Details of Patents Published

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Appication)
1	202241073806	Published	Mr. kuda Eswara Rao	A novel composition and preparation method for crystal attain from THG generation using slow evaporation technique and XRD	Mr.Kuda Eswara Rao	20/12/2022	13/01/2023	202241073806	SITE
2	202241077459	Published	Dr. P. Rama Krishna Mr. Neelapala Venkat	Impact Of Employee Recession In Information Technology Ofindia	Dr. P. Rama Krishna Mr. Neelapala Venkat	31/12/2022	6/1/2023	202241077459	SITE
3	202341000212	Published	Dr. P. Rama Krishna Mr. Neelapala Venkat	Analyze Of Why Amazon Shutdown Online Learning In India	Dr. P. Rama Krishna Mr. Neelapala Venkat	3/1/2023	6/1/2023	202341000212	SITE
4	2341003284	Published	Dr. P. Rama Krishna Mr. Neelapala Venkat Mr.Malle Srinivasa Rao	Analysis Of Why Communication Skill Plays Major Role In Itsector For Selecting Employees	Dr. P. Rama Krishna Mr. Neelapala Venkat Mr.Malle Srinivasa Rao	17/01/2023	20/01/2023	202341003284	SITE
5	202341005617	Published	Mr. Neelapala Venkat	Impact And Adoption Of Social Network For Teamwork Inorganization	Mr. Neelapala Venkat	28/01/2023	10/2/2023	202341005617	SITE
6	202341007793	Published	Dr. P. Hemachandu	System For Interfacing The Artificial Intelligence With Distributed Smart Grids	Dr. P. Hemachandu	7/2/2023	17/02/2023	202341007793	SITE
7	202341011076	Published	Dr. Teki Vamsee Krishna	A Smart System For Air Quality Monitoring And Detect Forest Fires Using The Internet Of Things	Dr. Teki Vamsee Krishna	18/02/2023	17/03/2023	202341011076	SITE
8	202341014287	Published	Dr. P. Hemachandu	Smart Grids For Localising Abnormal Conditions Detection System And Method	Dr. P. Hemachandu	3/3/2023	17/03/2023	202341014287	SITE

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Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYY)	Patent Published Date / Granted	Patent Publication Number / Patent Granted	Assignee/s Name (Institute Affiliation/s at time of
9	379148-001	Published	Dr A V N Chandra Sekhar	IoT Based ECG monitoring Wearable device	Dr A V N Chandra Sekhar	12/2/2023	26/4/2023	133906	SITE
10	379888-001	published	Dr. P Siva Kumar	IOT based smoke and heat detector	Dr. P Siva Kumar	22/02/2023	12/5/2023	379888-001	SITE
11	380824-001	published	Dr. P Siva Kumar	Currency notes counting machines	Dr, Parthiban Mohandas	5/3/2023	17/05/2023	380824-001	SITE
12	379792-001	Published	Dr. P. Hemachandu	A Servo Amplifier Control Device	Dr. P Hemachandu	21/2/2023	19/5/2023	379792-001	SITE
13	202341054392	Published	Dr. Avagaddi Prasad	Rechargeable LED Lighting System with Color Modulation, Multiple Illumination levels, and Ultrasound Pest Contro	Dr. Avagaddi Prasad	13/08/2023	1/9/2023	202341054392	SITE
14	398076-001	Published	Dr. P Siva Kumar	Food and beverages serving trolly	Dr, Parthiban Mohandas	19/10/2023	23/11/2023	398076-001	SITE
15	202241056882	Published	Mr. kuda Eswara Rao	Flexible biodegradable polymer for delivering bio active compounds	Mr. kuda Eswara Rao	4/10/2022	14/10/2022	202241056882	SITE
16	202241068181	Published	Mr. kuda Eswara Rao	A nanotechnology based method for growing metallic nano clusters and composition	Mr. kuda Eswara Rao	27/11/2022	2/12/2022	202241068181	SITE
17	202241064970	Published	Dr. Avagaddi Prasad	Multi-Input Matrix Converter for Hybrid Solar and Wind System with Ex-OR Gate Logic	Dr. Avagaddi Prasad	13/11/2022	25/12/2022	202241064970	SITE
18	202141005573	Published	Dr. P HemaChandu Dr. R.Pavan Kumar Naidu Dr. Damodhar Reddy	Continuous Air Quality Monitoring system based on IoT	Dr. P HemaChandu Dr. R.Pavan Kumar Naidu Dr. Damodhar Reddy	10/2/2021	19/02/2021	202141005573	SITE
19	2020104377	Granted	Dr. Shaik Mohammad Rafee	Intelligent safe Home System for Elderly People	Shaik Mohammad Rafee	12/20/2020	17/03/2021	2020104377	SITE
20	202141015525	Published	Dr.K.S.BalaMurugan Dr. W.A.Augusteen Dr. P HemaChandu Dr. T J V Subrahmanyeswara Rao Dr CRS Hanuman Dr.G Srihari Dr.G Srihari Dr.Naveen Kishore Gattam M.Narendra Krishna	Smart Agriculture using IoT	Dr.K.S.BalaMurugan Dr. W.A.Augusteen Dr. P HemaChandu Dr. T J V Subrahmanyeswara Rao Dr CRS Hanuman Dr.G Srihari Dr.G Srihari Dr.Naveen Kishore Gattam M.Narendra Krishna	1/04//2021	16/04/2021	202141015525	SITE

