INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

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भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	415041
आवेदन सं. / Application No.	:	202241032399
फाइल करने की तारीख / Date of Filing	:	06/06/2022
पेटेंटी / Patentee	:	1.Dr.T.Mariprasath 2.Dr.V.Kirubakaran 3.Mrs. P.Saraswathi

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A SYSTEM AND PROCESS FOR PREDICTING STATUS OF THE TRANSFORMER'S INSULATION MATERIALS AND FAULT नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2022 के छठे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A SYSTEM AND PROCESS FOR PREDICTING STATUS OF THE TRANSFORMER'S INSULATION MATERIALS AND FAULT as disclosed in the above mentioned application for the term of 20 years from the 6th day of June 2022 in accordance with the provisions of the Patents Act,1970.

पेटेंट कार्यालय THE PATENT OFFICE GOVT.OF INDIA भारत सरकार

अनुदान की तारीख : 21/12/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2024 के छठे दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 6th day of June 2024 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2019

(21) Application No.201941038110 A
(43) Publication Date : 18/10/2019

(54) Title of the invention : A HEURISTIC AND BIASES SCALE (HBS) MODEL OF CHANGE REQUEST ARTIFACTS (CRA)

(51) International classification :G06F3/0362
(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 fingerprint recognition mechanism and device are given. A sensor detects a fingerprint (110). A digital background is then removed from the fingerprint impression and is printed differently (115) & (120). A fingerprint templates database matches the differentiated print (135) & (150). The fingerprint input device will have an encoder (130) that encrypts digital biometric information with a biometric input device to transfer the coded data to the biometric validator, using concealed data that is identical to the biometric data coming from input/output device (105). A method of authenticating a persons identity through biometric fingerprint matching (165), that includes a biometric fingerprint pattern being stored beforehand in database (150). In order to create a authentication key to save and fetch this biometric template, this cryptographic algorithm encodes the biometric blueprint using a secret password known to the person. This key is encrypted/decrypted bye the system (175) for the biometric fingerprint authentication process.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2019

(21) Application No.201941045175 A
(43) Publication Date : 29/11/2019

(54) Title of the invention : MI-SAFE: AN ANDROID APPLICATION FOR RAILWAY MAINTAINACE STATUS.

(51) International classification	:G05B19/41
(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 my Invention MI-SAFE • The Indian Railway is one of the most important used of running transportation. All of you know the railway system to operate flawlessly constant monitoring and continuous inspection of railway tracks is required. Currently railway track inspection and monitoring is done manually which is time taking and not accurate, due to the high chance of human error occurrence. So in this invention MI-SAFE • , we develop an Android Application (MI-SAFE •) which is able to accept all analytical data from Indian railway maintenance, control department and perform multiple task, such as conversion data to graphical form, helping workers to locate the site of maintenance, material quantity and tools required, maintain records. As this application will make the maintenance lot easier by address problem much efficiently. In this invention also detect and indicate the problem and give probable solution.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2018

(21) Application No.201811034642 A
(43) Publication Date : 08/03/2019

(54) Title of the invention : CONTINUOUS FLOW VERMI-REACTOR FOR FAST TRACK URBAN SOLID WASTE TREATMENT

(51) International classification :C05F17/0009
(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 :
I-VERMI-REACTOR: CONTINUOUS FLOW VERMI-REACTOR FOR FAST TRACK URBAN SOLID WASTE TREATMENT defines a functionality used to restrict an authorized access to the devices having confidential as well as personal data. Solid waste generation from urban neighborhood i.e. URBAN SOLID WASTE (USW) is very large - 1.523 to 2.210 kg/c/d.; of which 41 to 86 % is organic. Aerobic and anaerobic composting is tried for USW management. Aerobic composting systems: windrows, batch: very slow process, needs large areas and long retention times (9 to 11 weeks), and therefore not economically doable in developing countries like India. Anaerobic composting systems: (landfills) are usually accepted method for disposal of organic component of USW and solid waste residue. Landfills particularly ill maintained are not eco-friendly, release greenhouse gases, pollute (through leach ate migration) water resources ground water plus surfaces downstream, require large areas (7 - llha/lack population) and needs long retention time (few years). Vermicomposting is an ecofriendly process is very commonly used and universally adopted for solid waste management in agro-fields, where retention time is not a deciding parameter, land being amply available. Batch reactors for MSW using Endrilus Eugenia/Eisenia Foetida indicated process completion period of 20 days. Continuous flow reactor in vessel Vermicomposting is tried for manure, food waste, bio-solids and other organic residuals. However, this technology is not yet tried on large scale for USW management under controlled conditions. It requires less space and run on decentralized basis inside the city area by reducing conveyance time and cost. The studies were undertaken through this research work, by a framework of understanding and implementation of biological and engineering principles underlying with a particular attention of continuous-flow reactor technologies. EiseniaFoetida used to produce vermicastings requiring minimum Retention Times under optimum environmental conditions. The end point of process is based on end product characteristic. This work develops models for collection and conveyance, and standardizes the process kinetic rate constant for Vermicomposting flow reactor. This also reveals that the standardization of environmental parameters and performance, in order to access the efficacy of the Vermicomposting process. RT (Retention Time) as less as 15 to 18 days, using specially designed continuous-flow vermin-reactor Finally, this research work proposes continuous-flow vermin-reactor is a possible good alternative for USW management in and around urban areas and quicker circulation of nutrients (Vermicomposting) to ecosystem.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202041020254 A
(43) Publication Date : 29/05/2020

(54) Title of the invention : 5-G MOBILE NETWORK: MANAGE AND UPDATE IP CONNECTION IN A 5-G MOBILE NETWORK

(51) International classification	:H04W0076250000, H04W0080040000, H04L0029080000, H04W0052020000, H04W0052440000
(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 :
Patent Title: 5-G Mobile Network: MANAGE AND UPDATE IP CONNECTION IN A 5-G MOBILE NETWORK My invention 5-G Mobile Network • is a technology for IP [=internet Protocol] communication between a mobile terminal and its correspondent available node in a 5-G mobile network. The technology comprises establishing (2-2) an IP connection between the mobile terminal and its correspondent node. After detecting a period of inactivity time in the IP connection, (2-4) keep-alive messages are sent via the IP connection at predetermined (5 to 7 Second) intervals, which are varied. The technology comprises monitoring (2-6) the lengths of several periods of inactivity time at which the 5-G mobile network disconnects the IP connection. Based on the monitored lengths of periods (5 second to 7 second) of inactivity time, a maximum interval (TINT) between keep-alive messages (100 byte) is determined (2-8) such that the maximum interval time meets a predetermined criterion of statistical confidence, and the interval between keep-alive messages is set (2-10) to the maximum interval (TINT). At least one of the parties monitors the lengths of several periods of inactivity at which the 5-G mobile network disconnects the IP connection.

No. of Pages : 27 No. of Claims : 9

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

(21) Application No.201821049329 A
(43) Publication Date : 25/01/2019

(54) Title of the invention : I-KEY : INTELLIGENT KEY PATTERN ACTIVE THROUGH BIOMETRIC INPUT

(51) International classification	:G10L 21/0364 G10L 21/057	
(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 invention is protected to the house that we live in, the prized possessions, all our glittering jewels, and even the dangerous criminals have one thing in common, and that is, all of these are kept secure under the lock and key. Thus, the lock and key are pretty important things. The lock and key mechanism that we use doesnt provide us full security as the lock can be unlocked by anyone who has a key for it. But what if a system is introduced where the key would identify its owner The KI-System is an answer to it. The KI-System is basically an intelligent key that recognizes its owner with the help Biometrics and Mechanics. The Key has two main components, i.e. The Bow (the broad part that is used to hold the key and apply torque on it) and The Blade (the elongated part that enters the lock and aligns with the internal system of the lock and unlocks it on applying a certain amount of torque). In the KI System, the modifications are made on these two components to make this key an intelligent key. The Bow is modified into the biometric scanner which is the main component for letting anyone have access to use the key. After a person holds the key by its bow, the 1-Key moves towards its first stage, i.e. IDENTIFICATION & VERIFICATION The scanner scans the thumbprint of the person holding the key and then identifies it and the process of verification begins. If the owner is verified, the 1-Key moves on to its next stage i.e. DISPLACEMENT OF THE GROOVES. This takes place in the Blade part. The cuts or the grooves make any key unique to open a certain lock. The grooves of this key start to displace from the original position to a new one to form a different groove pattern altogether. After the completion of this process, the key can easily be used to open the lock that it is meant for. The owner can choose the nominees for the lock so that they too can have access to open the lock through the key via the KI System. If in case, the thumbprint is not verified, the siren on the bow will start to beep, thus indicating that the person trying to get access to the key is not the actual owner of the key. The 1-Key thus prohibits everyone except the key owner and the nominees from getting access to open the lock.

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

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

(21) Application No.201821049324 A
(43) Publication Date : 25/01/2019

(54) Title of the invention : I-SIGN : INTELLIGENT SIGN DEVICE WITH REAL DATE AND TIME

(51) International classification	:G06K 9/00 G06F 21/00
(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 This device is Raspberry Pi/ Arduino based hardware device which is used to sign the multiple paper documents without any Human efforts. This device works on the signature pattern of the user recorded using Touchpad or any other device with the help of replaceable general ink/ball/gel pens. In this device, Biometric recognition hardware is also used which gives this a security feature to reduce the offensive use of the device. The device needs an energy source to operate therefore it will also have batteries (lithium/lead/dry cell or other cells as per their efficiencies) which can be recharged again when it loses its energy. Generally, we have many apps which can develop a digital signature of the user but there is not any device which can sign the document in the place of the user using a pen but this device will sign the document using desired pens of the user. This device will have a paper slot of different size in which we can set paper, and locate the device where they want to sign the document. The batteries of the device can be charged using Solar Energy which makes this device further Eco-Friendly and also it will save a lot of time and effort for the user. Any changes in the user information in the device can be done only by using biometric impression of the user; otherwise, the users data cant be altered.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2019

(21) Application No.201941041897 A
(43) Publication Date : 25/10/2019

(54) Title of the invention : RMT-AAPS: RAILWAY MAINTAINACE STATUS TRACK THROUGH MOBILE AAPS

(51) International classification :H05B37/02
(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
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(57) Abstract :
RMT-Aaps: RAILWAY MAINTAINACE STATUS TRACK THROUGH MOBILE AAPS [520] ABSTRACT In my Invention RMT-AAPS • The Indian Railway is one of the important used of running transportation. All of you know the railway system to operate flawlessly constant monitoring, Maintain ace and continuous inspection of railway tracks , in side equipment is required. Currently railway track, in side equipment , inspection is done manually which is time taking and not accurate, due to the high chance of human error occurrence. So in this invention RMT-AAPS • , we develop an Android Application (RMT-AAPS •) which is able to accept all analytical data from Indian railway maintenance dept., control department and perform multiple task, such as conversion data to graphical form, helping workers to locate the site of maintenance, material quantity and tools required, maintain records. As this application will make the maintenance lot easier by address problem much efficiently. Methods and systems for a vehicle system that include determining whether a vehicle action is necessary and providing a notification to predetermined users. Sensors provide signals to a sensing control system to generate the notification.

