TITLE OF INVENTION	REAL TIME CROP MONITORING USING INTERNET OF THINGS (IOT) BASED PRECISION AGRICULTURE
FIELD OF INVENTION	COMMUNICATION
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ADDITIONAL-EMAIL (As Per Record)	purushotham.mps@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/02/2020

Application Status	
APPLICATION STATUS	**Application Published**

View Documents

Design Application Details

Application Number:

324892-001

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24402

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Applicant Name:

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Design Application Status

Application Status:

Design Accepted and Published, Journal No is 05/2020 and Journal Date is 31/01/2020

Back (/designapplicationstatus/)

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941053823 A

(19) INDIA

(22) Date of filing of Application :25/12/2019

(43) Publication Date : 03/01/2020

(54) Title of the invention : EVRT-MONITORING SYSTEM: REAL-TIME MONITORING SYSTEM IN ELECTRIC VEHICLE USING IOT-BASED TECHNOLOGY.

(51) International classification :H04L0029080000,H04N0007180000,B61L0001000000,H04M0003220000,G08B0027000000

(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

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4)DR. SHAVETA MALIK

5)GILLALA REKHA

6)MR. PAWAN KUMAR SINGH

(57) Abstract :

In my InventionEVRT-Monitoring System • The utility model provides a real-time monitoring system in an electric vehicle Using IOT-Based Technology. The monitoring system comprises a vehicle-mounted terminal and a monitoring center. The vehicle-mounted collects monitoring information related to an electric vehicle according to a first period, sends the monitoring information to the monitoring center according to a second period, receives alarm information sent by the monitoring center, and triggers a warning operation based on the alarm information. The monitoring center is used for receiving the monitoring information from the vehicle-mounted terminal, analyzing the monitoring information, and sending the alarm information to the vehicle-mounted terminal if a storage fault is judged.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941053275 A

(19) INDIA

(22) Date of filing of Application :21/12/2019

(43) Publication Date : 27/12/2019

(54) Title of the invention : AN AUTOMATED IOT BASED AGRICULTURE MONITORING SYSTEM SUPPORTED BY WIND ENERGY AND MEASURE VARIOUS PARAMETERS

(51) International classification :A01G0025160000,A01B0079000000,G06Q0050020000,A01M0007000000,A01B0079020000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

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

(87) International Publication No : NA

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

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

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(57) Abstract :
An Automated Agricultural Land Monitoring System with Plurality of Sensors and Detect Various Parameters associated thereto is an invention that will lead for better cultivation practices and Yields. Also the entire system is run using Renewable energy resource which is a need of the hour invention. Wind energy is used to run and maintain the agricultural monitoring system. Agriculture depends on various parameters and factors that are artificially created because of current agricultural methods or practices. Soil parameters are most important factors since no agriculture can be carried out without soil and they has to be maintained and replenished also. Reducing the amount of water used that is irrigation is next important factor that has to be monitored since Agriculture mostly depends on monsoon rains that are drastically reduced in the recent times. The invention will collect all the related parameters and the same data will be stored in the centralized server on hourly basis so that it helps the farmer to get along with a analysis report and plan their cropping accordingly. Thus the invention is advantageous since it reduces cost, water, amount of pesticides required, quantity of fertilizers required in turn helping the farmer to practice a smart agricultural method and the entire system runs using the energy supplied by the wind mill.

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

Patent Search

Invention Title	METHOD OF LOAD DISTRIBUTION BALANCING FOR FOG CLOUD COMPUTING IN IOT ENVIRONMENT
Publication Number	48/2019
Publication Date	29/11/2019
Publication Type	INA
Application Number	201941044511
Application Filing Date	03/11/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L67/10

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Abstract:

The present invention disclosure is method of load distribution balancing for fog cloud computing in Internet of things (IoTs) environment. The objective of the present inv is to overcome the inadequacies of the prior art in fog cloud computing in IoT environment. The disclosure presents computer implemented an algorithm for load balanci fog computing environment.

Complete Specification

Claims:1. A method of load distribution balancing for fog cloud computing in Internet of things (IoTs) environment, wherein the method in processed in a three laye architecture, the three layer architecture comprises a IoT layer have different computing devices, a Fog layer have computing nodes (VMs) which filters data collected from the IoTs Layers, and a Cloud layer have data centers which provides various services to the users, wherein the method comprising steps of:
Transferring the data from the IoT layer to the Fog layer for processing and storage;
Processing of the data at the Fog layer by the computing functionalities of the Fog layer, wherein the fog layer comprises a load balancer, is used to balances the workloa among all fog nodes equally
Passing the data from the Fog layer to the cloud layer; and
Storing the data at the cloud layer by plurality of large data centers at the cloud layer.

2. The method of load distribution balancing for fog cloud computing in Internet of things environment as claimed in 1, the plurality of computing devices at the IoT layer are cameras, smart watches, smart bins, smart building and smart healthcare.

3. The method of load distribution balancing for fog cloud computing in Internet of things environment as claimed in 1, The Load balancing at the fog layer helps to achieve high resource utilization and improves overall system performance

View Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/05/2018

(21) Application No.201841020233 A
(43) Publication Date : 08/06/2018

(54) Title of the invention : INTELLIGENT SHOE FOR ASSISTING BLIND PEOPLE

(51) International classification :H04R 25/00
(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
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(57) Abstract :
The present invention relates to an intelligent shoe for assisting blind people. The intelligent shoe for assisting blind people comprise of a processing unit, plurality of sensors, a protective layer, a hearing device. The processing unit further comprise of a slot for GSM module, a Bluetooth unit, a battery unit and a microcontroller. The plurality of sensors further comprise of at least one of LASER sensors and at least one IR sensors and the protective layer is hard and water proof. The method of the intelligent shoe for assisting blind people comprise of step such as detecting the position and motion of the obstacle by the LASER sensors and IR sensors respectively. Processing and sending the data of the obstacle to the hearing device of the blind people. Storing the data of the obstacle in the server through the GSM module for future use.