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Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Appication)
21	202141017314	Published	Dr. K.Subhash Bhagavan Dr.Kiran Kumar Pulamolu	An Novel method to integration of AP with correlation of multidimensional end of line data mining	Dr. K.Subhash Bhagavan Dr.Kiran Kumar Pulamolu	14/04/2021	23/04/2021	202141017314	SITE
22	2.02141E+11	Published	Dr.Dumpa Prasad	A System and Method for Analysing Biological Effects of Molecules UsingMonte Carlo Method	Dr.Dumpa Prasad	10/7/2021	16/07/2021	202141031063	SITE
23	201941033895	Published	Dr. Bapaiah Choudary Ravipati	Bullock Cart Automation	Dr. Bapaiah Choudary Ravipati	22/08/2019	31/08/2021	201941033895	SITE
24	202141040185	Published	Dr. Avagaddi Prasad	Droop Characteristics based Power Supply for Electric Traction System	Dr. Avagaddi Prasad	9/4/2021	17/09/2021	202141040185	SITE
25	202141044534	Published	Dr.G.Naveen kumar	Design of Bioinspired Forest chassis robots on a slope	Dr.G.Naveen kumar	1/10/2021	8/10/2021	202141044534	SITE
26	202141047799	Published	Dr.M.V.S.S.Nagendranath Dr. K Subhash Bhagavan Dr. P Kiran Kumar Mr. P Rambabu Dr. KSN Prasad Dr. AVS Siva Rama Rao Mr. P Siva Kumar	Artificial Gorilla Troops optimization based multi-objective secure routing protocol for fog based wireless sensor networks	Dr.M.V.S.S.Nagendranath Dr. K Subhash Bhagavan Dr. P Kiran Kumar Mr. P Rambabu Dr. KSN Prasad Dr. AVS Siva Rama Rao Mr. P Siva Kumar	21/10/2021	29/10/2021	202141047799	SITE
27	202141048062	Published	Dr. K.Subhash Bhagavan Dr.M.V.S.S.Nagendranath Dr.P Kiran Kumar Dr.A.V.S. Siva Rama Rao Mr.P.Rambabu Dr.K.S.N. Prasad Mr.P Siva Kumar	Deep Learning with Elephant herd optimization algorithm Based Cyberbullying detection framework for online social networks	Dr. K.Subhash Bhagavan Dr.M.V.S.S.Nagendranath Dr.P Kiran Kumar Dr.A.V.S. Siva Rama Rao Mr.P.Rambabu Dr.K.S.N. Prasad Mr.P Siva Kumar	21/10/2021	5/11/2021	202141048062	SITE
28	202141047510	Published	Dr.P Kiran Kumar Dr.M.V.S.S.Nagendranath Dr. K.Subhash Bhagavan Dr.A.V.S. Siva Rama Rao	Hadoop Mapreduced based Big data classificataion model for indentifying fradulent trasnaction in banking sector	Dr.P Kiran Kumar Dr.M.V.S.S.Nagendranath Dr. K.Subhash Bhagavan Dr.A.V.S. Siva Rama Rao	20/10/2021	5/11/2021	202141047510	SITE
29	202041029576	Published	Dr. D Prasad	Smart Parking And Vehicle Name Plate Detection	Dr. D Prasad	12/7/2020	31/07/2020	202041029576	SITE

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Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Appication)
30	202041039998	Published	Dr. D Prasad	Machine Learning Based Smart Transportation System with Traffic Estimation for Big Data Analytics	Dr. D Prasad	15/09/2020	25/09/2020	202041039998	SITE
31	202041044180	Published	Dr. T J V Subrahmanyeswara Rao	Prana Mask 2020	Dr. T J V Subrahmanyeswara Rao	10/10/2020	16/10.2020	202041044180	SITE

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2022

(21) Application No.202241073806 A

(43) Publication Date : 13/01/2023

(54) Title of the invention : A novel composition and preparation method for crystal attain from THG generation using slow evaporation technique and XRD

(51) International classification :G01N0025480000, H01L0029240000, H01L0029220000, C07C0251860000, C08L0027120000

(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 crystal obtained via THG production was confirmed by XRD tests and a procedure called slow evaporation, which was performed at room temperature. Studies using the Fourier transform (FTIR), the Fourier transform Raman (FT-Raman), and nuclear magnetic resonance (NMR) revealed the existence of functional groups in the crystal while it was growing. The linear optical experiments in the UV-visible spectrum were carried out, and their results were validated by energy dispersive X-ray analysis (EDAX). Scanning electron microscopy was used in order to conduct an examination of the morphological surface of the formed crystal (SEM). The characterization investigations, which include differential thermal analysis (DTA), thermo gravimetric analysis (TGA), and differential scanning calorimetry (DSC) . The investigation of coumarin hydrazone derivatives from both a theoretical and an experimental perspective. Phenyl hydrazine and acetyl-3H-chromen-2-one are the two components necessary for the synthesis of coumarin hydrazones. The model came up with geometric optimization parameters such as the B3LYP/6-31G++G(d,p) approaches. Quantum chemical description of the single crystal, including HOMO and LUMO energies, the energy gap, chemical softness and hardness.