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/01/2020

(21) Application No.202041001470 A

(43) Publication Date : 17/01/2020

(54) Title of the invention : AWS-Device: ADVANCED WOMAN SAFETY DEVICE USING MICROPROCESSOR AND DEEP LEARNING PROGRAMMING

(51) International classification :G08B0025010000,G08B0021020000,G06F0001160000,G08B0021040000,G06F0003010000

(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 :
AWS-Device: ADVANCED WOMAN SAFETY DEVICE USING MICROPROCESSOR AND DEEP LEARNING PROGRAMMING
ABSTRACT The invention â€œAWS-Deviceâ€• is full relates to a wearable accessory including a detachable/removable circuitry housing, a vibration generation means for producing a vibration, the vibration generation means housed within the housing, at least one switch for allowing a user of the wearable accessory to cause activation of the vibration generation means, the switch housed within the housing, a module for communicating with at least one handheld device using a communication protocol, an image capturing device including a microphone for receiving audio and video signals at the wearable accessory, a USB port for charging the wearable accessory, a multiple-bit microprocessor is configured and coupled for controlling functions of the wearable accessory, the microprocessor housed within the housing and a storage means for storing data representative of the signals, the storage means coupled with the microprocessor

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2020

(21) Application No.202041012331 A
(43) Publication Date : 08/05/2020

(54) Title of the invention : HTVM-BLOCK CHAIN SYSTEM: HEALTHCARE TRANSACTION VALIDATION AND MEDICAL OBSERVATION CARE USING BLOCK CHAIN SYSTEM.

(51) International classification :G06Q0050220000,G16H0010600000,G06Q0020400000, G06Q0010100000,G06Q0020060000
(31) Priority Document No :NA
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(33) Name of priority country :NA
(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
HTVM-Block Chain System: HEALTHCARE TRANSACTION VALIDATION AND MEDICAL OBSERVATION CARE USING BLOCK CHAIN SYSTEM. ABSTRACT The invention HTVM-Block Chain System Interestingly, the above known proof-of-work (POW) systems have only focused on transaction processing or authentication. It has yet to be appreciated that POW systems could be deployed in other areas. One market that is fraught with issues includes healthcare systems that manage large volumes of electronic medical records (EMR). Example issues include enforcing privacy, standards compliance, interoperability, data format conversion, ensuring proper treatment applied to a patient, and especially the difficulty maintaining a continuity of treatment records for individuals. Also The invention HTVM-Block Chain System • You know healthcare transaction validation systems and methods are presented in many other ways but healthcare transactions integrated with an all type of stakeholder are compiled into a chain of healthcare transaction blocks. The chain can be considered a chronicle of person's healthcare path through life Spain. When a transaction is conducted, the corresponding healthcare parameters (e.g., storage date, first input Data, outputs, clinical evidence, outcomes, etc.) are sent to one or more integrated validation devices. The devices establish a validity of the transaction and generate a block chain through a proof of all work method. Once the block has been calculated it can be appended to the stakeholder's health care block chain and also the case study validates the various country through chain method.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.202021049215 A

(43) Publication Date : 27/11/2020

(54) Title of the invention : DESIGN AND DEVELOPMENT OF IOT BASED HEALTH CARE SYSTEM USING WEARABLE DEVICES

(51) International classification	:A61B5/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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9)Dr.Kavitha S,Dayananda Sagar College of Arts,Science and Commerce

10)M. Revathi,Vignan Lara Institute of Technology and Science

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(57) Abstract :

Rapid growth of population along with their aging has led to major issue as health care of elders throughout the world. Technology plays significant role in improving the quality of care service along with decreased manpower burden at low cost. Several entrepreneurs from health care industry have started seeking the assistance of technology for solving the issue of elderly care. This invention proposes IoT (Internet of Things) based health care system using wearable devices for generating notification of any abnormalities. Physiological parameters are recorded by wearable devices such as body tag, smart clothes and health watch which collect raw data which is then updated to the database for generating the personal report of elder™s health analysis. If any abnormal value above the threshold, then the care notification system generates alerts and sent to care takers of the elders. Health management of elders with high blood sugar and high pressure becomes feasible by this invention as the care takers are able to get regular notifications about the condition of the elders at low cost with higher accuracy compared to conventional systems.

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

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

(21) Application No.202041050451 A
(43) Publication Date : 27/11/2020

(54) Title of the invention : IOT BASED OPTIMIZED MANAGEMENT OF RENEWABLEENERGY MICROGRIDS

(51) International classification :H02J3/02
(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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4)Dr. M.N.Faruk
5)Dr. R. Saravanan
6)Sivakumar R. D.
7)Dr Vivek Uprit
8)Dr. Krishnamoorthy R
9)Dr.Y.N.Vijaya Kumar
10)Dr.S L Prathapa Reddy
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3)Abhijeet D. More
4)Dr. M.N.Faruk
5)Dr. R. Saravanan
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7)Dr Vivek Uprit
8)Dr. Krishnamoorthy R
9)Dr.Y.N.Vijaya Kumar
10)Dr.S L Prathapa Reddy

(57) Abstract :
Renewable energy has distributed generation as significant challenge where energy generation and consumption are generally located in nearness. A solution is provided by microgrid for this challenge as it avails integration of distributed generation reliably which includes storage of energy and controlled loads. Microgrid is a electricity generation system that operates in bidirectional mode allowing electricity distribution from suppliers to consumers through digital technology. Hence Microgrids boosts integration of renewable energy sources thereby optimizing energy management through Internet of Things (IoT). This invention designs and develops wireless sensor network system in integration with webbased platform for optimal management of microgrid through continuous monitoring. High capability of data processing with high storage capacity is availed by integrated IoT platform with LoRaWan technology for deploying and implementing low power wireless remote monitoring network for optimized management of microgrids.

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

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OF

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Search Results

Your search for **SMART REAL TIME ENERGY MANAGEMENT SYSTEM USING THINGSPEAK FOR SMART CITIES** returned **1** result.

null quickSearch

	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2020103477	SMART REAL TIME ENERGY MANAGEMENT SYSTEM USING THINGSPEAK FOR SMART CITIES	.K, Kamala MS; Dugaya, Neeti MS; Jain, Shafali DR; Mallikarjuna, Bestha MR; R, Krishnamoorthy DR; R. D., Sivakumar MR; Rajput, Seema MS; Rao, P.V. Gopi Krishna DR; Reddy, S L Prathapa DR; Reddy, T Sunil Kumar DR	Jain, Shafali; Mallikarjuna, Bestha; .K, Kamala; Reddy, T Sunil Kumar; R. D., Sivakumar; Dugaya, Neeti; Rajput, Seema; Reddy, S L Prathapa; Rao, P.V. Gopi Krishna; R, Krishnamoorthy	2020-11-17	GRANTED

This data is current as of **2022-09-25 18:00 AEST**.

Application Details

2020103477
: SMART REAL TIME ENERGY MANAGEMENT SYSTEM USING THINGSPEAK FOR SMART CITIES

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Application details

Australian application number	2020103477	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2022-11-17	**First IPC Mark**	***H02J 3/14*** (2006.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	SMART REAL TIME ENERGY MANAGEMENT SYSTEM USING THINGSPEAK FOR SMART CITIES				
Inventor(s)	Jain, Shafali ; Mallikarjuna, Bestha ; .K, Kamala ; Reddy, T Sunil Kumar ; R. D., Sivakumar ; Dugaya, Neeti ; Rajput, Seema ; Reddy, S L Prathapa ; Rao, P.V. Gopi Krishna ; R, Krishnamoorthy				
Agent name	JADHAV, JAGANNATH DR	**Address for legal service**	NSW 4064 Australia show full address		
Filing date	2020-11-17	**Australian OPI date**	2021-01-28	**OPI published in journal**	
Effective date of patent	2020-11-17	**Expiry date**	2028-11-17		
Additional/Divisional application number		**Additional/Divisional relationship**			

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Applicant	Dugaya, Neeti MS	**Applicant address**	Madhya Pradesh, 462041 India
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Applicant	Reddy, T Sunil Kumar DR	**Applicant address**	Andhra Pradesh 517583 India
Applicant	.K, Kamala MS	**Applicant address**	Tamil Nadu 603203 India
Applicant	Jain, Shafali DR	**Applicant address**	Madhya Pradesh 462041 India
Applicant	Mallikarjuna, Bestha MR	**Applicant address**	Andhra Pradesh, India
Old name(s)			

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(21) 2020103429 (22) 13.11.2020
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(51) Int. Cl.
A47B 47/00 (2006.01)
A47B 77/06 (2006.01)
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(51) Int. Cl.
H02J 3/14 (2006.01)
G06Q 50/06 (2012.01)
(45) 28.01.2021
(72) Jain, Shafali; Mallikarjuna, Bestha; .K, Kamala; Reddy, T Sunil Kumar; R. D., Sivakumar; Dugaya, Neeti; Rajput, Seema; Reddy, S L Prathapa; Rao, P.V. Gopi Krishna; R, Krishnamoorthy
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(51) Int. Cl.
G06N 20/00 (2019.01)
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H04W 4/38 (2018.01)
H04W 84/18 (2009.01)
(45) 28.01.2021
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(51) Int. Cl.
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A01H 17/00 (2006.01)
C12R 1/645 (2006.01)
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(45) 28.01.2021
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(11) AU-A-2020103489
(21) 2020103489 (22) 17.11.2020
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(51) Int. Cl.
C05F 17/20 (2020.01)
C05F 5/00 (2006.01)
C12R 1/07 (2006.01)
C12R 1/11 (2006.01)
C12R 1/145 (2006.01)
C12R 1/47 (2006.01)
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(45) 28.01.2021
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C02F 11/02 (2006.01)
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C05F 5/00 (2006.01)
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B60L 58/18 (2019.01)
B60L 50/61 (2019.01)
B60L 58/12 (2019.01)
B60L 58/22 (2019.01)
G01S 19/42 (2010.01)
H02J 7/14 (2006.01)
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(74) ARUN SUNDARAM

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(21) 2020102996 (22) 24.10.2020
(54) AN EFFICIENT AIR CONDITIONER WITH SELF SANITIZING TECHNIQUES
(51) Int. Cl.
F24F 11/39 (2018.01)
B08B 1/02 (2006.01)
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B08B 15/00 (2006.01)
F24F 1/0073 (2019.01)
F24F 1/035 (2019.01)
F24F 13/28 (2006.01)
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(72) K.C., RAMYA; J., JANET; S., SHEEBA RANI; V., GOMATHY; S., SIVARANJANI; G., RADHAKRISHNAN; R., SUMATHI; KUMAR, K. VINOTH; KUMAR, S. SURESH; R., SARAVANAKUMAR; A., RADHIKA; B., STALIN; D., PRITIMA
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PATENTS

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Application Details

2020103338
: MULTIFUNCTIONAL CARRIER PROVISION TO EASE HANDLING STRAIN IN LAPTOP

BIBLIOGRAPHIC DATA

Application details

Australian application number	2020103338	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2022-11-10	**First IPC Mark**	***A45C 9/00*** (2006.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	MULTIFUNCTIONAL CARRIER PROVISION TO EASE HANDLING STRAIN IN LAPTOP				
Inventor(s)	MURUGANANDAM, D. ; JAYAPRIYA, J. ; PRATHAPA REDDY, S.L. ; BHASKAR REDDY VANGALA, NAGA ; ANAND BALASUBRAMANIAN, KARTHIK ; RAMAMURTHI, AIYAPPAN ; SUNDERAJAN, NARASIMMAN ; RADHAKRISHNAN, MURUGANANDAM ; PRAGHASH. K.				
Agent name	HUMCEN	**Address for legal service**	VIC 3030 Australia show full address		
Filing date	2020-11-10	**Australian OPI date**	2021-01-21	**OPI published in journal**	
Effective date of patent	2020-11-10	**Expiry date**	2028-11-10		
Additional/Divisional application number		**Additional/Divisional relationship**			

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Old name(s)			

Search Results

Your search for **2020103338** returned **1** result.

null quickSearch

	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2020103338	MULTIFUNCTIONAL CARRIER PROVISION TO EASE HANDLING STRAIN IN LAPTOP	ANAND BALASUBRAMANIAN, KARTHIK; BHASKAR REDDY VANGALA, NAGA; HUMCEN CO; JAYAPRIYA, J.; MURUGANANDAM, D.; PRAGHASH, K.; PRATHAPA REDDY, S.L.; RADHAKRISHNAN, MURUGANANDAM; RAMAMURTHI, AIYAPPAN; SUNDERAJAN, NARASIMMAN	MURUGANANDAM, D.; JAYAPRIYA, J.; PRATHAPA REDDY, S.L.; BHASKAR REDDY VANGALA, NAGA; ANAND BALASUBRAMANIAN, KARTHIK; RAMAMURTHI, AIYAPPAN; SUNDERAJAN, NARASIMMAN; RADHAKRISHNAN, MURUGANANDAM; PRAGHASH. K.	2020-11-10	GRANTED

This data is current as of **2022-09-25 18:00 AEST**.