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

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020101378

The Commissioner of Patents has granted the above patent on 5 August 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

AN EFFICIENT SYSTEM AND METHODOLOGY TO MONITOR THE DIAGNOSTIC LABORATORY REPORTS ON CLOUD

Name of inventor(s):

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Term of Patent:

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 5th day of August 2020

Commissioner of Patents

PATENTS ACT 1990

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
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निर्गमन सं. 13/2021	शुक्रवार	दिनांक: 26/03/2021
ISSUE NO. 13/2021	FRIDAY	DATE: 26/03/2021

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2021

(21) Application No.202141012146 A
(43) Publication Date : 26/03/2021

(54) Title of the invention : MACHINE PARAMETERS OF NATURAL FIBER PARTICLE REINFORCED POLYMER COMPOSITE MATERIAL USING ANOVA

(51) International classification	:G01N0003240000, G01N0003080000, B24C0001040000, G01N0001280000, G01N0003020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Generally iliere are various amazing materials in the real world which are given by nature to alter the conventional materials in order to reduce the weight, cost and facility to manufacture the product. Hand layup method is used to fabricate the composite specimen which is less economic and easy to fabricate. Materials used in this research work are natural and synthetic fibers. Various mechanical tests has been carried out to determine the mechanical characteristics which includes tensile test, flcxural test, impact test and double shear test, As per ASTM standards, various mechanical tests have been conducted for different samples of different categories. The machining characteristics have been done to determine the optimal parameters using abrasive water jet machining. The input parameters such as pressure, traverse speed, standoff distance has been taken to lltul the optimum response. Here, L27 orthogonal array is used in work piece and optimization is done using Taguchi method and analysis of variance (ANOVA) has been carried out to record the performance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/11/2020

(21) Application No.202041049820 A
(43) Publication Date : 20/11/2020

(54) Title of the invention : A 20-180MHZ FREQUENCY BAND ELECTRICALLY TUNEABLE ANTENNA FOR RADIATION IMMUNITY TESTING

(51) International classification :H01Q1/243
(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

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(57) Abstract :
The Electromagnetic Compatibility (EMC) is an essential part in todayâ€™s society and there are more products around us that emit electromagnetic waves than ever before. To make sure that all these products function properly under all circumstances EMC testing is needed. One test that is conducted is radiated immunity testing. A susceptibility antenna is needed to perform immunity testing. The present invention disclosed here in is a 20-180MHz Frequency Band Electrically Tuneable Antenna for Radiation Immunity Testing comprising of: Signal Generator (101); Power Amplifier (102); Directional Coupler (103), and Anechoic Chamber (104); to test the different Electrically Tuneable Antennas in 20-180MHz Frequency Band. The invention presented here aims to show that a tuneable antenna could be used for immunity testing in the frequency band 20-180 MHz and in the future replace the current antenna, which is not tuneable, used at SAAB Support and Services EMC. A method called EZNEC+ was used on different antennas that were tested in the semi-anechoic chamber. Two antenna types showed better efficiency and reached lower in frequency than current antenna available. These antennas were a bowtie antenna and an x-shaped antenna, both extending in only two special directions instead of the normal three. The present invention provides strong E-field and a low VSWR to a bowtie antenna and an X-shaped antenna.

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

inPASS Indian Patent Advanced Search System (http://ipindia.nic.in/index.htm) INTELLECTUAL PROPERTY INDIA PATENTS | DESIGNS | TRADE MARKS GEOGRAPHICAL INDICATIONS (http://ipindia.nic

Patent Search

Invention Title	A SURVIVAL OF SMART CLASSROOM INTEGRATED IOT USED IN CAMPUS WITH FULLY CLOUD COMPUTING
Publication Number	43/2020
Publication Date	23/10/2020
Publication Type	INA
Application Number	202041044340
Application Filing Date	12/10/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L 29/08

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041004245 A

(19) INDIA

(22) Date of filing of Application :31/01/2020

(43) Publication Date : 07/02/2020

(54) Title of the invention : AN AUTOMATED IOT BASED BLOOD GLUCOSE MEASUREMENT DEVICE ALONG WITH LED INDICATION

(51) International classification :A61B0005000000,A61B0005145000,G16H0015000000,A61B0005145500,A61B0005151000

(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

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(57) Abstract :

An automated diabetic check device and a system to store results on cloud for report generation is the invention that aims at implementing a system to check the blood glucose level of an individual by himself without depending on the care taker to do so. The proposed invention has the automated needle system and the strip ejection mechanism for checking the blood glucose level by itself so that the user need not have to insert the strip and drop the blood on to the strip immediately which is tedious task. The invention also includes a mechanism for automated pricking and recording the results on the cloud for future analysis and report generation. Even the lay man can understand the results with the help of LED Lights which will indicate the result through red and green lights. The device will help the patient to get the diagnosis of blood glucose done by themselves rather than going to diagnostic centers or laboratories.

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

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते
GOVERNMENT OF INDIA

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

Design Application Details

Application Number:

321696-001

Cbr Number:

17833

Cbr Date:

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Design Application Status

Application Status:

Design Accepted and Published, Journal No is 36/2020 and Journal Date is 04/09/2020

Back (/designapplicationstatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign.ipo@nic.in
Controller General of Patents, Designs and Trademarks

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/11/2018

(21) Application No.201841044752 A
(43) Publication Date : 07/12/2018

(54) Title of the invention : AN EMPLOYEE MANAGEMENT SYSTEM

(51) International classification	:G06Q 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

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(57) Abstract :
Present invention relates to an employee management system, comprising of a GPS tag worn by the employee; a LCD display board screen connected to a power supply, said LCD display board provides details and location of an employee in an organization, on request, wherein the LCD display board screen has a computer network which shows the details and location display board and the GPS tag.