No. of Pages : 27 No. of Claims : 4

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Application Details

APPLICATION NUMBER	202241077459
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/12/2022
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TITLE OF INVENTION	IMPACT OF EMPLOYEE RECESSION IN INFORMATION TECHNOLOGY OF INDIA
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	06/01/2023

Principal
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/12/2022

(21) Application No.202241077459 A

(43) Publication Date : 06/01/2023

(54) Title of the invention : IMPACT OF EMPLOYEE RECESSION IN INFORMATION TECHNOLOGY OF INDIA

(51) International classification :G06Q0010060000, G06Q0010100000, A61K0036740000, H05K0007200000, C23C0014080000

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

(87) 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 :
Information Technology (IT) companies have been creating key employment opportunities for years. The sector offers huge pay hikes, employee benefits, and most importantly, work-from-home opportunities. This is the reason why most people opt for this field. In India, the sector has seen a growth of USD 227 billion in the last 10 years, and this growth is said to have created 0.45 million jobs in the current financial year. IT as corporate job losses rise to 30 percent, programmers are facing a livelihood crisis. They urge the government to enact a special occupational safety law for the sector. Whereas, IT On the one hand, there is job loss in companies. Leading companies including Twitter and Meta recently laid off thousands of employees to cut costs. In ... Study, in a study conducted by a company called Team Lease Digital, by the year 2025, I.T. 22 lakh jobs will be lost in the sector. This is attributed to economic recession. That is, the impact of the economic recession in America and Europe, which are India's largest export markets, has affected Indian IT. It is said to have caused the risk of job loss in companies. Especially IT. There have been allegations of companies threatening their employees and forcing them to resign.

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

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Department of Industrial Policy & Promotion,
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Application Details

APPLICATION NUMBER	202341000212
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/01/2023
APPLICANT NAME	1 . Dr. G. Sahaya Shiny 2 . Dr. P. Rama Krishna 3 . Mrs. A. Rajalakshmi 4 . Dr. R. V. Suganya 5 . Mr. Neelapala Venkat 6 . Dr. Sharif Mohd 7 . Dr. Jaishankar. R 8 . Mr. Vishwanath R Havalappagol 9 . Mrs. Pooja Kumari Singh 10 . Dr. M. Vetrivel 11 . Dr. Sudipta Sahana 12 . Mr. J Logeshwaran
TITLE OF INVENTION	ANALYZE OF WHY AMAZON SHUTDOWN ONLINE LEARNING IN INDIA
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/01/2023

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/01/2023

(21) Application No.202341000212 A

(43) Publication Date : 06/01/2023

(54) Title of the invention : ANALYZE OF WHY AMAZON SHUTDOWN ONLINE LEARNING IN INDIA

(51) International Classification :G06Q0050200000, G10L0025510000, G06Q0030060000, A61K0036740000, G06F0009500000

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

(87) 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 :
Amazon, the world's leading online shopping website, has announced that it will shut down its learning website, Amazon Academy. Less than two years after its launch, Amazon India announced that it would shut down its online learning platform for high school students in the country from August 2023. The Amazon Academy platform was launched in January last year. The company has also said that it will refund the entire fee to those who have registered for the new batch of online learning. Earlier, this online learning platform was launched due to the boom in online learning during the corona virus pandemic. This academy provides coaching for competitive exams, including JEE. It also allows entry into top engineering colleges across India. Based on the ratings, Amazon has decided to phase out Amazon Academy to take care of existing customers. Meanwhile, it said that customers could learn the entire course material online for one year, extended till October 2024. The company is working with the education group Sri Chaitanya to introduce complete syllabus courses for Joint Entrance Examination (JEE) and National Eligibility and Entrance Test (NEET) aspirants.

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

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Application Details

APPLICATION NUMBER	202341003284
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/01/2023
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TITLE OF INVENTION	ANALYSIS OF WHY COMMUNICATION SKILL PLAYS MAJOR ROLE IN IT SECTOR FOR SELECTING EMPLOYEES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	arinnapatent1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/01/2023

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/01/2023

(21) Application No.202341003284 A

(43) Publication Date : 20/01/2023

(54) Title of the invention : ANALYSIS OF WHY COMMUNICATION SKILL PLAYS MAJOR ROLE IN IT SECTOR FOR SELECTING EMPLOYEES

(51) International classification :A61P0035040000, G01N0033680000, H04L0041120000, H04L0043045000, G06Q0010060000

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

(87) 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 list of leading companies in the Indian industry is subject to change over time. It will be according to the economic environment, industry trends and development opportunities of each period. Today's market economy places more emphasis on skills acquired through training and experience than textbook knowledge. If you want to get good jobs with high salary in corporates, you need to upgrade your skills according to the time environment. IT Management structure in organizations is like a PYRAMID. In this system, the below shop posts are filled by people with 5 years of experience. There are employees with experience of more than 5 years at intermediate level. There is a pyramid-like structure where the number of people in this position is lower than shop level employees and the number of employees in higher responsibilities is lower. Organizations that are administratively structured like this are divided into teams based on functions. These teams write software for a client in the US or Europe, debugs it, find bugs, and do the work necessary to implement that software. These teams function like apartment houses where one housing complex is not connected to another and the doors are closed.

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

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(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202341005617
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/01/2023
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TITLE OF INVENTION	IMPACT AND ADOPTION OF SOCIAL NETWORK FOR TEAMWORK IN ORGANIZATION
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/02/2023

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/01/2023

(21) Application No.202341005617 A

(43) Publication Date : 10/02/2023

(54) Title of the invention : IMPACT AND ADOPTION OF SOCIAL NETWORK FOR TEAMWORK IN ORGANIZATION

(51) International classification :G06Q0010100000, G06Q0050000000, G06Q0010060000, H04L0051520000, A63B0069000000

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

(87) 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 :
Now teams are not just a buzzword but actually functional structures that are increasingly used to get work done efficiently. This is not accidental, because command structures greatly increase the speed and quality of work activities. I don't see a better way to do business in today's environment. The growing popularity of teams in private and public organizations is due to the need to adapt to many specific changes in the business environment. Today your company manufactures the best mousetraps in the world. But tomorrow your competitor may offer even better mousetraps and higher quality service to boot. What will your team do An old saying goes: One head is good, but two are better. When mousetrap manufacturers need to respond quickly to a competitive threat, they bring together all the skilled mousetrap engineers to get the job done quickly. Even with great skills, a team is more efficient than a few geniuses.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023