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(71) Nanjing Forestry University; Jiangsu Academy of Agricultural Science
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(71) Nanjing Forestry University
(21) 2020103256 **(22)** 05.11.2020
(54) Flower arrangement pottery and pottery ball capable of prolonging the service life of fresh cut flowers

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(71) Nanjing Forestry University
(21) 2020103259 **(22)** 05.11.2020
(54) A kind of high-precision machine fitting cleaning device for decomposing ozone-containing wastewater

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(71) Nanjing Forestry University
(21) 2020103265 **(22)** 05.11.2020
(54) PREPARATION METHOD OF FERMENT WITH HIGH-ACTIVITY INGREDIENTS

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(71) Nanjing Forestry University
(21) 2020103269 **(22)** 05.11.2020
(54) STABLE AND ENVIRONMENTALLY FRIENDLY COMBUSTION METHOD FOR BIOMASS GASIFICATION COMBUSTIBLE GAS, AND ENVIRONMENTALLY FRIENDLY COMBUSTION CHAMBER

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(71) Nanjing Forestry University
(21) 2020103271 **(22)** 05.11.2020
(54) COMPOSITE BIOLOGICAL FEED ADDITIVE

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(71) Nanjing Forestry University
(21) 2020103295 **(22)** 06.11.2020
(54) An indoor animal feeding device for controlling temperature and humidity

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(71) Nanjing Forestry University
(21) 2020103351 **(22)** 10.11.2020
(54) Preparation method of green plum essence

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(71) Nanjing Forestry University; Xuzhou Sannong Biotechnology Limited
(21) 2020103400 **(22)** 11.11.2020
(54) A fermented plant feed additive for weaned piglet

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(71) Nanjing Forestry University; Yangzhou Polytechnic College
(21) 2020103423 **(22)** 13.11.2020
(54) Identification Method of Land Suitable for Afforestation in Karst Area Based on Neural Network System

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(71) Nanjing Forestry University
(21) 2020103454 **(22)** 16.11.2020
(54) A Method for Expression of High Enzyme Active Amylase

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

(21) Application No.202041055437 A
(43) Publication Date : 25/12/2020

(54) Title of the invention : SYSTEM AND A METHOD FOR AN INTELLIGENT/AUTOMATIC TUNING OF POWER CONVERTER OF ELECTRIC VEHICLE FOR CHARGING THE BATTERY THEREOF

(51) International classification :B60L 53/30
(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 :
ABSTRACT OF THE INVENTION Nowadays the electric vehicles are so popular and occupying the roads in pace manner. Different manufacturers are involving in the electric vehicles manufacturing business and making different kind of electric vehicles with unique technology and elements. Charging stations are plays a vital role in refilling the energy to the storage unit of the vehicle. Each manufacturer adopting the battery in their vehicle with different rating due to which it is difficult to charge the battery with an appropriate voltage and current values. This issue has been addressed through this invention. The ways and means of charging the battery in electric vehicle is proposed here so as to improve the battery performance and its reliability. While purchase the electric vehicle, the electric vehicle and battery details such as battery make, manufacturing year, type & ratings such as voltage, Ampere hour (Ah) are send to the IoT database. The IoT is universally permitted to assess by all the charging stations. While charging the electric vehicle at the charging station, the information on the battery is sensed through its communication channel and verified with the database available in IoT. And at the same time, the information on the battery and vehicle is also transferred and or stored in the local controller which located at the charging station. The communication between the charging station and the local control unit is made through wireless or wired mode based on the convenience. Local control unit has the memory and the programme which decides the value of duty cycle of the charging converter. The DC charging unit has the capability of both slow and fast charging and it is supplied with either or both renewable energy source and the grid. The local control unit sends the signal to the DC charging unit and accordingly the appropriate ad hoc firing pulses are generated so that the charging parameters like voltage and current which matching with the battery are fixed and the estimated charging time is informed to the customer. These parameters are fixed based on the type, condition and past history of battery charging time for full charge. This invention breaks the existing charging methodology and enhances the performance of electric vehicle™s battery.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/04/2021

(21) Application No.202141019605 A

(43) Publication Date : 07/05/2021

(54) Title of the invention : GREEN ENERGY GENERATION SYSTEM WITH GAS AND MECHANICAL ELEMENTS

(51) International classification	:F03G0007100000, E05F0001100000, F03B0017020000, A23B0004052000, G01B0003000000
(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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5)Mr. G. HUSSAIN BASHA

6)Mr. K. KALYAN KUMAR

7)Mr. NEERATISIDDHIK

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6)Mr. K. KALYAN KUMAR

7)Mr. NEERATISIDDHIK

(57) Abstract :

Agreen energy generation system with gas and mechanical elements a spring unit (I) further comprises of spring, connecting rod with rack arrangement at both the edges, initially the spring is kept in compressed state and a smoke generator (2) is placed inside which simulated to produce the smoke thereby the compressed spring tend to expand therein the smoke is raise in pressure, this initiates the movement in the spring due to low pressure at initial stage and high pressure creates force over a spring unit (1), a rack and pinion unit (3) getting rotation force thereby a connecting unit (4) and which in turn a generator (5) producing green energy. It is thereby green energy produced without polluting the atmosphere.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/07/2021

(21) Application No.202141031115 A
(43) Publication Date : 23/07/2021

(54) Title of the invention : MODIFIED ELECTRICAL HEAT ELEMENT FOR BINDER BASED 3D PRINTING FOR SUPPLEMENTAL HEATING

(51) International classification	:B33Y0010000000, B33Y0030000000, B22F0003105000, B33Y0050020000, B33Y0040000000
(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 modified electrical heat element for binder based 3d printing for supplemental heating, comprising of, wherein the 3d printer (1) starts printing component (6) layer over layer, therein, the printing head (2) acts as a dispensing unit therein, the temperature sensor (5) is placed thereby to measure the temperature at the material gets dispense. The temperature sends input to the pre UV lamp (4) therein the binder evaporates evenly and gets bind with the adjacent particles as well as with the previous layer which was already printed, that is the immediate layer on top the printing is achieved. The post UV lamp (3) ensures the every layer of already printed layer to attain the prescribed temperature range.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/10/2021

(21) Application No.202141047414 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : Intelligent hybrid implementation of EV and smart grid charging station

(51) International classification :B60L0053630000, B60L0053300000, B60L0055000000, B60L0053510000, H02J0007000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
In a power grid where charging stations are interconnected with the power grid, and electric vehicles are connected to the charging stations, an expert system manages a grid-tie inverter (if present) within the charging stations to selectively backfill power from connected electric vehicles to the power grid through the expert system. When used more conventionally, the expert system permits charging of electric vehicles while also considering customer preferences for things like charging time, charging cost, and charging station capabilities, all while never going overboard on the power grid's available capacity. To determine the battery's state of charge, a technique is given that uses sampling voltages and currents to compute an open circuit voltage (OCV) and then maps that value to a previously measured reference OCV (ROCV) to determine the battery's state of charge (SOC). The OCV-SOC calculation technique is expected to work with any battery type and any current profile in terms of battery types and current profiles.

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

Search Results

Your search for **METHOD FOR EVALUATING LIQUID DIELECTRIC CHARACTERISTICS AND FEASIBILITY OF PONGAMIA PINNATA OIL AS LIQUID DIELECTRICS** returned **1** result.

null quickSearch

	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2021100929	METHOD FOR EVALUATING LIQUID DIELECTRIC CHARACTERISTICS AND FEASIBILITY OF PONGAMIA PINNATA OIL AS LIQUID DIELECTRICS	Kirubakaran, V. DR; Mariprasath, T. DR	Mariprasath, T.; Kirubakaran, V.	2021-02-18	GRANTED

This data is current as of **2022-09-25 18:00 AEST**.

Application Details

2021100929
: METHOD FOR EVALUATING LIQUID DIELECTRIC CHARACTERISTICS AND FEASIBILITY OF PONGAMIA PINNATA OIL AS LIQUID DIELECTRICS

BIBLIOGRAPHIC DATA

Application details

Australian application number	2021100929	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2023-02-18	**First IPC Mark**	**G01N 27/22** (2021.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	METHOD FOR EVALUATING LIQUID DIELECTRIC CHARACTERISTICS AND FEASIBILITY OF PONGAMIA PINNATA OIL AS LIQUID DIELECTRICS				
Inventor(s)	Mariprasath, T. ; Kirubakaran, V.				
Agent name	Mariprasath, T. DR	**Address for legal service**	VIC 5021 Australia show full address		
Filing date	2021-02-18	**Australian OPI date**	2021-05-13	**OPI published in journal**	
Effective date of patent	2021-02-18	**Expiry date**	2029-02-18		
Additional/Divisional application number		**Additional/Divisional relationship**			

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Old name(s)			

IPC details
Priority details
Associated provisional(s)

SPECIFICATION/E-REGISTER

EDOSSIER

LIFECYCLE DETAILS

FEE/PUBLICATION HISTORY

OWNERSHIP DETAILS

OPPOSITIONS, DISPUTES & AMENDMENTS

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2021

(21) Application No.202141002322 A
(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFICIENT DESIGN OF MECHATRONIC VEHICLE BRAKING SYSTEMS

(51) International classification :B60R16/037
(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)Mr. S Vijaya Kumar
5)Mr. U. Pradeep Kumar
6)Mr. D Merwin Rajesh

(57) Abstract :
Prosperity and steady nature of current vehicles can be improved by Stopping consequently (ABS by and large), traction control structure, etc. The balance control of the vehicle should be conceivable totally or to some degree by the independent ABS system. The wheel slip is usually kept inside a certain predefined run for a non-freezing halting instrument by using an on-off control framework. In case of single wheel or bicycle model simply consistent common stacking on the wheels is considered, while, for a four-wheel vehicle model interesting normal stacking on the wrangles flat powers are considered for the strong arrangement of easing back component. So, the controller plan needs compromise with the different subsystems of the vehicle components model. The vehicle halting system components and its control for a four-wheel vehicle is appeared here. As the different subsystems of the vehicle live in different imperativeness regions, the interdisciplinary showing technique security chart is used here for showing and control of the system. As the bond diagram gives a deliberate and reformist showing condition, it is a ton of significant for the exhibiting of vehicle dynamic structure. The evaluation of execution of the ABS system under various working conditions is done through bond diagram illustrating. Solidified regenerative and antilock easing back down in electric/cream electric vehicles gives higher prosperity despite imperativeness taking care of capacity. Improvement of control law for such an easing back system is a troublesome task. A sliding mode controller (SMC) for ABS is made to keep up the ideal slip regard. The easing back down of the vehicle, performed by using both regenerative whats more, antilock easing back down, relies upon a computation which picks how to scatter the hindering force between the regenerative easing back down and the antilock easing back down in emergency/alert hindering conditions similarly as in common city driving conditions. It is found that with joined regenerative and antilock easing back down, the vehicles security increases (similar to stopping partition and portability) and some proportion of engine imperativeness can be recovered and taken care of in the regenerative battery pack. The voyager comfort is improved when a sliding mode ABS controller is used rather than standard ABS controller for the mechanical hindering part.