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

Design Application Details

Application Number:

343867-001

Cbr Number:

203694

Cbr Date:

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Design Application Status

Application Status:

Application Under Process(wating for Technical Examination)

Back (/designapplicationstatus/)

Design Application Details

Application Number:

342725-001

Cbr Number:

202934

Cbr Date:

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Design Application Status

Application Status:

Application Under Process(wating for Technical Examination)

Back (/designapplicationstatus/)

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Register of Patents

Patents Act 1990

Innovation Patent Patent no: 2021100914

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VARUN PERINBA RAJA CHINNARAJA
L. RAGHAVENDRA
MANOHAR B. S.
G. K. AYYADURAI
MUTHU SORNAKUMAR KRISHNAN
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KARTHIK ANAND BALASUBRAMANIAN
SATHIYAVEL C.

Title: THERMAL EFFECT POWERED ELECTRIC MOTOR TO MINIMIZE THE POWER CONSUMPTION IN THE ELECTRIC VEHICLE

Term: Eight years from 18 February 2021

Date Granted: 14 April 2021

Date Certified:	
Date of Patent:	18 February 2021
Status:	GRANTED
Expiry Date:	18 February 2029
Date Ceased:	
Date Revoked:	

पेटेंट कार्यालय
शासकीय जर्नल

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2021

(21) Application No.202141015900 A
(43) Publication Date : 16/04/2021

(54) Title of the invention : RECHARGEABLE WIRELESS SENSOR NETWORKS WITH MULTIPLE SINKS

(51) International classification	:H04W0084180000, H04W0028220000, H04W0040100000, G01D0009000000, G06T0003000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
ABSTRACT RECHARGEABLE WIRELESS SENSOR NETWORKS WITH MULTIPLE SINKS In this invention here, we propose a higher data generation rate maximized it as an optimization problem for a network with multiple sinks, to achieve a desirable balance between energy replenishment amount and the data gathering rate is maximized and the sensor can migrates among those root sink nodes, however the low output of energy may cause increase of recharging opportunities in the data collection rate the rapid improvement of wireless sensors are deployed by joint energy and replenish their work more faster and to the maximum extent of data collection in turn as a linear programming problem. Accordingly, a double problem by introducing a language multiplier is build. Sequentially distribute algorithm for maximizing data collection rate and the sub gradient algorithm are used to solve it in a distributed technique. Through extensive simulation and experiment, we demonstrate our algorithm is efficient to maximize data collection rate in rechargeable wireless sensor networks

No. of Pages : 29 No. of Claims : 7

Design Application Details

Application Number:

339857-001

Cbr Number:

201040

Cbr Date:

27-02-2021 07:45:49

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Design Application Status

Application Status:

Application Under Process(Awating for Technical Examination)

Back (/designapplicationstatus/)

Design Application Details

Application Number:

339842-001

Cbr Number:

201021

Cbr Date:

26-02-2021 17:13:16

Applicant Name:

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Design Application Status

Application Status:

Application Under Process(Awating for Technical Examination)

Back (/designapplicationstatus/)

Design Application Details

Application Number:

339783-001

Cbr Number:

200989

Cbr Date:

26-02-2021 07:59:46

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Design Application Status

Application Status:

Application Under Process(Awating for Technical Examination)

Back (/designapplicationstatus/)

Design Application Details

Application Number:

339043-001

Cbr Number:

200474

Cbr Date:

13-02-2021 13:32:24

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Design Application Status

Application Status:

Application Under Process(Awating for Technical Examination)

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Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103897

The Commissioner of Patents has granted the above patent on 27 January 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

An Efficient and Automated Smart Heating Bucket

Name of inventor(s):

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Term of Patent:

Eight years from 4 December 2020

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 27th day of January 2021

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103897

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 27th day of January 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

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(19) INDIA
(22) Date of filing of Application :18/07/2020

(21) Application No.202041030719 A
(43) Publication Date : 31/07/2020

(54) Title of the invention : SAFE DRIVING AND ACCIDENT PREVENTION USING WIRELESS TRANSMITTER TRAFFIC CONTROL

(51) International classification	:G08G 1/16
(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

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(57) Abstract :
The proposed design is implemented in cities where traffic control can become chaotic when an emergency vehicle needs to travel through a busy intersection. In the existing system the status of the signal will be displayed in the traffic light post and if a smaller vehicle is behind a larger one the status of the signal will not be visible. This problem can be rectified in proposed system by implementing a wireless transmitter traffic control that will transmit signals from traffic lights in traffic junctions to the automobiles like car, bike dashboard which helps the riders for safe riding and prevents accidents. This system operates in two revolutionary modes namely the normal and emergency modes. The device transmits the status of the signals from traffic lights in traffic junctions to the automobiles using RF transceivers. The performance of the proposed system is efficient for distance of 170 meters. With a synchronous traffic control system, emergency vehicles can get to their destinations by keeping the travel environment safe thus reducing collisions and avoiding the traffic. The proposed design is advantageous in the sense that it reduces human intervention and is also cost effective.