(21) Application No.202341007793 A
(43) Publication Date : 17/02/2023

(54) Title of the invention : SYSTEM FOR INTERFACING THE ARTIFICIAL INTELLIGENCE WITH DISTRIBUTED SMART GRIDS

(51) International classification	:G06N0003080000, G06N0003040000, H02H0007260000, G06F0009500000, G16H0050200000
(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 :
ABSTRACT SYSTEM FOR INTERFACING THE ARTIFICIAL INTELLIGENCE WITH DISTRIBUTED SMART GRIDS Lately, adequate protection strategies need to be developed when Smart grids (SGs) are connected to smart grids to prevent undesirable tripping. Conventional relay settings need to be adapted to changes in Distributed Generator (DG) penetrations or grid reconfigurations, which is a complicated task that can be solved efficiently using Artificial Intelligence (AI)-based protection. This paper compares and validates the difference between conventional protection (overcurrent and differential) strategies and a new strategy based on Artificial Neural Networks (ANNs), which have been shown as adequate protection, especially with reconfigurable smart grids. In addition, the limitations of the conventional protections are discussed. The AI protection is employed through the communication between all Protective Devices (PDs) in the grid, and a backup strategy that employs the communication among the PDs in the same line. This paper goes a step further to validate the protection strategies based on simulations using the MATLABTM platform and experimental results using a scaled grid. The AI-based protection method gave the best solution as it can be adapted for different grids with high accuracy and faster response than conventional protection, and without the need to change the protection settings. The scaled grid was designed for the smart grid to advocate the behavior of the protection strategies experimentally for both conventional and AI-based protections.

No. of Pages : 19 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/02/2023

(21) Application No.202341011076 A

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SMART SYSTEM FOR AIR QUALITY MONITORING AND DETECT FOREST FIRES USING THE INTERNET OF THINGS

(51) International classification :A62C 030200, G01N 150600, G01N 330000, G06Q 501000, G08B 171200
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Forests are large areas gathering trees and other plants. Wildfires are one of major hazards of global warming; they destroy forests and speed up the deforestation phenomenon. Other wildfires are also caused by human errors in wilderness environments. Dry vegetation fuels a wildfire's rapid ignition and spread. It is difficult to extinguish flames even with the best efforts of forest firefighters. Smoke and air pollution from wildfires may harm human health and ruin property. Forest fires are difficult to detect at time or to anticipate it, because they spread rapidly. Early-warning systems that they are more accurate are really needed. These systems could be implemented with IoT, machine learning, or deep learning. In this paper, we focus on this direction of research and we examine literature proposals utilizing IoT and DL to detect wildfires and their spread via a comprehensive evaluation and comparison of existing works.

No. of Pages : 9 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2023

(21) Application No.202341014287 A
(43) Publication Date : 17/03/2023

(54) Title of the invention : Smart grids for localising abnormal conditions detection system and method

(51) International classification :G01N 218800, G01N 219500, G06F 120200, G08B 171000, H02S 101200
(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 :
SMART GRIDS FOR LOCALISING ABNORMAL CONDITIONS DETECTION SYSTEM AND METHOD ABSTRACT In this invention, a fault detection and localization method for a Low Voltage (LV) distribution grid are presented. Two fault detection approaches were examined both suitable only for low impedance faults (up to 10 Ω of fault resistance). The first one was based on current measurements at the beginning of the feeder and the second one was based on the highest voltage drop across the feeder branches. The localization method was based solely on nodal rms voltage measurements across the grid. The localization method was divided in three steps: a) faulty branch identification, b) faulty sector localization and c) fault distance estimation. Two categories of faults were examined: single-phase to ground short-circuit (SC) faults and three-phase SC faults. Faults were divided in two major categories: a) faults in the beginning of a branch and b) faults in the middle or towards the end of a branch. Additionally, in order to study the effects of loads and micro generation units, four different hours in a day were chosen. For all of the above cases both low and high impedance faults were studied with fault resistance values ranging from Ω to 1 kΩ. Finally, a preliminary study with less available measurements was made and presented in this paper. The results have been validated by simulation means on a real semi-rural LV distribution network of Portugal.

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

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ORIGINAL

मूल/No : 133906

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	379148-001
तारीख / Date	:	12/02/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT BASED ECG MONITORING WEARABLE DEVICE** से संबंधित है, का पंजीकरण, श्रेणी **24-02** में 1.Dr. A V N Chandra Sekhar 2. Mrs.Divya Mishra 3.Mr.G.Nageswara Rao 4.Dr.Farhad F Mehta के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-02** in respect of the application of such design to **IOT BASED ECG MONITORING WEARABLE DEVICE** in the name of 1.Dr. A V N Chandra Sekhar 2. Mrs.Divya Mishra 3.Mr.G.Nageswara Rao 4.Dr.Farhad F Mehta.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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निर्गमन की तारीख/Date of Issue : 26/04/2023

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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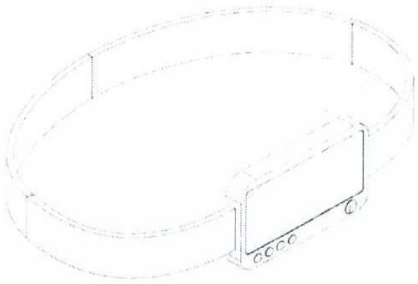
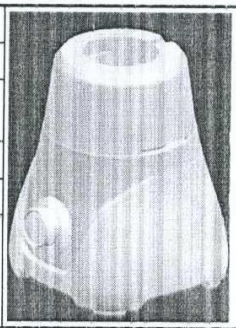
Design Number	379148-001
Class	24-02
1.Dr. A V N Chandra Sekhar Professor, Department of Information of Technology, Sasi Institute of Technology & Engineering, Tadepalligudem, West Godavari District, Andhra Pradesh, India. Pin Code:534101. 2. Mrs.Divya Mishra Assistant Professor, Department of CSE, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India. Pin Code:250001. 3. Mr.G.Nageswara Rao Associate Professor, Department of Information of Technology, Sasi Institute of Technology & Engineering, Tadepalligudem, West Godavari District, Andhra Pradesh, India. Pin Code:534101. 4. Dr.Farhad F Mehta Assistant Professor C, School of Pharmaceutical Sciences, University Teaching Department, R.G.P.V University, Bhopal, Madhya Pradesh, India. Pin Code:462033.	
Date of Registration	12/02/2023
Title	IOT Based ECG Monitoring Wearable Device
Priority NA	