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

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

(21) Application No.202041055503 A
(43) Publication Date : 01/01/2021

(54) Title of the invention : VARIABLE MATERIAL DELIVERY 3D PRINTING SYSTEM

(51) International classification	:H05K 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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4)Dr.K.KARTHIKEYAN

(57) Abstract :
The next industrial revolution is additive manufacturing. Most of the world became faster in their own technology. Since the additive manufacturing also growing enormously, the present invention supports the way with the increased speed to proceed to next level. This invention is also to flexible and not involved much cost because the modification is being done only from the standard existing input to provide the speeder version of additive manufacturing printers.

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

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

(21) Application No.202141006976 A
(43) Publication Date : 26/02/2021

(54) Title of the invention : METHOD OF SYNTHESISING HYBRID METAL NATURAL FIBER COMPOSITE AND 3D PRINTING THEREOF

(51) International classification	:B33Y0070000000, B22F0003000000, C04B0026120000, B33Y0010000000, C08L0097020000
(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: - The invention is all about the synthesisation of weird metal alloy with natural fiber powder along with simple 3D printing method. During synthesisation, need to identify the suitable binder in this case, which plays pivotal role. The synthesised material should be in suitable state to print, for that simple 3D printing technique is used along with modification of supplying the heat from the printer bed. The post process is carried out after printing it should be coated with a layer of same metal and or metal alloys. It is required to keep in the oven to evaporate the binder which is added to composite. The composite after evaporation of binder become harder than the printed one. It has to be examined for the internal defects. The other pivotal parameter to look into this printed composite specimen possesses better strength.

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

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

(21) Application No.202141006976 A
(43) Publication Date : 26/02/2021

(54) Title of the invention : METHOD OF SYNTHESISING HYBRID METAL NATURAL FIBER COMPOSITE AND 3D PRINTING THEREOF

(51) International classification	:B33Y0070000000, B22F0003000000, C04B0026120000, B33Y0010000000, C08L0097020000
(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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No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.202141006976 A

(43) Publication Date : 26/02/2021

(54) Title of the invention : METHOD OF SYNTHESISING HYBRID METAL NATURAL FIBER COMPOSITE AND 3D PRINTING THEREOF

(51) International classification	:B33Y0070000000, B22F0003000000, C04B0026120000, B33Y0010000000, C08L0097020000
(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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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Abstract: - The invention is all about the synthesisation of weird metal alloy with natural fiber powder along with simple 3D printing method. During synthesisation, need to identify the suitable binder in this case, which plays pivotal role. The synthesised material should be in suitable state to print, for that simple 3D printing technique is used along with modification of supplying the heat from the printer bed. The post process is carried out after printing it should be coated with a layer of same metal and or metal alloys. It is required to keep in the oven to evaporate the binder which is added to composite. The composite after evaporation of binder become harder than the printed one. It has to be examined for the internal defects. The other pivotal parameter to look into this printed composite specimen possesses better strength.

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

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

(21) Application No.202141006976 A
(43) Publication Date : 26/02/2021

(54) Title of the invention : METHOD OF SYNTHESISING HYBRID METAL NATURAL FIBER COMPOSITE AND 3D PRINTING THEREOF

(51) International classification	:B33Y0070000000, B22F0003000000, C04B0026120000, B33Y0010000000, C08L0097020000
(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: - The invention is all about the synthesisation of weird metal alloy with natural fiber powder along with simple 3D printing method. During synthesisation, need to identify the suitable binder in this case, which plays pivotal role. The synthesised material should be in suitable state to print, for that simple 3D printing technique is used along with modification of supplying the heat from the printer bed. The post process is carried out after printing it should be coated with a layer of same metal and or metal alloys. It is required to keep in the oven to evaporate the binder which is added to composite. The composite after evaporation of binder become harder than the printed one. It has to be examined for the internal defects. The other pivotal parameter to look into this printed composite specimen possesses better strength.

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

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

(21) Application No.202041055503 A
(43) Publication Date : 01/01/2021

(54) Title of the invention : VARIABLE MATERIAL DELIVERY 3D PRINTING SYSTEM

(51) International classification	:H05K 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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3)Mr.JANA SURESH BABU
4)Dr.K.KARTHIKEYAN
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3)Mr.JANA SURESH BABU
4)Dr.K.KARTHIKEYAN

(57) Abstract :
The next industrial revolution is additive manufacturing. Most of the world became faster in their own technology. Since the additive manufacturing also growing enormously, the present invention supports the way with the increased speed to proceed to next level. This invention is also to flexible and not involved much cost because the modification is being done only from the standard existing input to provide the speeder version of additive manufacturing printers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2021

(21) Application No.202141002322 A
(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFICIENT DESIGN OF MECHATRONIC VEHICLE BRAKING SYSTEMS

(51) International classification :B60R16/037
(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 :
Prosperity and steady nature of current vehicles can be improved by Stopping consequently (ABS by and large), traction control structure, etc. The balance control of the vehicle should be conceivable totally or to some degree by the independent ABS system. The wheel slip is usually kept inside a certain predefined run for a non-freezing halting instrument by using an on-off control framework. In case of single wheel or bicycle model simply consistent common stacking on the wheels is considered, while, for a four-wheel vehicle model interesting normal stacking on the wrangles flat powers are considered for the strong arrangement of easing back component. So, the controller plan needs compromise with the different subsystems of the vehicle components model. The vehicle halting system components and its control for a four-wheel vehicle is appeared here. As the different subsystems of the vehicle live in different imperativeness regions, the interdisciplinary showing technique security chart is used here for showing and control of the system. As the bond diagram gives a deliberate and reformist showing condition, it is a ton of significant for the exhibiting of vehicle dynamic structure. The evaluation of execution of the ABS system under various working conditions is done through bond diagram illustrating. Solidified regenerative and antilock easing back down in electric/cream electric vehicles gives higher prosperity despite imperativeness taking care of capacity. Improvement of control law for such an easing back system is a troublesome task. A sliding mode controller (SMC) for ABS is made to keep up the ideal slip regard. The easing back down of the vehicle, performed by using both regenerative whats more, antilock easing back down, relies upon a computation which picks how to scatter the hindering force between the regenerative easing back down and the antilock easing back down in emergency/alert hindering conditions similarly as in common city driving conditions. It is found that with joined regenerative and antilock easing back down, the vehicles security increases (similar to stopping partition and portability) and some proportion of engine imperativeness can be recovered and taken care of in the regenerative battery pack. The voyager comfort is improved when a sliding mode ABS controller is used rather than standard ABS controller for the mechanical hindering part.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2021

(21) Application No.202141002322 A
(43) Publication Date : 22/01/2021

(54) Title of the invention : EFFICIENT DESIGN OF MECHATRONIC VEHICLE BRAKING SYSTEMS

(51) International classification	:B60R16/037
(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 :
Prosperity and steady nature of current vehicles can be improved by Stopping consequently (ABS by and large), traction control structure, etc. The balance control of the vehicle should be conceivable totally or to some degree by the independent ABS system. The wheel slip is usually kept inside a certain predefined run for a non-freezing halting instrument by using an on-off control framework. In case of single wheel or bicycle model simply consistent common stacking on the wheels is considered, while, for a four-wheel vehicle model interesting normal stacking on the wrangles flat powers are considered for the strong arrangement of easing back component. So, the controller plan needs compromise with the different subsystems of the vehicle components model. The vehicle halting system components and its control for a four-wheel vehicle is appeared here. As the different subsystems of the vehicle live in different imperativeness regions, the interdisciplinary showing technique security chart is used here for showing and control of the system. As the bond diagram gives a deliberate and reformist showing condition, it is a ton of significant for the exhibiting of vehicle dynamic structure. The evaluation of execution of the ABS system under various working conditions is done through bond diagram illustrating. Solidified regenerative and antilock easing back down in electric/cream electric vehicles gives higher prosperity despite imperativeness taking care of capacity. Improvement of control law for such an easing back system is a troublesome task. A sliding mode controller (SMC) for ABS is made to keep up the ideal slip regard. The easing back down of the vehicle, performed by using both regenerative whats more, antilock easing back down, relies upon a computation which picks how to scatter the hindering force between the regenerative easing back down and the antilock easing back down in emergency/alert hindering conditions similarly as in common city driving conditions. It is found that with joined regenerative and antilock easing back down, the vehicles security increases (similar to stopping partition and portability) and some proportion of engine imperativeness can be recovered and taken care of in the regenerative battery pack. The voyager comfort is improved when a sliding mode ABS controller is used rather than standard ABS controller for the mechanical hindering part.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2022

(21) Application No.202241046021 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : APPLICATIONS OF ROBOTIC DEVICES IN HANDLING AUTOMATED BUILDING CONSTRUCTION TECHNOLOGY

(51) International classification :G06Q0010060000, G06F0008200000, G06Q0030020000, F16B0007040000, G06F0016900000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The construction industry is a significant financial area, yet it is persecuted with failures and low efficiency. Mechanical technology and computerized frameworks can possibly address these deficiencies; nevertheless, the degree of reception in the development business is exceptionally low. This invention presents an examination concerning the business explicit factors that limit the reception in the development business. A blended exploration technique was utilized joining writing survey, subjective and quantitative information assortment and investigation. Three center gatherings with 25 specialists also, an internet-based poll were led. Head part and connection investigations were directed to bunch the distinguished factors and track down secret connections. The distinguished difficulties were assembled into four classes and positioned arranged by significance: worker for hire side financial variables, client-side monetary elements, specialized and work-culture factors, and frail business case factors. No solid relationship was found among factors. This invention will assist partners with understanding the fundamental business explicit elements restricting the reception of advanced mechanics and mechanized frameworks in the development business. The introduced findings will uphold partners to devise alleviation techniques. This invention gives a significant guide in future exploration and utilization of mechanization and advanced mechanics innovation for tall structures.

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

Australian Government

IP Australia

33

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021105267

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

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Title of invention:

A Comprehensive Methodology for Agricultural Field Irrigation Infrastructure Monitoring There off

Name of inventor(s):

Panyam Vuppu, Gopi Krishna Rao; Ratulavathu, Hanuma Naik; S L, Prathapa Reddy; Vangala, Nagabhaskar Reddy; Kalimi, Muralidhara Reddy and Panyam Vippu, Rupa

Term of Patent:

Eight years from 11 August 2021

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 27th day of October 2021

Commissioner of Patents

Search Results

Your search for **2021105267** returned **1** result.

null quickSearch

	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2021105267	A Comprehensive Methodology for Agricultural Field Irrigation Infrastructure Monitoring There off	Kalimi, Muralidhara Reddy DR; Panyam Vippu, Rupa MRS; Panyam Vuppu, Gopi Krishna Rao DR; Ratulavathu, Hanuma Naik; S L, Prathapa Reddy DR; Vangala, Nagabhaskar Reddy DR	Panyam Vuppu, Gopi Krishna Rao; Ratulavathu, Hanuma Naik; S L, Prathapa Reddy; Vangala, Nagabhaskar Reddy; Kalimi, Muralidhara Reddy; Panyam Vippu, Rupa	2021-08-11	GRANTED

This data is current as of **2022-09-25 18:00 AEST**.