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

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(12) PATENT APPLICATION PUBLICATION
(21) Application No.202041029576 A
(19) INDIA
(22) Date of filing of Application :12/07/2020
(43) Publication Date : 31/07/2020

(54) Title of the invention : SMART PARKING AND VEHICLE NAME PLATE DETECTION

(51) International classification :B62D 15/02
(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

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(57) Abstract :
This proposed design solves the problem of unnecessary time consumption in finding parking slot at the user end and vehicle owner information retrieval at the service provider end by introducing a Smart parking system. Smart Parking System, automated with Peripheral Interface Controller PIC is capable of allotting a slot as soon as the vehicle reaches the entrance and intimates the allotted slot to the user through Short Message Service (SMS). In the mean time, the system detects the number plate and identifies the vehicle owner™s address owner™s identity. An enhancement of Car License Plate Detection method using Vertical Edge Detection Algorithm with reduced computation time and complexity is used for license plate detail retrieval. The system is cost effective as it relays on simple IR transceivers for parking slot detection and images retrieved by CCTV camera or web camera used for capture the whole image. The image captured from the camera detects the license plate of the vehicle.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/01/2020
(21) Application No.202041004071 A
(43) Publication Date : 07/02/2020

(54) Title of the invention : AN EFFICIENT METHODOLOGY AND SYSTEM TO CALCULATE THE UNITS OF ELECTRICITY CONSUMED BY EVERY PRODUCT

(51) International classification :G06Q0010060000,G06Q0050060000,A61B0005110000,G09B0005020000,A61B0005000000
(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

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8)Mr.T SANJEEVA RAO

(57) Abstract :
AN EFFICIENT METHODOLOGY AND SYSTEM TO CALCULATE THE UNITS OF ELECTRICITY CONSUMED BY EVERY PRODUCT An efficient methodology and system to calculate the units of electricity consumed by every product or an electronic appliance on timely basis is the need of the hour invention, since it is very important to save the non-renewable energy resources. The proposed system aims at calculating the units of electricity consumed by each and every individual electronic product or appliance on hourly basis so that the user can know the electricity of each and every appliance and try to cut down its usage accordingly. The plurality of sensors that are attached to the appliances will read the units and save a copy of data within them after sending it to the main board which will have the data regarding the usage of electricity of the entire building. Also the data regarding the electricity consumption is stored on a cloud server along with alert messages to the user of the appliance so that they can plan the consumption for the month accordingly.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941052193 A

(19) INDIA

(22) Date of filing of Application :16/12/2019

(43) Publication Date : 03/01/2020

(54) Title of the invention : INTERNET OF THINGS [IOT] ENABLED MULTIPURPOSE CARD

(51) International classification :G06Q0020100000,G07F0007100000,G06Q0020340000,G07F0019000000,A63F0001040000

(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

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(57) Abstract :

In everyday life carrying a cards is essential for every individual .The cards like Ration Card, Aadhaar Card, ATM machine, Birth Certificate, Pan Card, Employee details, Assets Details etc..is mandatory to fill any application are to do any tasks. The carrying of all this cards every day and every time for every individual is every difficult tasks instead of carrying a too many cards .Carrying a single multipurpose card is faceable. The Purposed system is a technology with IOT that which can put all the cards in a single place and can be used with a single card. The purposed multipurpose card as a unique id that integrated with the cloud which enables to access all the individual details by using the OTP authentication mechanism .This system will leads to carry a single card for all their daily activities.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2019

(21) Application No.201941037377 A
(43) Publication Date : 01/11/2019

(54) Title of the invention : AUTOMATIC PRODUCT IDENTIFICATION FOR THE SHOPPING CART BY USING SMART WIRELESS TECHNOLOGY

(51) International classification :G06Q20/38
(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

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(57) Abstract :
ABSTRACT Purchasing and Shopping at big malls is becoming daily activity in metro cities. We can see big rush at these malls on holidays and weekends. This crowd becomes huge when there are special offers and discount. People purchase different items and put them in trolley. After completion of purchases one need to go to billing counter for payments. At billing counter the cashier prepare the bill using bar code reader which is very time consuming process and results in long queue at billing counter. The aim of this work is to develop the system which can be used in shopping malls to solve the problem mentioned above. An embedded system will be placed on trolleys in the mall. It will consist of RFID reader. All the items in the mall will be equipped with RFID tags. When person put any item in the trolley its code will be detected and the price of that item will be stored in memory. As we put the items the costs will get added to total. Thus the billing will be done at the trolley itself. Item name and its cost will be displayed on LCD. For detecting different items RFID reader is used. LCD used here is 16X2 alphanumeric displays. It is used to display item names, item cost and total amount to be paid. At the completion of shopping the person will press End Shopping • button and then total bill data will be transferred to PC by wireless RF modules. Later the billing is carried out by master section.

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

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(19) INDIA
(22) Date of filing of Application :11/09/2019

(21) Application No.201941036575 A
(43) Publication Date : 01/11/2019

(54) Title of the invention : MECHANIZATION SILVER HALIDE ERECTOR FOR PRINTED CIRCUIT BOARD FILM PRINTING USING PROGRAMMABLE LOGIC CONTROLLER

(51) International classification :A61B5/08
(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

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(57) Abstract :
A mammographic (photographic) silver halide photosensitive material has at least one photosensitive emulsion layer on either one surface of a support. The emulsion layer is formed of a silver halide emulsion having an iodide content of less than 0.9 mol % based on silver. Silver particles have controlled and predetermined properties of size, morphology and conductive fillers. A method for processing a silver halide photographic light-sensitive material is disclosed which comprises the steps of: exposing the light-sensitive material; developing the exposed material with a developer; and replenishing the developer with a replenished developer in amount of 250cc or less per m2 of the material. The undeveloped or unexposed part of the film is developing with a fixer, and replenishing the fixer with same as in developer. Above said developer, replenished developer, fixer and replenishing fixer are prepared by dissolving in water wash, a solid photographic developing composition comprising a developing agent. Last step is to evolve the water particles present in the film by drying the film using blower.