Design Number	376755-001
Class	31-00
M/S Sohraab Plastic F-95, Sector-1, Bawana Industrial Area, Delhi-110039, India, Proprietor is Deepak Garg.	
Date of Registration	05/01/2023
Title	BASE OF MIXER
Priority NA	



Design Number	337164-004
Class	10-02
Zadafiya Sagarkumar Kalubhai A1-202,Indralok residency, Sudama Chowk, Mota varachha, Surat- 394101, Gujarat, India	
Date of Registration	02/01/2021
Title	WATCH
Priority NA	

Principal
Sasi Institute of Technology & Engineering (A)
Tadepalligudem, W.G.Dt., A.P.

ORIGINAL

मूल/No : 135010

सत्यमेव जयते

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पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	379888-001
तारीख / Date	:	22/02/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT BASED SMOKE AND HEAT DETECTOR** से संबंधित है, का पंजीकरण, श्रेणी **29-01** में 1.Dr.T.Dhiliphan Rajkumar 2. Dr.Manmath Narayan Sahoo 3.Dr J Thimmia Raja 4.Dr.E.Poongothai 5.Dr. P. Sivakumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **29-01** in respect of the application of such design to **IOT BASED SMOKE AND HEAT DETECTOR** in the name of 1.Dr.T.Dhiliphan Rajkumar 2. Dr.Manmath Narayan Sahoo 3.Dr J Thimmia Raja 4.Dr.E.Poongothai 5.Dr. P. Sivakumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Principal
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Tadepalligudem, W.G.Dt., A.P.

निर्गमन की तारीख/Date of Issue : 12/05/2023

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*The reciprocity date (if any) which has been allowed and the name of the country.Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.This Certificate is not for use in legal proceedings or for obtaining registration abroad.

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मूल/No : 135996

भारत सरकार
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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	380824-001
तारीख / Date	:	05/03/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **CURRENCY NOTES COUNTING MACHINE** से संबंधित है, का पंजीकरण, श्रेणी **19-02** में 1.Dr. P. Sivakumar 2. Dr. J Thimmia Raja 3.Dr. Parthiban Mohandas 4.Dr. A.S. Muthanantha Murugavel 5.Dr. M. Arun के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **19-02** in respect of the application of such design to **CURRENCY NOTES COUNTING MACHINE** in the name of 1.Dr. P. Sivakumar 2. Dr. J Thimmia Raja 3.Dr. Parthiban Mohandas 4.Dr. A.S. Muthanantha Murugavel 5.Dr. M. Arun.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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W.G.Dt., A.P.

निर्गमन की तारीख/Date of Issue : 17/05/2023

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

379792-001

Cbr Number:

202336

Cbr Date:

21/02/2023 15:32:38

Applicant Name:

1. Prashant Agrawal **2. Dr. K.G.Revathi** **3. Dr. P. Ezhilarasi**
4. Dr. P. Hemachandu

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 20/2023 and Journal Date is 19/05/2023

Back (/DesignApplicationStatus/)

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2023

(21) Application No.202341054392 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : Rechargeable LED Lighting System with Color Modulation, Multiple Illumination levels, and Ultrasound Pest Control

(51) International classification :G06F0003010000, F21Y0115100000, H04J0003060000, F21V0003020000, F21W0121000000
(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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4)Dr. M Priya
5)C Keerthi
6)K Shalini
7)D Narmitha
8)M Pallavi
9)Dr. K. Harshavardhana Reddy
10)Dr. Avagaddi Prasad
Name of Applicant : NA
Address of Applicant : NA
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9)Dr. K. Harshavardhana Reddy
Address of Applicant :Associate Professor, Department of ECE, East Point College of Engineering and Technology, Bengaluru, Karnataka. ---------- ----------
10)Dr. Avagaddi Prasad
Address of Applicant :Associate Professor & HOD, Department of EEE, Sasi Institute of Technology and Engineering, Tadepalligudem, Andhra Pradesh. ---------- ----------

(57) Abstract :
The lighting control system makes use of a wide variety of features and technologies in order to provide a wide range of illumination options. LED lighting, color temperature modification, illumination control, and pest control are just some of the features that are included in this system. Additionally, it interfaces with an Android app and can be controlled by hand gestures. This is a fantastic example of how technology can improve the experiences we have in our regular lives and meet a variety of requirements. The overall objective of the proposed lighting system is to provide a comprehensive solution to the requirements of contemporary lighting. This solution takes into account aspects such as energy efficiency, convenience, and additional functions such as pest control. This idea has the potential to be implemented in a variety of different ways in residential, commercial, and industrial settings, all of which place a premium on effective lighting and effective pest management. On the other hand, just like with any other system, successful implementation and input from users will play a crucial role in deciding the system's success and how well it may be used.