Application Details

2021105267
: A Comprehensive Methodology for Agricultural Field Irrigation Infrastructure Monitoring There off

BIBLIOGRAPHIC DATA

Application details

Australian application number	2021105267	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2023-08-11	**First IPC Mark**	**G05B 13/02** (2021.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	A Comprehensive Methodology for Agricultural Field Irrigation Infrastructure Monitoring There off				
Inventor(s)	Panyam Vuppu, Gopi Krishna Rao ; Ratulavathu, Hanuma Naik ; S L, Prathapa Reddy ; Vangala, Nagabhaskar Reddy ; Kalimi, Muralidhara Reddy ; Panyam Vippu, Rupa				
Agent name	Panyam Vuppu, Gopi Krishna Rao DR	**Address for legal service**	NSW 2750 Australia show full address		
Filing date	2021-08-11	**Australian OPI date**	2021-11-11	**OPI published in journal**	
Effective date of patent	2021-08-11	**Expiry date**	2029-08-11		
Additional/Divisional application number		**Additional/Divisional relationship**			

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Old name(s)			

IPC details
Priority details
Associated provisional(s)

SPECIFICATION/E-REGISTER

EDOSSIER

LIFECYCLE DETAILS

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021103916

The Commissioner of Patents has granted the above patent on 25 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

MACHINE LEARNING BASED OBESITY ANALYSIS FOR EARLY DETECTION OF HEART DISEASE

Name of inventor(s):

Kumar, P. Santhosh; Reddy, S. L. Prathapa; Rajakumari, Kavitha Esther; Sneha, Yerram; Murthy, Ch. V. Ramana; Varigonda, Ravikanth; Pathuri, Ruchitha Sree; Veladi, Sai Harshini; Bhattacharya, Sumanta; Dixit, Chandra Kumar; Mangal, Adarsh and Gummadi, Anand Kumar

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 25th day of August 2021

Commissioner of Patents

Search Results

Your search for **2021103916** returned **1** result.

null quickSearch

	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2021103916	MACHINE LEARNING BASED OBESITY ANALYSIS FOR EARLY DETECTION OF HEART DISEASE	Bhattacharya, Sumanta DR; Dixit, Chandra Kumar DR; Gummadi, Anand Kumar MR; Kumar, P. Santhosh DR; Mangal, Adarsh DR; Murthy, Ch. V. Ramana DR; Pathuri, Ruchitha Sree MS; Rajakumari, Kavitha Esther DR; Reddy, S L Prathapa DR; Sneha, Yerram MS; Varigonda, Ravikanth; Veladi, Sai Harshini MS	Kumar, P. Santhosh; Reddy, S. L. Prathapa; Rajakumari, Kavitha Esther; Sneha, Yerram; Murthy, Ch. V. Ramana; Varigonda, Ravikanth; Pathuri, Ruchitha Sree; Veladi, Sai Harshini; Bhattacharya, Sumanta; Dixit, Chandra Kumar; Mangal, Adarsh; Gummadi, Anand Kumar	2021-07-07	GRANTED

This data is current as of **2022-09-26 18:00 AEST**.

Application Details

2021103916
: MACHINE LEARNING BASED OBESITY ANALYSIS FOR EARLY DETECTION OF HEART DISEASE

BIBLIOGRAPHIC DATA

Application details

Australian application number	2021103916	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2023-07-07	**First IPC Mark**	**G16H 50/20** (2021.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	MACHINE LEARNING BASED OBESITY ANALYSIS FOR EARLY DETECTION OF HEART DISEASE				
Inventor(s)	Kumar, P. Santhosh ; Reddy, S. L. Prathapa ; Rajakumari, Kavitha Esther ; Sneha, Yerram ; Murthy, Ch. V. Ramana ; Varigonda, Ravikanth ; Pathuri, Ruchitha Sree ; Veladi, Sai Harshini ; Bhattacharya, Sumanta ; Dixit, Chandra Kumar ; Mangal, Adarsh ; Gummadi, Anand Kumar				
Agent name	JADHAV, JAGANNATH DR	**Address for legal service**	VIC 3978 Australia show full address		
Filing date	2021-07-07	**Australian OPI date**	2021-09-09	**OPI published in journal**	
Effective date of patent	2021-07-07	**Expiry date**	2029-07-07		
Additional/Divisional application number		**Additional/Divisional relationship**			

Applicant details
IPC details
Priority details
Associated provisional(s)

SPECIFICATION/E-REGISTER

EDOSSIER

LIFECYCLE DETAILS

FEE/PUBLICATION HISTORY

OWNERSHIP DETAILS

OPPOSITIONS, DISPUTES & AMENDMENTS

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Submission of Relevant Material (S27,S28)

This data is current as of **2022-09-26 18:00 AEST**.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2021

(21) Application No.202141019605 A
(43) Publication Date : 07/05/2021

(54) Title of the invention : GREEN ENERGY GENERATION SYSTEM WITH GAS AND MECHANICAL ELEMENTS

(51) International classification	:F03G0007100000, E05F0001100000, F03B0017020000, A23B0004052000, G01B0003000000
(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 :
Agreen energy generation system with gas and mechanical elements a spring unit (I) further comprises of spring, connecting rod with rack arrangement at both the edges, initially the spring is kept in compressed state and a smoke generator (2) is placed inside which simulated to produce the smoke thereby the compressed spring tend to expand therein the smoke is raise in pressure, this initiates the movement in the spring due to low pressure at initial stage and high pressure creates force over a spring unit (1), a rack and pinion unit (3) getting rotation force thereby a connecting unit (4) and which in turn a generator (5) producing green energy. It is thereby green energy produced without polluting the atmosphere.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/07/2021

(21) Application No.202141031115 A
(43) Publication Date : 23/07/2021

(54) Title of the invention : MODIFIED ELECTRICAL HEAT ELEMENT FOR BINDER BASED 3D PRINTING FOR SUPPLEMENTAL HEATING

(51) International classification	:B33Y0010000000, B33Y0030000000, B22F0003105000, B33Y0050020000, B33Y0040000000
(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 :
A modified electrical heat element for binder based 3d printing for supplemental heating, comprising of, wherein the 3d printer (1) starts printing component (6) layer over layer, therein, the printing head (2) acts as a dispensing unit therein, the temperature sensor (5) is placed thereby to measure the temperature at the material gets dispense. The temperature sends input to the pre UV lamp (4) therein the binder evaporates evenly and gets bind with the adjacent particles as well as with the previous layer which was already printed, that is the immediate layer on top the printing is achieved. The post UV lamp (3) ensures the every layer of already printed layer to attain the prescribed temperature range.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/06/2022

(21) Application No.202241032399 A
(43) Publication Date : 17/06/2022

(54) Title of the invention : A SYSTEM AND PROCESS FOR PREDICTING STATUS OF THE TRANSFORMER'S INSULATION MATERIALS AND FAULT

(51) International classification :G01N0033280000, G01R0027020000, H01F0027320000, G06F0011300000, G01R0031620000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The system for predicting status of the transformer's insulation materials comprises a feature extraction module coupled to the transformer for extracting features of the transformers while rotating and at steady state using deep learning, wherein the feature extraction module comprises a UV-Vis spectroscope is an instrument to measure the reflectance or absorbance characteristics and an insulation tester to measure the insulating coefficient of sleeve pipe; a DGA analyzer equipped with a plurality of gas extractor for predicting status of the transformer's insulation materials at variable temperatures and to estimate quantity of combustible gas evolved from liquid dielectrics; a control unit to determine a fault upon detecting the relative change in impedance thereby classify into fault probability to provide classified signal values with position data to provide position associated fault probability values and thereafter generate a report of status of the transformer's insulation materials and fault along with site.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2022

(21) Application No.202241040210 A

(43) Publication Date : 22/07/2022

(54) Title of the invention : Electronic Virtual Assistant in Banks using Artificial Intelligence

(51) International classification :G06N0020000000, G10L0015220000, H04N0007180000, H04L0029060000, H04L0012240000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
A disclosed approach improves response times associated with responding to requests filed at one or more front-end systems. The method may be applied to one or more front-end systems. An intelligent virtual assistant that is part of one or more front-end systems is responsible for monitoring the presence of an utterance. The utterance allows for the deduction of at least one of three possible categories: purpose, context, and categorization. The inferring serves as the basis for the generation of one or more commands for the back end of the system. The selection of the one or more backend system commands is based on machine-learned mappings of at least one of the intent, the context, and the classification to machine-learned organization-specific pathways into the one or more backend systems. Specifically, the intent is mapped to the classification. The directives for the one or more backend systems are dispersed throughout those one or more backend systems. The intelligent virtual assistant will then send a response to the utterance so that it may be presented to the user. This response will include an aggregate of the one or more results that were received.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/08/2021

(21) Application No.202111036217 A
(43) Publication Date : 03/09/2021

(54) Title of the invention : A SYSTEM HAVING SYNCHRONOUS SIGNALING FOR INTERFACING VLSI CIRCUITS

(51) International classification	:G11C0007100000, G11C0007220000, G06F0013376000, G11C0011407600, G11C0008000000
(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 :
The present invention discloses a system having synchronous signaling for interfacing VLSI circuits. The system includes, but not limited to, a synchronous memory device connected to a clock receiver circuitry to receive external clock signals from an external bus for a VLSI circuit; a clock producing circuitry communicatively coupled to the clock receiver circuitry, for producing an internal clock signal having a clock edge which is synchronized with the external clock signal and generates another internal clock signal having a clock edge which is synchronized with the other external clock signal and providing a VLSI interface. Further, the synchronous memory device is having a plurality of sense amplifiers for data latching from a one memory cell location to the other memory cell location in response to a read request from the VLSI interface.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/09/2022

(21) Application No.202241052596 A

(43) Publication Date : 23/09/2022

(54) Title of the invention : MACHINE LEARNING BASED MULTI-STAGE SOLAR THERMAL POWER GENERATION AND POLY-GENERATION SYSTEM IN CLOUD COMPUTING AND ENVIRONMENT

(51) International classification :F03G0006060000, F25B0015000000, C09K0005020000, F28D0020020000, F02B0063040000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The present invention discloses a Machine Learning based Multi-Stage Solar Thermal Power Generation and Poly-Generation System in cloud computing and environment. The system is comprised of, but not limited to, a high temperature generator set enter generator set before the low temperature generator set, the high temperature generator set institute exhaust port, the thermal accumulator that is provided with different temperatures, be provided with heat-accumulating material in thermal accumulator, heat-accumulating material is selected from the following at least an or its combination: Water, conduction oil, solid-liquid phase change, solid-solid phase change materials, and fuse salt are examples of the first four. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911050943 A

(19) INDIA

(22) Date of filing of Application :10/12/2019

(43) Publication Date : 03/01/2020

(54) Title of the invention : EXCEEDED THE ATM NETWORK: ACCOUNT-HOLDER HAS EXCEEDED THE ATM NETWORK LIMIT

(51) International classification :G06Q0020200000,G06Q0020400000,G07F0019000000,G07F0007080000,G06Q0020180000

(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 Invention EXCEEDED THE ATM NETWORK A method of providing money, goods, services or the like to an account-holder based on an account when the daily ATM limit set by a bank has been met, or when a debit or credit card PIN cannot be remembered. The process will enable one to access cash and items of value through either the ATM network or a point-of-sale network to thereby obtain cash or an item of value. If the account-holder has exceeded the ATM network limit, a processor may prompt the account-holder to determine if the account-holder would like to access the account through the point-of-sale network. The money or item of value will be disbursed to the account-holder at a third location, where precautionary security measures may be utilized to ensure that the person receiving the cash is indeed the proper account-holder.