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

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(19) INDIA
(22) Date of filing of Application :30/09/2019

(21) Application No.201941039625 A
(43) Publication Date : 18/10/2019

(54) Title of the invention : A SYSTEM AND METHOD FOR AUTOMATIC STREET LAMP LIGHTING AND ENERGY SAVING CONTROL

(51) International classification :H05B37/00
(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

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(57) Abstract :
The present embodiment proposes an energy efficient of smart street lighting system. Most times we see that street lights remain switched ON or OFF at inappropriate times due to the negligence of the operators and the intensity of human work involved during day time. Traditional street lamp e.g. Sodium vapor, Metal halide, Incandescent, Fluoresent lamp consumes more power as compared to new advanced LED light. Streetlights can be operated free of cost by using automatic controls. In this invention, the IoT provides the real-time monitoring of the street lights and the energy Consumption with a set of components that function integratedly such as the LED light source device, a video sensing analysis means for acquiring information acquired information data processing, wireless communication module in accordance with an instruction issued by the data processing device, driver for controlling the brightness control means, video sensing analysis and a wireless network device driver apparatus for transmission of data between the LED lights and the data processing system.

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

पेटेंट कार्यालय
शासकीय जर्नल

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निर्गमन सं. 36/2019	शुक्रवार	दिनांक: 06/09/2019
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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/08/2019

(21) Application No.201941031332 A
(43) Publication Date : 06/09/2019

(54) Title of the invention : MOTORIZED DAY BED CONTROL INTERFACED WITH AN INGRAINED SYSTEM BY SIMPLE PHYSICAL MOVEMENTS

(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

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(57) Abstract :
An autonomous Motorized daybed has been developed for physically handicapped people, which serves their crucial role for maneuverings by simply moving their neck. To fulfil this, this work involves Arduino board programmed for processing & controlling the Motorized daybed. Micro switches are used here to sense the neck movements from the disabled person and which further send this to Arduino for taking necessary action to move the Motorized daybed accordingly. GPS module is integrated with the Arduino to locate the physically disabled person in case of emergencies. In addition to this, GSM module is been used for sending crucial information regarding the physically disabled person™s health issues if any, like body temperature, to further send this to his/her contact person/assigned care-taker. In some special case of physically challenged person who is not able to move any of his/her body part except fingers, this work gives the better assistance to make a movement of the Motorized daybed by simply controlling it by virtue of an android app installed on the Motorized daybed. An android app is developed to serve as inputs for processing and controlling the DC motors for the desired maneuverings.

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

पेटेंट कार्यालय
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पेटेंट कार्यालय का एक प्रकाशन

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/11/2018

(21) Application No.201841044346 A
(43) Publication Date : 30/11/2018

(54) Title of the invention : A HYDRATION TRACKER SYSTEM

(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
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(57) Abstract :
The present invention provides a system for reminding a user for drinking water, said system comprising: a flask for storing water; a hydration tracker; wherein said hydration tracker tracks the hydration level of user and connects to the flask, as and when the hydration level goes below a threshold level. Furthermore, the flask is modified to have an upper water storage part and a lower printer part, wherein the lower printer part acts as a portable printer comprising a cartridge, a paper roll and a battery.

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

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(19) INDIA
(22) Date of filing of Application :19/11/2018

(21) Application No.201841043549 A
(43) Publication Date : 30/11/2018

(54) Title of the invention : AUTONOMOUS AERIAL VEHICLE

(51) International classification	:B64C1/00 G01S19/03
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Present invention relates to an autonomous aerial vehicle. More particularly, the invention relates to an autonomous aerial vehicle capable of changing modules, without much alterations. There is provided an autonomous aerial vehicle, comprising an umbrella shaped cover, covering a plurality of motors; a plurality of movable arms, a plurality of propellers are placed over the plurality of arms; a top plate; a bottom plate; arrangement for placing a module; wherein each arm is at an equal angle with each other; wherein the number of motor is equal to the number of arm.

No. of Pages : 21 No. of Claims : 7

पेटेंट कार्यालय
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PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/07/2018

(21) Application No.201841027780 A
(43) Publication Date : 03/08/2018

(54) Title of the invention : SEISMIC ISOLATOR DEVICE FOR SEISMIC PROTECTION

(51) International classification :E04H 9/00
(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

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(57) Abstract :
A seismic isolator device for seismic protection of the civil structure; said system comprising an upper plate, a lower plate, a slope surface, and a rolling roller. The said device is installed between base mass and foundation of structure by providing rolling rollers with concave friction distribution.When an earthquake occurs (and exceeds a certain intensity), the device may release the fixed force and the rollers can roll freely along concave surface to filter out the ground acceleration; resulting in the isolation of the structure. The device having low value of rolling friction coefficient, which allows a very low earthquake force to be transmitted to the foundation of structure and reduces the transmission of horizontal acceleration into the civil structure. Also, the device having re-centering capability, which allows the civil structure to center itself and accommodate substantially larger displacements compared to a traditional sliding seismic isolator bearing.

No. of Pages : 30 No. of Claims : 8

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शासकीय जर्नल

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(19) INDIA
(22) Date of filing of Application :08/08/2017

(21) Application No.201741028098 A
(43) Publication Date : 25/08/2017

(54) Title of the invention : A COLLAPSIBLE ELECTRONIC STORAGE HOUSING FOR TWO WHEELER

(51) International classification	:B60L11/18; B62K25/28; B62M11/16
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
This invention relates to collapsible electronic storage housing for two wheelers for saving space on the two wheelers. The collapsible electronic storage housing 100 for two wheeler comprising: a front side 101; wherein said front side comprises a plurality of permanent magnets 109; a back side 102; wherein said back side comprises a plurality of electromagnets 107 and a processor 103; and a three-way switch for either locking-in compression, expanding, or locking-in expansion stage to said collapsible electronic storage housing by said processor 103. The collapsible electronic storage housing 100 further comprises a handle 106, springs 104, and hinges 108. The springs 104 and hinges 108 are connected between the front side 101 and the back side 102 of the collapsible electronic storage housing 100.