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

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ORIGINAL
क्रम सं/ Serial No. : 148990

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं./ Design No. : 398076-001

तारीख / Date : 19/10/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *FOOD AND BEVERAGE SERVING TROLLEY* से संबंधित है, का पंजीकरण, श्रेणी 12-05 में 1.Dr. P. Sivakumar 2. Dr. J. Thimmia Raja 3.Dr. K. Sathesh Kumar 4.Dr. Parthiban Mohandas 5.Dr. T. Dhilipan Rajkumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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जारी करने की तिथि :
Date of Issue : 23/11/2023

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/10/2022

(21) Application No.202241056882 A

(43) Publication Date : 14/10/2022

(54) Title of the invention : FLEXIBLE BIODEGRADABLE POLYMER FOR DELIVERING BIOACTIVE COMPONENTS

(51) International classification	:A61L0027580000, C08J0003075000, C08G0063120000, A61K0031000000, D01D0005340000
(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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3)Dr. P. Prameela

4)Mr. D. Suresh

5)Mr. K. Eswara Rao

6)Dr. Shivaveerakumar S

7)Mr. Yagnambhatla Rajendra

8)Ms. Kulsoom Koser

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Mr. Ashwin Kumar Thirukkovaluri Srinivasa
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2)Dr. Chetan D.M.
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6)Dr. Shivaveerakumar S
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8)Ms. Kulsoom Koser
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(57) Abstract :
A biodegradable polymer that is formed by the condensation of glycerol and a diacid. The polymer has the potential to be modified for use as a construct for tissue engineering. For instance, it may be seeded with cells, or chemicals may be attached to it in order to affect the metabolic processes and proliferation of cells, as well as to modify the pace of polymer breakdown and/or the mechanism of polymer degradation. A wide range of uses, some of which are medicinal and others of which are not, might make use of the polymer.

No. of Pages : 25 No. of Claims : 5

Principal
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/11/2022

(21) Application No.202241068181 A

(43) Publication Date : 02/12/2022

(54) Title of the invention : A Nano technology based method for growing metallic nano-clusters and compositions

(51) International classification :H05H0001240000, H05H0001480000, B01J0019080000, B82Y0040000000, A61N0001400000

(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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4)Mr. K. Eswara Rao

5)Dr. Srinivas Ganganagunta

6)Dr. A. Subash

7)Dr. P. Selvi

8)Dr. A. Dinesh Karthik

9)Dr. V. Sabari

10)Dr. S. Manimaran

Name of Applicant : NA

Address of Applicant : NA

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(57) Abstract :
An equipment for producing nano-clusters consists of a pair of electrodes as well as a field production module that produces a corona discharge across the electrodes. An electromagnetic field is produced as a result of the corona discharge. A voltage potential that exists between the electrodes is considered to be a medium voltage. A medium voltage module is included in the field generating module. This module creates a waveform of medium voltage, which is then sent to the electrodes to produce the corona discharge. The medium voltage waveform may be said to be the product of a wide range of frequencies that are generated by the broad frequency generation module that is part of the field generating module. Particles of a raw material are fed via an electromagnetic field using a raw material feeder module. At least some of the unprocessed material that is passed through an electromagnetic field can be broken down into its component free atoms thanks to the large range of frequencies that is included inside the electromagnetic field.

No. of Pages : 27 No. of Claims : 4

Principal
Sasi Institute of Technology & Engineering (A)
Tadepalligudem, W.G.Dt., A.P.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2022

(21) Application No.202241064970 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : Multi-Input Matrix Converter for Hybrid Solar and Wind System with Ex-OR Gate Logic

(51) International classification :F03D0009250000, F03D0009000000, B60L0008000000, H02S0010120000, H02M0005293000
(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 :
Due to the modernization of society, the usage of electrical energy increases gradually in the last few decades as a result demand for electricity increases drastically. To meet the load demand fossil fuels are the major energy sources, but due to their non-renewability in nature, they may exhaust in the next decades. So, to meet that electrical demand renewable solar and wind sources are used as alternative energy sources, due to their abundant availability in nature and alternatively in their availability nature. For the integration of solar and wind sources usually require some power electronic converters, the work involves the design and analysis of a multi-input matrix converter by sharing the matrix converter nine switches for connecting a 3-phase wind energy system and three individual solar PV panels. The matrix converter is a 3*3 switch converter. The top layer switches are for the 3-phase wind system and the bottom layer switches are for the three individual PV panels. To make a closed circuit, middle-layer switches are shared by both top-layer and bottom-layer switches by following Ex-OR gate logic. From that, if the top layer switches are in ON condition, then the bottom layer switches are in OFF condition by following the Ex-OR gate logic. As we know from the literature, both solar and wind energy sources are alternatives to each other.

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

Principal
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/02/2021

(21) Application No.202141005573 A
(43) Publication Date : 19/02/2021

(54) Title of the invention : CONTINUOUS AIR QUALITY MONITORING SYSTEM BASED ON IOT

(51) International classification	:H04L0029080000, G01N0033000000, G06Q0050260000, G01R0021000000, G01N0015060000
(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 CONTINUOUS AIR QUALITY MONITORING SYSTEM BASED ON IOT • As the total population is turning out to be progressively metropolitan, the urban communities are feeling the squeeze to remain decent. As of late, the air nature of the urban communities has become one of the significant reasons for worry around the globe. With the wild industrialization and remarkable development in auto industry, the air gets exceptionally polluted by unsafe poisons and gases delivered from their outflows. Subsequently, it is important to continually screen the air quality of a city to make it shrewd and reasonably livable. Utilizing Internet of things (IoT) we can monitor at the same time assemble contaminations level in profoundly express zones and send the information to incorporated controlling and checking unit where reasonable advances can be taken to caution individuals in order to diminish the degree of toxins noticeable all around significantly. Figure 1

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

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2020104377

The Commissioner of Patents has granted the above patent on 17 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Intelligent Safe Home System for the Elderly People

Name of inventor(s):

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Term of Patent:

Eight years from 29 December 2020

Dated this 17th day of March 2021

Commissioner of Patents

Principal
Sasi Institute of Technology & Engineering (A)
Tadepalligudem, W.G.Dt., A.P.