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

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

(21) Application No.202041055890 A
(43) Publication Date : 05/02/2021

(54) Title of the invention : Detection of critical safety events in manufacturing industries using data mining

(51) International classification :G05B19/00
(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 :
In recent times, safety management is an important factor in many industries. The industries are to be guided with an effective management method. The strategy in safety management includes incident reporting and an investigation system. The incident reporting systems are utilized in both individual plant-based systems and wide-industry systems. The main purpose of incident reporting systems is to provide effective safety management through the collection of data about the industries. The company manufacture™s machinery and equipment establishment are important in different industries including cement, defense, work machines, mining, wood, iron and steel, energy, and ship buildings. Field observations and focus groups are necessary for detecting the risk in different functional units and sectors. Determination of risk to the surrounding functional units, its effects, and analysis is required. Lack of information and ignorance of fault is responsible for risk. Risk management includes Occurrence of risk, collection of informational data related to risk, and analysis of data are a difficult task. The effective determination of risk and timely decision making is possible through the data mining technique. The complete details of the company and its structure help in the identification of accidents both in external and internal causes. In the workplace, the manufacturers face the risk factor in all directions. The nature of risk may vary from the simple model to the critical mode. Management and mitigation efforts are different and it is dependent on the exposure of risk in the manufacturing industries. This invention is intended for the development of safety measures in the industrial sector during an accident in the manufacturing industries. The proposed invention utilizes the data mining technique for continuous monitoring of the industrial activity and helps in identifying the risk during hazardous conditions. This invention develops a data mining model using the collection of previous data of critical risk and this proposed model is capable of solving a large number of problems in the manufacturing industries.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/02/2021

(21) Application No.202141004991 A

(43) Publication Date : 12/02/2021

(54) Title of the invention : SMART INDUSTRIAL MANUFACTURING USING LOW POWER WIDE CONNECTIVITY IOT BASED INGENU MACHINE TO MACHINE APPROACH

(51) International classification	:H04W0004700000, H04L0029060000, H04L0012280000, G06F0021440000, G05B0019418000
(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
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(57) Abstract :

Machine to machine approach has more demand in the upcoming technology as it is possible to connect multi-devices both in wide area network (WAN) and local area network (LAN). This invention is contemplated mainly for the automatic performance of machines in multi-industries without human interfacing. This invention involves the exchange of information autonomously based on the machine-to-machine approach. IoT M2M will consist of serial communication, power line, or Wi-Fi communication. Wi-Fi with M2M will make the exchange of information simpler and easier. IoT M2M will allow communication between the devices by self-tracking of its device and by automatic detection of responding devices in the surrounding. The advanced IoT-based machine-to-machine approach will initiate the rapid development of an industrial product, will also increase the product reclamation, support the contemporaneous opportunity of manufacturing product, and improved the supply chain. Industrial-Internet of Things (I-IoT) will enable interconnection among different things at any time in the manufacturing system will improve efficiency, productivity, intelligence, and safety. As a machine device will increase the conceivable of security threats like unauthorized monitoring, hacking, and data breaches. This invention is also intended to meet the production reclamation in the industry by developing a Socio Cyber-Physical System (SCPS) which helps in providing security from threats. The advanced big data technology is effective in manufacturing, helps in improving production efficiency and quality, and has a low power consumption. Smart industrial manufacturing on big data will bring a revolution to the conventional industry.

No. of Pages : 15 No. of Claims : 3

(51)

Search Results

Your search for **2020103756** returned **1** result.

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	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2020103756	NOISY TEXT PREDICTION IN LARGE VOLUME CLINICAL DATA USING REINFORCEMENT LEARNING	Behura, Aradhana; Devi, G.Naga Rama; K, Sathishkumar; Kumar, Ramesh; Nalinipriya, G.; Nandal, Rainu; Pratap, Ajay; Rao, Bottu Gurunadha; Reddy, V. Lokeswara; Sharma, Swati	Pratap, Ajay; Sharma, Swati; K., Sathishkumar; Devi, G. Naga Rama; Nandal, Rainu; Nalinipriya, G.; Reddy, V. Lokeswara; Kumar, Ramesh; Rao, Bottu Gurunadha; Behura, Aradhana	2020-11-29	GRANTED

This data is current as of **2022-09-26 18:00 AEST**.

Application Details

2020103756
: NOISY TEXT PREDICTION IN LARGE VOLUME CLINICAL DATA USING REINFORCEMENT LEARNING

BIBLIOGRAPHIC DATA

Application details

Australian application number	2020103756	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2022-11-29	**First IPC Mark**	***G16H 10/65*** (2018.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	NOISY TEXT PREDICTION IN LARGE VOLUME CLINICAL DATA USING REINFORCEMENT LEARNING				
Inventor(s)	Pratap, Ajay ; Sharma, Swati ; K., Sathishkumar ; Devi, G. Naga Rama ; Nandal, Rainu ; Nalinipriya, G. ; Reddy, V. Lokeswara ; Kumar, Ramesh ; Rao, Bottu Gurunadha ; Behura, Aradhana				
Agent name	Pratap, Ajay DR	**Address for legal service**	VIC 3978 Australia show full address		
Filing date	2020-11-29	**Australian OPI date**	2021-02-11	**OPI published in journal**	
Effective date of patent	2020-11-29	**Expiry date**	2028-11-29		
Additional/Divisional application number		**Additional/Divisional relationship**			

Applicant details
IPC details
Priority details
Associated provisional(s)

SPECIFICATION/E-REGISTER

EDOSSIER

LIFECYCLE DETAILS

FEE/PUBLICATION HISTORY

OWNERSHIP DETAILS

OPPOSITIONS, DISPUTES & AMENDMENTS

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	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2020103756	NOISY TEXT PREDICTION IN LARGE VOLUME CLINICAL DATA USING REINFORCEMENT LEARNING	Behura, Aradhana; Devi, G.Naga Rama; K, Sathishkumar; Kumar, Ramesh; Nalinipriya, G.; Nandal, Rainu; Pratap, Ajay; Rao, Bottu Gurunadha; Reddy, V. Lokeswara; Sharma, Swati	Pratap, Ajay; Sharma, Swati; K., Sathishkumar; Devi, G. Naga Rama; Nandal, Rainu; Nalinipriya, G.; Reddy, V. Lokeswara; Kumar, Ramesh; Rao, Bottu Gurunadha; Behura, Aradhana	2020-11-29	GRANTED

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Application Details

2020103756
: NOISY TEXT PREDICTION IN LARGE VOLUME CLINICAL DATA USING REINFORCEMENT LEARNING

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Application details

Australian application number	2020103756	**Patent application type**	Innovation		
Application status	GRANTED	**Paid to date**	2022-11-29	**First IPC Mark**	***G16H 10/65*** (2018.01)
Currently under opposition	No	**Proceeding type(s)**			
Invention title	NOISY TEXT PREDICTION IN LARGE VOLUME CLINICAL DATA USING REINFORCEMENT LEARNING				
Inventor(s)	Pratap, Ajay ; Sharma, Swati ; K., Sathishkumar ; Devi, G. Naga Rama ; Nandal, Rainu ; Nalinipriya, G. ; Reddy, V. Lokeswara ; Kumar, Ramesh ; Rao, Bottu Gurunadha ; Behura, Aradhana				
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Filing date	2020-11-29	**Australian OPI date**	2021-02-11	**OPI published in journal**	
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OPPOSITIONS, DISPUTES & AMENDMENTS

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/08/2021

(21) Application No.202141037190 A
(43) Publication Date : 27/08/2021

(54) Title of the invention : ROBUST OUTLIER DETECTION IN NOISY DATA CLASSIFICATION SYSTEM UNDER ABUNDANT MISLABELED TRAINING INSTANCES USING SVM LIE GROUP MACHINE LEARNING MODEL FOR BRAIN IMAGES

(51) International classification	:G01R0033480000, A61B0005055000, G06K0009620000, G16H0050700000, A61B0005000000
(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 :
Activity in the brain variations under deceit has rarely been developed using FMRI at a typical multi-subject group level. The capability to identify dishonest in-person participants, instead of cluster averages, will define the therapeutic use of functional magnetic resonance imaging (FMRI) in pattern recognition. Spatial patterns of cerebrum activity linked with dishonesty and truth have been distinguished using techniques of classification of larger non-linear patterns used for FMRI data. In an exercise of forced deception, 99% of correct and incorrect answers were expected to come from test cases. Predictive performance was 88% among untrained persons, as measured by cross-validation. The findings indicate that nonmachine learning techniques may be used to identify lies as well as other prospective clinical uses of fMRI in patient characteristics and that reliable clinical assessments might be predicated on fMRI measures of brain activity.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/08/2021

(21) Application No.202141038184 A

(43) Publication Date : 03/09/2021

(54) Title of the invention : Security enhancement method using logically centralized control plane of software defined networks

(51) International classification	:H04L0012240000, H04L0029080000, H02J0003000000, H04L0012803000, E21B0041000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// / :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The abstraction data plan, whose primary ingredient is software-based controllers, is a conceptual property of software-defined networks (SIDN). While the control plan is theoretically centralized, the controls themselves may be spatially dispersed and composed of multiple locations. The control plan is often constructed as distributed controller clusters to address the process improvement needs of large-scale network scenarios. The cluster monitoring system will track all types of events and maintain a stable state of the global network, resulting in multiple information in the SINs. However, due to the customizable and unpredictable environment of SINs, network security remains an unresolved issue. To solve the aforementioned issues, we offer a safe cluster computing framework for the optimal control and data planes associated with big data analytics. For cluster administration, a user authentication system is provided. In addition, we present an evolutionary computer technology that allows an initial massive data requirement and a network control analysis process. The simulation and comparison show that the suggested method is doable and effective. The suggested approach has a significant effect on the reliability and performance of the SIDN control aircraft.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/08/2021

(21) Application No.202141037147 A
(43) Publication Date : 27/08/2021

(54) Title of the invention : MULTICRITERIA OPTIMIZATION FOR IOT SERVICE COMPUTATION OFF LOADING FOR CLOUD COMPUTING

(51) International classification	:H04L0029080000, G06Q0010060000, G06N0003120000, G06F0009455000, G06F0009500000
(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 :
The Internet of mobile devices has been a popular technique for developing advanced mobile apps in recent years. The complexity and size of data analytics for processes increases as technological advances conflict with the limited resources of hand-held devices. The Edge Computing (EC) model addresses the impact significantly by outsourcing IT activities to the cloud. This study proposes the Computation Offloading Model (COM) approach to discharge calculation to achieve multi-objective optimization to reduce completion time and energy consumption for smartphones. We first examined the variable scheduling of processing elements and then used Non-dominated Sorting Genetic Algorithm (NSGA-III) to solve the multi-target optimization problem. Experimental results and evaluations are also conducted to verify that the proposed COM technique is effective in meeting the optimization challenge. We will change and develop the proposed technique in an actual Internet of Things (IoT) situation in future projects. In addition, we will analyze the various requirements of runtime processes, to discover an offload approach that would save the most energy on smartphones.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/12/2021