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

Application Details

2021101959
: A CLASSIFIER FOR ATTACK DETECTION IN CLOUD ENVIRONMENT AND DATA COMPUTING FOR SMART CITIES AND SMART HEALTHCARE SYSTEM USING INTERNET OF THINGS

BIBLIOGRAPHIC DATA

Application details

Australian application number	2021101959	**Patent application type**	Innovation		
Application status	FILED	**Paid to date**		**First IPC Mark**	
Currently under opposition	No	**Proceeding type(s)**			
Invention title	A CLASSIFIER FOR ATTACK DETECTION IN CLOUD ENVIRONMENT AND DATA COMPUTING FOR SMART CITIES AND SMART HEALTHCARE SYSTEM USING INTERNET OF THINGS				
Inventor(s)	Obulesu, O. ; VinayaKumari, N. ; Somasekhar, G. ; Babu Mandru, Deena ; NageswaraRao, D. ; Donthi, Ranadheer ; Vijay Prasad, S. ; Ghantasala, G S Pradeep ; Yaswanth, Raparthi ; Naik. B, Venkateswarulu				
Agent name		**Address for legal service**			
Filing date	2021-04-15	**Australian OPI date**		**OPI published in journal**	
Effective date of patent	2021-04-15	**Expiry date**			
Additional/Divisional application number		**Additional/Divisional relationship**			

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Submission of Relevant Material (S27,S28)

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GOVERNMENT OF INDIA

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

Application Details

APPLICATION NUMBER	202041052994
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/12/2020
APPLICANT NAME	1 . Mr. ANE ASHOK BABU 2 . Mrs. PEDDIBOTLA USHA SRI 3 . Dr. RAMANUJA NARAHARISETTI 4 . Dr. MADHAVI MADIREDDY 5 . Dr. G. LAKSHMI 6 . Dr. R. CHUDAMANI 7 . Dr. DEENA BABU MANDRU
TITLE OF INVENTION	A METHOD AND A SYSTEM FOR EMOTION RECOGNITION FROM A SPEECH
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

PRINCIPAL
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(Post Via Kompally), Sec'bad-500 100

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020100954

The Commissioner of Patents has granted the above patent on 1 July 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

DECISION MAKING SYSTEM FOR CROP-LIVESTOCK FARMS USING MACHINE LEARNING ALGORITHMS

Name of inventor(s):

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Term of Patent:

Eight years from 5 June 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

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COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

Dated this 1st day of July 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

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GOVERNMENT OF INDIA

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

Application Details	
APPLICATION NUMBER	202041051089
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/11/2020
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FIELD OF INVENTION	COMMUNICATION
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
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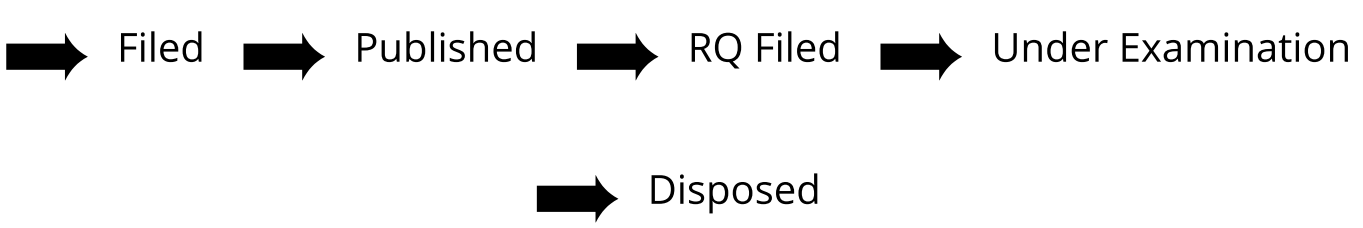
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GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
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Application Details	
APPLICATION NUMBER	202041051090
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/11/2020
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TITLE OF INVENTION	REAL-TIME COLLABORATION AND WORKFLOW MANAGEMENT FOR A MARKETING CAMPAIGN
FIELD OF INVENTION	COMMUNICATION
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E-MAIL (UPDATED Online)	
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REQUEST FOR EXAMINATION DATE	--
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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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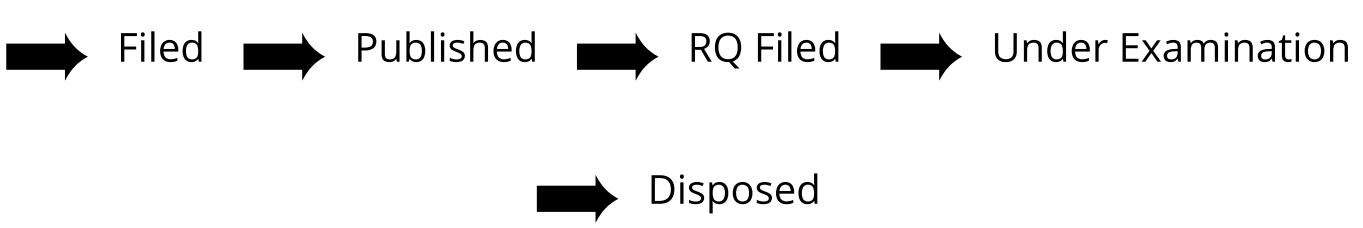
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(21) Application No.202141012160 A
(43) Publication Date : 02/04/2021