PATENT SEAL

This data, for application number 2020104377, is current as of 2021-04-14 21:00 AEST

20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.202141015525 A

(43) Publication Date : 16/04/2021

(54) Title of the invention : SMART AGRICULTURE USING IOT

(51) International classification	:G06Q0050020000, H04L0029080000, G01D0021020000, A01G0025160000, H04W0084180000
(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 Smart agriculture using IoT The present invention is related to the field of electronics and Internet of Things. This invention is a method of agriculture using smart methods. Crop monitoring is done where sensors are utilized to gather data in the agricultural field. The various sensors utilized are temperature & humidity sensor and soil moisture sensor. The data gathered by the sensors is shipped off the arduino microcontroller ATmega328. The gathered data can be shown in a LCD screen for appropriate action to be taken. The presentation of IoT alongside the sensor network in agriculture adds value to the conventional method of cultivating.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/04/2021

(21) Application No.202141017314 A
(43) Publication Date : 23/04/2021

(54) Title of the invention : AN NOVEL METHOD TO INTEGRATION OF OLAP WITH CORRELATION OF MULTIDIMENSIONAL END OF LINE DATA MINING

(51) International classification	:G06F0016280000, G06Q0030020000, G06F0016245800, G06Q0010060000, B42D0001000000
(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 In this invention a process development is an interaction instrument enhancement system that incorporates: (a) an data mining engine that breaks down finish of-line yield information to distinguish at least one cycle devices related with low yield; and (b) because of yield from the examination, investigates measure device information from the at least one cycle devices to recognize at least one cycle device boundaries related with the low yield. A language composition that coordinates multidimensional extensions (e.g., MDX) and data mining extensions (e.g., DMX) for performing data mining procedure on information living in OLAP cubes. The blueprint gives that the cannot exclusively be a social inquiry; rather a multidimensional question framed utilizing MDX, for instance. The tasks of model creation, preparing and expectation are depicted. A distributed OLAP-based method and system for generating association rules. An architecture is provided for processing transaction data to generate summary information, customer profiles, and association rules. The distributed system includes at least two layers of data warehouse/OLAP stations: local data-warehouse OLAP stations (LDOSs) and a global data-warehouse OLAP station (GDOS). The LDOSs perform local data mining and summarization, and the GDOS merges, mines, and summarizes the input data received from LDOSs. The summarized data is then utilized by the GDOS to generate association rules that can be provided to the LDOSs for business planning.

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

Principal
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/07/2021

(21) Application No.202141031063 A
(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ANALYSING BIOLOGICAL EFFECTS OF MOLECULES USING MONTE CARLO METHOD

(51) International classification	:G06N0020000000, C12Q0001682700, A61K0031120000, A61K0031166000, G16B0020000000
(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 :
A SYSTEM AND METHOD FOR ANALYSING BIOLOGICAL EFFECTS OF MOLECULES USING MONTE CARLO METHOD [029] The present invention discloses a system and method for analysing biological effects of molecules using Monte Carlo method. The system, includes, but not limited to, a processing unit for determining whether a plurality of interacting molecules has a biological effect selected from a group consisting of an antibacterial effect, an antiviral effect and an anticancer effect; a plurality of machine learning (ML) and Artificial Intelligence (AI) modules for data modelling of identity of a sample chemical composition of the interacting molecules in conjunction with a Monte Carlo based Processing module. Accompanied Drawing [FIG. 1]

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

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044133423
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

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

पेटेंट सं. / Patent No.	:	375975
आवेदन सं. / Application No.	:	201941033895
फाइल करने की तारीख / Date of Filing	:	22/08/2019
पेटेंटी / Patentee	:	1.Mr. BURRI AJAYARAM 2.Mrs. BURRI MADHURI 3.Mr. RAVIPATI BAPAIAH CHOUDARY

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित "BULLOCK CART AUTOMATON" नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 22nd day of August 2019 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 "BULLOCK CART AUTOMATON" as disclosed in the above mentioned application for the term of 20 years from the 22nd day of August 2019 in accordance with the provisions of the Patents Act,1970.

Principal
Sasi Institute of Technology & Engineering (A)

पेटेंट कार्यालय THE PATENT OFFICE GOVT.OF INDIA भारत सरकार

अनुदान की तारीख : 31/08/2021
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, **22nd day of August 2021** को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 22nd day of August 2021 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/09/2021

(21) Application No.202141040185 A
(43) Publication Date : 17/09/2021

(54) Title of the invention : DROOP CHARACTERISTICS BASED POWER SUPPLY FOR ELECTRIC TRACTION SYSTEM

(51) International classification	:H02J0003380000, B60L0015000000, B60L0053240000, H02J0003360000, H02M0005220000
(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 :
Abstract The single-phase traction system needs a performance enhancement due to the issues that is involved with the single-phase transformer-based control. Serious power quality issues arise during interfacing of the traction system such as imbalance in current and voltage at the single-phase transformer. The present innovation proposes a solution to the power quality issues due to intermittent switching (disengage and engage) of the drivetrain load. An alternate methodology to supply power to the AC drivetrain system is detailed. On AC traction side MMC (multi module converter) based converter is connected to self-synchronizing inverters. The drivetrain side inverter is developed based on the droop characteristics and it is carried out keeping in mind the perimeters of Indian railway. The AC voltage and current imbalance that occurs in the traction system while sudden connection and disconnection of the traction in the single phase supply with transformer interfacing is a serious power quality issue. The present innovation relates to develop an alternate topology for continuous and steady state supply of power to the AC traction system. The MMC based converter system with the DC link is connected to the self-synchronizing inverters at the AC traction side. The droop characteristic based control of the traction side inverter is developed for the specification of Indian scenario system.