(21) Application No.202141058290 A

(43) Publication Date : 04/02/2022

(54) Title of the invention : CLOUD COMPUTING AND BIG DATA BASED CONSTRUCTION ASSESSMENT SYSTEM FOR ANDROID APPLICATIONS

(51) International classification :G06F0016245700, H04L0029080000, G06N0020000000, G06N0005040000, G06N0005020000

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

(87) 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 :

Traditional Mobile applications evaluation procedures throughout contemporary institutions include several number significant drawbacks, among such particular includes this same confinement between separate evaluation platforms, therefore reducing overall productivity but instead capability for individual analyzing activities. The goal was a provide one foundation which encourages making the inclusion of both internet technologies using large information insights towards the same development of appropriate evaluation systems. This program's virtualized architecture enables them could acquire processing power with substantially reduced expense, allowing them to combine diverse evaluation approaches to produce increasingly varied but accurate examination findings. Big Data Analytics (BDA) may be done upon vast examination findings and gain a better understanding regarding overall program protection condition thanks to having more consolidated knowledge depository from these same clouds. Aggregation but instead visualizations methodologies used within BDA give a much broader understanding of fundamental underpinning protection concerns but also predictions regarding whether best enhance business communication resources. SOA may be used through overall computer architecture to increase overall accessibility on analyzing findings by allowing relevant material should become given accessible expandable operations from different organizations. Furthermore, providing a part demonstration of underlying architecture implementations, another experimentation platform was created dependent around this same suggested foundation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2021

(21) Application No.202141058687 A
(43) Publication Date : 24/12/2021

(54) Title of the invention : IOT SYSTEM BASED ON BLOCKCHAIN TECHNOLOGY PRODUCES A SUPERIOR LEVEL OF SAFETY IN COMMUNICATION

(51) International classification :H04L0029080000, H04W0004700000, H04L0009060000, H04L0009080000, H04L0029060000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
This Internet of Things (IoT) was expanding with absolutely breakneck speed right now. Because a result of those multiple violations under defensive legislation, this same position represents serious concern towards public security. Furthermore, after this became initially established in Bitcoin, the evolution of the network has accelerated. The network could be used to tackle safety problems in the IoT. Making secured communications among IoT devices is one approach to do this. In this research, an IoT device shall be built without and with the network, & the two will be analyzed. MQTT is the connection method employed for networkingstuffed gadgets that do not employ the internet.However, Thorium was the network system of choice, combined with a smart contract. Through modeling assaults & examining their safety characteristics, both of the IoT devices will be evaluated for their safety degree. The outcomes from these tests reveal that an IoT system dependent on internet technologies is more secure than an IoT system that does not use internet technologies.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/08/2022

(21) Application No.202241047499 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : A METHOD AND SYSTEM FOR COLLABORATIVE SECURITY KEY GENERATION FOR AD-HOC INTERNET OF THINGS (IOT) NODES

(51) International classification :H04L0029080000, H04W0004700000, H04L0009080000, H04W0084180000, H04W0004080000
(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 :
[034] The present invention discloses a method and system for collaborative security key generation for Ad-Hoc Internet of Things (IoT) nodes. The present invention is to provide a system that contains an IoT based computing module that is set up to give a namespace to a number of Internet of Things (IoT) devices, each of which has a universal unique identifier (UUID) associated with it. The number of IoT devices is spread across many distinct locations. It is useful for the namespace and sub-namespaces to have simple-to-remember names that enable a user to recognizably identify and even group together the IoT devices by location and function. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/07/2021

(21) Application No.202141031114 A
(43) Publication Date : 23/07/2021

(54) Title of the invention : HYBRID 3D PRINTER WITH FLEXIBILITY IN ALL THE 3 AXES PRINTING

(51) International classification	:B33Y0030000000, B29C0064106000, B33Y0050020000, A61F0002300000, G03B0017560000
(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
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(57) Abstract :
A Hybrid 3d printer with flexibility in all the 3 axes of printing, comprising of a 3d printer (1), a motor for x-axis (2), a motor for y-axis (3), a motor for z-axis (4), a extruder motor (5) and a component (6), wherein, the 3d printer (1) comprises of the motor for x-axis (2) to provide specific movement in x- direction during printing, the motor for y-axis (3) separate control to move the bed, the motor for z-axis (4) control the rail movement over the vertical channel and the extruder motor (5) to extrude the material therein works in sequence from the input given by the 3d model specific alternation given electronically to print the component (6).

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/01/2021

(21) Application No.202141002713 A
(43) Publication Date : 29/01/2021

(54) Title of the invention : COMPRESSION BEHAVIOUR ON BETHAMCHERLA MARBLE STONE AGGREGATE

(51) International classification	:B44F 9/04
(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
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(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Abstract Concrete plays the most prominent role in the structural construction works, it is the most widely used as a construction material throughout the world. Based on the global usage, concrete is placed at second position over water. It plays a very significant role in the shaping our environment and sustainability of the construction industry. Ever since its discovery has become indispensable in construction practices, owing to its durable, reliable and workable properties. The name concrete is derived from the Latin term concretes□ meaning ˜grows together™ hinting at the chemical hydration process that causes the material inside to grow together from a visco-elastic state into a hard, dense and durable product. There are numerous plans of solid, which give differing properties, and cement is the most-utilized man-made item on the planet. Meanwhile we are not allowed to complete the natural resource usage in concrete. We have some waste materials which were not useful in that pattern of works. One of those materials is Bethamcherla marble stone aggregates as replacement of coarse aggregate in concrete. This paper represents the study of compressive strength of concrete for different combinations. The comparison is made between conventional aggregate cubes and cubes made with Bethamcherla marble stone aggregates (BMSA). The cubes of varying proportions are casted replacing partially and totally natural granite coarse aggregate (NGCA) with using BMSA. The cubes are tested by adding GI steel fibre of volume 0%, 1% and 2% of volume of conventional cube. It is observed that there is consistent decrease of compressive strength of concrete of 0, 25, 50, 75 and 100 % of replacement of natural granite coarse aggregate (NGCA) with Bethamcherla marble stone aggregates. It was also observed that strength increased (volume) when 1% and 2% of GI steel fibers were used compared with conventional cube.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/03/2022

(21) Application No.202241016690 A
(43) Publication Date : 08/04/2022

(54) Title of the invention : Waste Plastic and Kitchen Convert into an Energy.

(51) International Classification :G06Q0010060000, B09B0003000000, C10L0005460000, C10G0001000000, G09B0005000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT Our Invention Waste Plastic and Kitchen Convert into an Energy is a India's fast monetary development and change in way of life have expanded the degree of city strong waste (MSW) age in the country. The metropolitan urban communities in India are contributing a significant piece (in lakhs metric tons each day) of MSW. It is simply because of the absence of the accessibility of unfortunate framework to deal with MSW in the country. Additionally individuals' obliviousness towards dealing with this waste is likewise a major test to deal with this issue. The executions of minimal expense and easy to understand strategies are the essential prerequisites to deal with this sort of circumstance. It very well may be effectively anticipated that kitchen squander (KW) is contributing a significant part in MSW, and its obliviousness towards arranging off is expanding the ecological contamination step by step. It is the inspiration of the current work, and a complete survey of KW age in India is finished. A review in view of prefeasibility to deal with KW is additionally done, and in light of that, a practical arrangement is given to deal with KW on waste to energy for economical new business venture potential open doors in the current work. The proposed arrangement won't just decrease the degree of MSW in the nation however likewise set out a great will deal of open doors for work in the country for a group of people yet to come. The current work infers that establishment of this sort of pilot project in the metropolitan urban communities is the current requirement for the advancement of the reusing business area involving KW as a natural substance in India and furthermore Plastic squanders have presented genuine dangers to the climate, including diminishing of soil supplement viability and rural creation as well as arise of biological insecurity. Fuel change from plastic waste is viewed as a promising methodology for its removal and energy use. Plastic squanders can be changed over into target energizes by changing breaking of compound bonds. At present, various advances with respect to fuel change from plastic squanders have been accounted for, including traditional pyrolysis, novel hotness treatment and progressed oxidation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2022

(21) Application No.202241037005 A
(43) Publication Date : 22/07/2022

(54) Title of the invention : Pile supported Multi-layered Porous Media

(51) International classification :E02B0003060000, E02B0003120000, E21B0004160000, E02D0005460000, E02B0009080000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
The present invention discloses an innovative breakwater titled pile-supported multi-layered porous media to protect the rubble-mound rock core from vertical and horizontal displacements against the incident ocean waves. The breakwater consists of multiple porous layers place one on one horizontally to enhance the wave dissipation. The seaside and leeside interfaces of the breakwater rock core are protected with a pair of piles. Two shapes of vertical piles such as circular piles and rectangular piles are used to protect the rock core from the vertical and horizontal displacements. The maximum wave dissipation is plausible by the innovative breakwater when surface layer porosity is higher, middle layer porosity is moderate and bottom layer porosity is minimal. The multi-layered porous media tightly held within a pair of piles to protect the breakwater from vertical and horizontal displacements.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/10/2021

(21) Application No.202141047521 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : Early Detection of Depression and Anxiety Using AI and Mobile Device.

(51) International classification :G06Q0050220000, A61B0005160000, A61B0003032000, G16H0050200000, G16H0015000000
(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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5)Dr. Sujeeth, Associate Professor
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(57) Abstract :
ABSTRACT Our Invention Early Detection of Depression and Anxiety Using AI and Mobile Device Advances in computational limit, information assortment and AI are adding to an expanding interest in computerized reasoning (AI), as reflected by a new flood in financing and examination. Man-made intelligence includes numerous likely applications inside medication. It is being utilized to mechanize the public 111 emergency support and can recognize retinal pathology as viably as specialist ophthalmologists. Be that as it may, before AI can securely include an effect inside psychiatry, there are various issues which should be thought of, like limit and assent, information security and patient protection, and clinical administration. High commonness of psychological maladjustment and the requirement for powerful emotional well-being care, joined with late advances in AI, has prompted an expansion in investigations of how the field of AI (ML) can aid the location, conclusion and treatment of emotional wellness issues. A quantitative combination and subjective story audit of 54- research that were remembered for the examination surfaced normal patterns, holes, and difficulties in this space.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/03/2022

(21) Application No.202241016690 A
(43) Publication Date : 08/04/2022

(54) Title of the invention : Waste Plastic and Kitchen Convert into an Energy.