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

(51) International classification	:G01K0007020000, B29C0045780000, G05D0023220000, D02G0003360000, A01G0009140000
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)Dr. R.T. SARATHBABU

(57) Abstract :
This invention is intended to improve Electrical versus Thermal proficiency. In this examination infrared infiltration warming framework has been utilized to improve proficiency up to 90% warm effectiveness and 100% electrical productivity. This development identifies with build a furnace model to improve our framework by lessening the weight factor of the heater by changing the shaping methodology of the heater packaging by utilizing of composite protection material. A genuine manufacture model is to investigate IR warming framework. 1R lights will be utilized to give heat. From the furnace, the temperature is detected by the thermocouple, which depends on the rule of See beck impact. Temperature gained from the thermocouple is shown on the screen of the PC. The PC will likewise contrast the temperature procured and the set temperature and control activity if any will be finished by the strong state hand-off that maintains a strategic distance from quick warming. The infrared (IR) wanning can possibly be utilized for solutionizing of metal forgings with advantages of diminished energy utilization, expanded efficiency, and improved microstructure and mechanical properties.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2021
(21) Application No.202141008703 A
(43) Publication Date : 12/03/2021

(54) Title of the invention : DESIGN AND DEVELOPMENT OF TWO WHEELER MUD GUARD USING GLASS AND JUTE FIBER

(51) International classification	:C08J0005060000, B29K0105060000, C08J0005040000, G01N0003200000, G01N0003040000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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3)Dr. S. NARASIMHA KUMAR
4)Mr. B. GOVINDA REDDY
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2)Dr. P. BADARI NARAYANA
3)Dr. S. NARASIMHA KUMAR
4)Mr. B. GOVINDA REDDY

(57) Abstract :
This invention is based on utilization of synthetic and natural fibers in polymer composites. In this research work mechanical testing and methods are used to study the material properties of mud guard fibre - reinforced polyester composites with varying fibre contents. The overall objective of this paper is to find out and compare the difference of two material which have different properties and conditions, namely the first one acrylonitrile butadiene styrene and the composite material glass fiber and Jute fiber with epoxy resin. These composites are subjected to give high strength and light weight fiber composite material. In this project a mechanical testing like tensile flexural and impact test conducted on a mud guard, composite material and Acrylonitrile Butadiene Styrene. In this research a prototype model of mud guard was prepared by our team by using the composite material and the different tests are conducted on it to know the different properties and Values and.it is compared with the existing material, then the results are concluded.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/02/2021
(21) Application No.202141005815 A
(43) Publication Date : 19/02/2021

(54) Title of the invention : EVALUATION OF THRUST FORCE AND TORQUE IN DRILLING OF NATURAL FIBER PARTICLE REINFORCED POLYMER

(51) International classification	:G06N0005040000, C08J0005060000, G06F0021440000, H04W0004120000, A01N0047360000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Dr.R. DHARMALINGAM
4)Mr. T. NARESH KUMAR
(72)**Name of Inventor :**
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2)Dr. V. SIVA RAMA KRISHNA
3)Dr.R. DHARMALINGAM
4)Mr. T. NARESH KUMAR

(57) Abstract :
In this work, a new composite plate with natural Abaca, Mudar and Hemp reinforced polymer composite material by using bio epoxy resin was manufactured and subjected to a series of drilling operation by changing three input factors namely speed, feed rate and depth of cut. During each operation, the output responses namely thrust force and torque were measured. The responses were analyzed using Taguchi method to examine the relation between the input factors and output responses, and also to know the most influencing factors on the responses. The data was also analyzed using fuzzy rule model for prediction of responses for a range of input factors. The results showed that all three factors chosen have significant effect on the responses. The fuzzy model data in comparison with the experimental values shows only a marginal error and hence the prediction was highly satisfactory.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2020

(21) Application No.202041050702 A
(43) Publication Date : 04/12/2020

(54) Title of the invention : AUTONOMOUS DYNAMIC TRAFFIC SIGNAL POSTS

(51) International classification	:G08G 1/095	(71)**Name of Applicant :** **1)Yogesh Kumar Madaria** Address of Applicant :Malla Reddy Engineering College, Main Campus, Maisammaguda, Dhulapally, Kompally, Secunderabad, Telangana 500100 Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)Yogesh Kumar Madaria**
(87) International Publication No	: NA	**2)S. Udaya Bhaskar**
(61) Patent of Addition to Application Number	:NA	**3)Madhu Babu Sikha**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Roadway is the most used mode of transportation of goods, people and machinery. In most of the busy roads in major cities, the traffic congestion, especially near the traffic signals, is severe. The non-dynamic nature of green signal duration leads to increase in congestion, which ultimately results in increased waiting time for the vehicles. Adaptive timing of green signal based on the traffic density can be a potential solution. The proposed Autonomous Dynamic Traffic Signal Post (ADTSP) will determine the traffic density in an intersection in real-time. It will calculate the optimized green signal duration for a direction and thus will regulate the traffic in all the roads that are connected. The installation and implementation of ADTSP will obviously lead to reduction in pollution level and fuel consumption. Thus this technique can be treated as a techno-economical and eco-friendly feasible solution to the grave problem of traffic congestion.

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

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020101724

The Commissioner of Patents has granted the above patent on 9 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

A REINFORCED ABS COMPOSITE MATERIAL OF SPIDER SILK AND ARAMID FIBER ALONG WITH GRAPHENE FOR FABRICATION OF UNMANNED AERIAL VEHICLES

Name of inventor(s):

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Dated this 9th day of September 2020

Commissioner of Patents

Australian Government

IP Australia

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Patent number: 2020101724

K. G., THIRUGNANASAMBANTHAM; R., MAHESWAR; A. G., GANESH KUMAR; A., SAMPATHKUMAR; G., BALAMURUGA MOHAN RAJ; J., JOSHUA GNANA SEKARAN; KOTI, HALESH; T., SANKARAMOORTHY; R., KEERTHI VAASAN; KESAVA REDDY, MEDAGAM; K., SUTHERSHAN and PREMKUMAR, BOTIKA

Term of Patent:

Eight years from 7 August 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 9th day of September 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

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Application Details

APPLICATION NUMBER	202041006468
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/02/2020
APPLICANT NAME	Dr.T.SATHISH
TITLE OF INVENTION	BELT CONVEYOR METAL DETECTOR
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	sathish.sailer@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2020
(21) Application No.202041006468 A
(43) Publication Date : 13/03/2020

(54) Title of the invention : BELT CONVEYOR METAL DETECTOR

(51) International classification	:G01V 3/10	(71)**Name of Applicant :** **1)Dr.T.SATHISH** Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM,CHENNAI, TAMIL NADU, INDIA-602 105. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72)**Name of Inventor :**
(87) International Publication No	: NA	**1)Mr.T.NARESH KUMAR**
(61) Patent of Addition to Application Number	:NA	**2)Dr.K.GURUSAMI**
Filing Date	:NA	**3)Dr.P.SENTHILKUMAR**
(62) Divisional to Application Number	:NA	**4)Dr.T.SATHISH**
Filing Date	:NA	

(57) Abstract :
ABSTRACT BELT CONVEYOR METAL DETECTOR This invention relates to control the conveyor automatically by sensing the objects placed in the conveyor. When any metal contamination is passed through the metal detector unit, the same is detected and announced by the system. A metal detector is a conductive coil that produces an electromagnetic field. When a conductive metal object enters this electromagnetic field, it causes a disruption. The disruption is detected and can be used to initiate an action, such as stopping a belt or activating a reject mechanism to eject or push out the metal.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/01/2020

(21) Application No.202041003637 A
(43) Publication Date : 07/02/2020

(54) Title of the invention : AN EXTENDABLE AND HEIGHT ADJUSTABLE CEILING FAN WITH EJECT ABLE BLADES

(51) International classification :F04D0025080000,E05B0077260000,F24F0011770000,F24F0007007000,F24F0007060000
(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

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(57) Abstract :
An extendable and height adjustable ceiling fan with eject able blades is essential to make the ceiling fans to suit any living space irrespective of the size of the living room or height of the ceiling of the living room. The invention aims at designing and implementing a height adjustable ceiling fan which is based on Internet of Things to save the usage data regarding the fan from time to time. Also the fan is enclosed with plurality of sensors to control the fan from the mobile phone of the user along with child lock mechanism. The height of the piston is adjusted using an actuator and the blades of the fans are also extended to suit the living space. The important aspect of the invention is to save Non- renewable energy resource and to record the usage of fan data on daily basis. The data regarding the usage of fan will be saved on a cloud server that can be used for future references.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/05/2018

(21) Application No.201841017390 A
(43) Publication Date : 25/05/2018

(54) Title of the invention : APPARATUS TO AUTOMATICALLY DRAW TWO-DIMENSIONAL DRAWING

(51) International classification	:F16H 55/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
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(87) International Publication No	: NA
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(62) Divisional to Application Number Filing Date	:NA :NA

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13)Mr.BALAJI KRUSHNA POTNURU

(57) Abstract :
An apparatus to draw a two-dimensional drawing from a representation of the drawing stored in a memory of a computing unit. The apparatus includes a housing unit, X-axis guideway, Y-axis guideway, limit fixer unit, horizontal rod, and software module. The housing unit comprises a controller unit, motor unit and pulley, and writing holder. The controller unit receives instructions pertaining to the drawing from the computing unit. The motor unit and pulley drive the housing unit on X-axis and Y-axis. The writing holder holds writing unit to draw the drawing. The X-axis guideway and Y-axis guideway enable the housing unit to move over the X and Y-axis. The limit fixer unit fixes a dimensional limit to draw the drawing based on a dimension of the drawing platform and paper. The software module instructs the controller unit to draw the drawing based on the instructions fed by the user.

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

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2017

(21) Application No.201741036984 A
(43) Publication Date : 27/10/2017

(54) Title of the invention : SMART COMPACT STRUCTURAL INSTRUMENT

(51) International classification	:G05G9/047, G09G5/08
(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

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14)DINESH KUMAR U

(57) Abstract :
The present invention relates to a smart compact structural instrument use for measuring, drawing and displaying the dimension of line, angle, circle and triangle. A smart compact structural instrument for drawing line, angle, circle and triangle, comprise of the ruler, circular protector and a compass in which circular protector is connected at the one end of ruler in the other end the handle and the switch is connected. Plurality of capacitance sensor is connected to the ruler and the circular protector. The main unit which is comprises of a controller, a calculator, a battery, a capacitance sensor, a display, numeric keypad and a sketch holder. To draw/measure line, angle, circle and triangle the main part with the sketch holder moves along the ruler, from the center point to the end of the ruler. The plurality capacitance sensors present in the circular protector and in the ruler sense the dragging and the drawing of the shape of line, angle, circle and triangle and send to the sensor present in the main unit. The main unit receives the data and shows the dimension in the display. The user can enter dimension of shape before drawing the shape and can calculate the appropriate dimension of the shape using the calculator available in the main unit of the smart compact structural instrument.

No. of Pages : 14 No. of Claims : 8