(51) International Classification :G06Q0010060000, B09B0003000000, C10L0005460000, C10G0001000000, G09B0005000000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
ABSTRACT Our Invention Waste Plastic and Kitchen Convert into an Energy is a India's fast monetary development and change in way of life have expanded the degree of city strong waste (MSW) age in the country. The metropolitan urban communities in India are contributing a significant piece (in lakhs metric tons each day) of MSW. It is simply because of the absence of the accessibility of unfortunate framework to deal with MSW in the country. Additionally individuals' obliviousness towards dealing with this waste is likewise a major test to deal with this issue. The executions of minimal expense and easy to understand strategies are the essential prerequisites to deal with this sort of circumstance. It very well may be effectively anticipated that kitchen squander (KW) is contributing a significant part in MSW, and its obliviousness towards arranging off is expanding the ecological contamination step by step. It is the inspiration of the current work, and a complete survey of KW age in India is finished. A review in view of prefeasibility to deal with KW is additionally done, and in light of that, a practical arrangement is given to deal with KW on waste to energy for economical new business venture potential open doors in the current work. The proposed arrangement won't just decrease the degree of MSW in the nation however likewise set out a great will deal of open doors for work in the country for a group of people yet to come. The current work infers that establishment of this sort of pilot project in the metropolitan urban communities is the current requirement for the advancement of the reusing business area involving KW as a natural substance in India and furthermore Plastic squanders have presented genuine dangers to the climate, including diminishing of soil supplement viability and rural creation as well as arise of biological insecurity. Fuel change from plastic waste is viewed as a promising methodology for its removal and energy use. Plastic squanders can be changed over into target energizes by changing breaking of compound bonds. At present, various advances with respect to fuel change from plastic squanders have been accounted for, including traditional pyrolysis, novel hotness treatment and progressed oxidation.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.202241027781 A

(43) Publication Date : 17/06/2022

(54) Title of the invention : A BIO-INFORMATION DATA TRANSFERRING SYSTEM BASED ON MULTIPLE BLOCKCHAINS AND METHOD THEREOF

(51) International classification :G16H0015000000, G16B0020000000, H04L0009060000, G06F0016160000, G06F0021620000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
The present invention discloses a bio-information data transferring system based on multiple blockchains and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: a user blockchain node configured for storing user information, a shared key, and a hash key for each user of a plurality of users and further a contract block data which includes contract information about a first user requesting a second user to provide bio-information data, the first user and the second user being included in the plurality of users. Accompanied Drawing [FIG. 1]

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2021

(21) Application No.202121059115 A
(43) Publication Date : 24/12/2021

(54) Title of the invention : A SYSTEM BASED ON DIGITAL IMAGE PROCESSING FOR UTILIZING DIFFERENTIAL IMAGE INTENSITY DETERMINATIONS AND METHOD THEREOF

(51) International classification :G06T0005400000, H04N0005235000, H04N0007180000, A61B0003120000, H04N0001400000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
[035] The present invention discloses a system based on Digital image processing for utilizing differential image intensity determinations and method thereof. The systemincludes, but not limited to, an image receiver unit positioned to receive an image through a plurality of lens, which includes at least one image sensor adapted to output digitized pixel signals having a first bit-width and multiple differential image intensities; andan image processing device for processing an un-clipped pixel data associated with the plurality of digital pixel signals using a histogram to obtain utilizing differential image intensity determinations and information. Accompanied Drawing [FIG. 1]

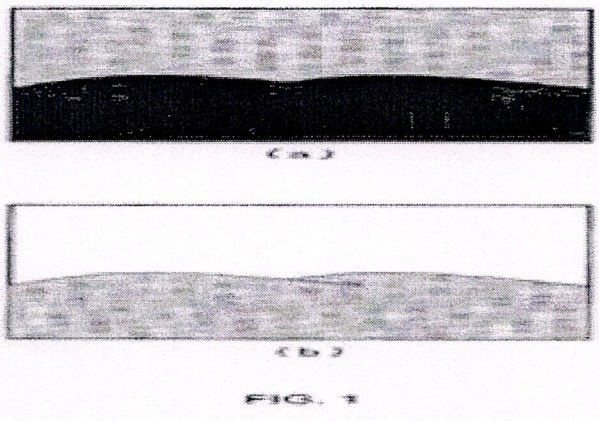

FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/08/2021

(21) Application No.202141035301 A
(43) Publication Date : 13/08/2021

(54) Title of the invention : A SYSTEM FOR CENTRALLY MANAGED CLOUD SERVICE BROKER AND THEIR PERFORMANCE ANALYSES

(51) International classification	:H04L0029080000, G06F0009500000, A63B0024000000, H04L0012911000, H04L0012927000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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8)Mr.Tarun Jaiswal
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10)Dr.K.G.S.Venkatesan

(57) Abstract :
[037] The present invention discloses a system for centrally managed cloud service broker and their performance analyses and method thereof. The method and system includes, but not limited to, a processing unit for real scientific computing workloads of many-task computing (MTC) users, that is, of users who employ loosely coupled applications comprising many tasks to achieve their scientific goals in a cloud network; an evaluator module performing an empirical evaluation of the performance of cloud computing services; and a comparative analyser to compare through trace-based simulation the performance characteristics and cost models of clouds and other scientific computing platforms, for general and MTC-based scientific computing workloads. Accompanied Drawing [FIG. 1]

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/10/2021

(21) Application No.202141047521 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : Early Detection of Depression and Anxiety Using AI and Mobile Device.

(51) International classification :G06Q0050220000, A61B0005160000, A61B0003032000, G16H0050200000, G16H0015000000
(86) International Application No Filing Date :PCT// :01/01/1900
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(61) Patent of Addition to Application Number :NA Filing Date :NA
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(57) Abstract :
ABSTRACT Our Invention Early Detection of Depression and Anxiety Using AI and Mobile Device Advances in computational limit, information assortment and AI are adding to an expanding interest in computerized reasoning (AI), as reflected by a new flood in financing and examination. Man-made intelligence includes numerous likely applications inside medication. It is being utilized to mechanize the public 111 emergency support and can recognize retinal pathology as viably as specialist ophthalmologists. Be that as it may, before AI can securely include an effect inside psychiatry, there are various issues which should be thought of, like limit and assent, information security and patient protection, and clinical administration. High commonness of psychological maladjustment and the requirement for powerful emotional well-being care, joined with late advances in AI, has prompted an expansion in investigations of how the field of AI (ML) can aid the location, conclusion and treatment of emotional wellness issues. A quantitative combination and subjective story audit of 54- research that were remembered for the examination surfaced normal patterns, holes, and difficulties in this space.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/09/2022

(21) Application No.202241053603 A
(43) Publication Date : 23/09/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED VIRTUAL SURGERY & MEDICAL PROCEDURE ASSESSMENT, INTERVENTION SYSTEM AND METHOD THEREOF

(51) International classification :A61B0090000000, A61B0017000000, A61B0034300000, A61B0006120000, G09B0023280000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention discloses an artificial intelligence based virtual surgery & medical procedure assessment, intervention system and method thereof. The system includes, but not limited to, an artificial intelligence based virtual environment is created by the simulation processing component using position signals to describe at least one of the position and configuration of a real surgical instrument in relation to the real surgical site; and the simulation processing component generates a simulation state signal that represents the virtual environment's current state. Further, at least one rendering module is set up to display an expandable tool selection panel with visual representations of a variety of surgical tools, and the system is set up to generate a graphical user interface that is designed to present at least one simulation image of a surgical environment in at least one central portion and secondary information in at least one periphery. Accompanied Drawing [FIGS. 1-2]

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

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(22) Date of filing of Application :04/09/2022

(21) Application No.202241050466 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : Blockchain Based Secure Biometric Voting System Using IoT

(51) International classification :A61K0031520000, A61P0043000000, H04N0005225000, H04N0007180000, G01N0033500000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
Abstract [500] Our Invention Blockchain Based Secure Biometric Voting System Using IoT is a there are numerous progressive advances in the democratic framework, these days individuals can record their vote by online from their remote spots, which saves investment. On the other viewpoint, significant perspective that must be considered is security in internet handling framework. Block chain innovation helps in keeping up with the protection from digital assaults in this application. This framework gives conveyed design of putting away the information and this dispersed engineering framework stores the information among various servers. While the democratic is made by individuals after their biometric affirmation, the square chain innovation helps in changing over the votes into the hash worth and save them to their comparing data set, where the unwavering quality of the information is kept up with. This innovation gives straightforwardness in the democratic framework and aside from the vote count the obscurity of individuals will be kept up with.[501] This guarantees the security of the citizens. So the proposed framework lays out the got casting a ballot framework which makes the electronic democratic framework effectively available. The client should sign in to the surveying framework utilizing his distinguishing pieces of proof. In our plan, the E-Voting framework will utilize his unique mark data presents in Aadhar card, and the democratic affirmation subtleties are given back to enrolled citizens by the nearby specialists. The methodology will check all information entered and, whenever coordinated with a legitimate citizen, the client will be approved to make a choice. This E-Voting framework will not permit individuals to make their singular personalities and record to cast a ballot.

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

(12) PATENT APPLICATION PUBLICATION
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(21) Application No.202241050466 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : Blockchain Based Secure Biometric Voting System Using IoT

(51) International classification :A61K0031520000, A61P0043000000, H04N0005225000, H04N0007180000, G01N0033500000
(86) International Application No :PCT// Filing Date :01/01/1900
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Abstract [500] Our Invention Blockchain Based Secure Biometric Voting System Using IoT is a there are numerous progressive advances in the democratic framework, these days individuals can record their vote by online from their remote spots, which saves investment. On the other viewpoint, significant perspective that must be considered is security in internet handling framework. Block chain innovation helps in keeping up with the protection from digital assaults in this application. This framework gives conveyed design of putting away the information and this dispersed engineering framework stores the information among various servers. While the democratic is made by individuals after their biometric affirmation, the square chain innovation helps in changing over the votes into the hash worth and save them to their comparing data set, where the unwavering quality of the information is kept up with. This innovation gives straightforwardness in the democratic framework and aside from the vote count the obscurity of individuals will be kept up with.[501] This guarantees the security of the citizens. So the proposed framework lays out the got casting a ballot framework which makes the electronic democratic framework effectively available. The client should sign in to the surveying framework utilizing his distinguishing pieces of proof. In our plan, the E-Voting framework will utilize his unique mark data presents in Aadhar card, and the democratic affirmation subtleties are given back to enrolled citizens by the nearby specialists. The methodology will check all information entered and, whenever coordinated with a legitimate citizen, the client will be approved to make a choice. This E-Voting framework will not permit individuals to make their singular personalities and record to cast a ballot.

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

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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/09/2022
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FIELD OF INVENTION	CHEMICAL
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(See section 11A (2), Rule 24A)

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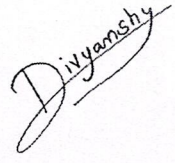
hereby request for early publication of my/our 202241050466 DATED 04 September 2022 UNDER SECTION 11A(2) OF THE ACT.



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The Controller of Patents,
The Patent Office,
DELHI\MUMBAI\KOLKATA\CHENNAI

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2018

(21) Application No.201811034647 A
(43) Publication Date : 20/03/2020

(54) Title of the invention : VILLAGE-ATM: MULTIMODAL BIOMETRIC SYSTEM FOR ONE STOPS BANKING FOR RULAR INDIA

(51) International classification :G06F11/27
( ) 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
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Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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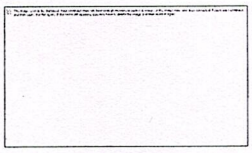
(57) Abstract :
The VILLAGE-ATM is a post office ATM. This VILLAGE-ATM is an ATM for the people who are living in rural area. This VILLAGE-ATM helps the people living in agrarian area to save even a single penny in post office account. The invention not only provides the basic facility of financial transaction but also provides advance facility of depositing coins and cash. This VILLAGE-ATM accepts coins. The VILLAGE-ATM also allows withdrawal of coins. Apart from this financial activity the VILLAGE-ATM supports purchasing and selling of virtual gold. The VILLAQE-ATM asks for amount for which the user wants to purchase gold. This amount gets reserved in the bank account. If the user wants to sell the virtual gold the user can also sell it by selecting the active user who wants to purchase the gold. When the user chooses to sell the gold the amount for which the gold is sold that amount will be credited in sellers account and purchaser will also get his virtual gold in the form of credited and reserved amount in the purchasers account. This VILLAGE-ATM is complete integrated all in one solution for any kind of banking solutions.



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