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

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/10/2021

(21) Application No.202141044534 A

(43) Publication Date : 08/10/2021

(54) Title of the invention : Design of Bioinspired forest chassis robots on a slope

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(51) International classification :A01G 23/00
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :
To make bioinspired forested vehicles more stable on slopes, a BaryCenter adjustable mechanism (BAM) has been developed, and a counterweight control technique is suggested that would allow this BAM to move appropriately to meet its design goal. In the course of BAM"s kinematic analysis, the connection between the counterweight"s horizontal and vertical translation, rotation, and displacement is determined. Variation curves also indicate that the BabyCenter may move 100 millimeters horizontally, rotate from 0 to 360 degrees, and drop approximately 180 millimeters vertically. Complete chassis kinematics simulation using Adams shows that the control technique may successfully change the barycenter position.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/10/2021

(21) Application No.202141047799 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : ARTIFICIAL GORILLA TROOPS OPTIMIZATION BASED MULTI-OBJECTIVE SECURE ROUTING PROTOCOL FOR FOG BASED WIRELESS SENSOR NETWORKS

(51) International classification :H04W0084180000, H04W0040100000, G06N0010000000, H04W0004700000, H04L0029060000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Wireless Sensor Networks (WSN's) become an integration part of the Internet of Things (IoT) and finds their applicability in several domains. The fog-based WSN generally involves advanced nodes, normal nodes, and some FNs. The existence of advanced nodes results in heterogeneous network that results in maximum energy effectiveness of the fog based WSN.Though the fog based WSN offers several benefits, there is a need to develop an effective trust based secure routing protocol for data transmission among Cluster Heads (CHs) and FNs. This paper presents a Artificial Gorilla Troops Optimization based multi-objective secure routing (AGTO-MOSR) protocol for fog based WSN. The main intention of the AGTO-MOSR technique is to derive an optimal selection of routes between CHs and FNs in the network.The AGTO-MOSR technique has incorporated the concepts of quantum computing and Artificial Gorilla Troops (AGT) optimization algorithm is derived by using seven objectives, such as distance, intercluster distance, energy, delay,link lifetime, and trust. The presented routing technique derives a fitness function including trust factor to ensure security. Several tests were conducted to validate the AGTO-MOSR technique's performance, and the results were analyzed using several metrics. The experimental analysis ensured that the AGTO-MOSR technique is superior to other methods interms of different measures.

No. of Pages : 8 No. of Claims : 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/10/2021

(21) Application No.202141048062 A
(43) Publication Date : 05/11/2021

(54) Title of the invention : DEEP LEARNING WITH ELEPHANT HERD OPTIMIZATION ALGORITHM BASED CYBERBULLYING DETECTION FRAMEWORK FOR ONLINE SOCIAL NETWORKS

(51) International classification	:H04L0029080000, H04L0012580000, H04W0004020000, G06F0021550000, G06N0003040000
(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 :
DEEP LEARNING WITH ELEPHANT HERD OPTIMIZATION ALGORITHM BASED CYBERBULLYING DETECTION FRAMEWORK FOR ONLINE SOCIAL NETWORKS Cyber bullying is a crime in which a criminal harasses and hates another person through the internet. Cyber bullying entails the use of online communication channels to bully other users by sending intimidating, threatening or abusive messages. This can have psychological and sometimes life-threatening consequences for the victims. CB's consequences are becoming increasingly frightening, hurting victims physically and psychologically. This allows for the use of automated detection approaches, however, research into such tools is limited because of insufficient datasets or the elimination of broad features during CB identification. Many methods for detecting cyberbullying have been proposed, however, they have primarily relied on textual and user attributes. By providing additional characteristics, these methods attempt to enhance detection. Increasing the number of features, however, might make the feature extraction and selection stages more difficult. Moreover, some of the datas can be easily fabricated. In this research work Optimal deep learning with Elephant herd optimization algorithm based cyber bullying detection is proposed. The proposed method results is compared with existing bench mark datasets, which shows excellent performance is detecting cyber bullying attacks.

No. of Pages : 7 No. of Claims : 1

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

(21) Application No.202141047510 A
(43) Publication Date : 05/11/2021

(54) Title of the invention : HADOOP MAPREDUCE BASED BIG DATA CLASSIFICATION MODEL FOR IDENTIFYING FRAUDULENT TRANSACTION IN BANKING SECTOR

(51) International classification :G06K0009620000, G06Q0020400000, G06Q0040020000, G06N0005020000, G06N0003120000
(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, big data classification becomes a hot research topic in various domains such as healthcare, e-commerce, finance, etc. Mostly the banking section is under a huge threat. Everyday lakhs of fraudulent transactions attempt are happening among millions of transactions. So, there is a need of novel solutions, to protect customers. So in this case we are working on identify best feature , which leads to classify the transactions as fraudulent or Non-Fraudulent. The inclusion of feature selection process helps to improvise the big data classification process and can be done by the use of metaheuristic optimization algorithms. This study focuses on the design of big data classification model using Modified Crow Search Optimization (MCSO) based feature selection with optimal deep belief network (DBN) model. The proposed model is executed on the Hadoop MapReduce environment to manage the big data. Initially, the MCSO algorithm is applied to pick out a useful subset of features. In addition, the Bacterial Foraging Optimization (BFO) based deep belief network (DBN) model is derived as a classifier to allocate appropriate class labels. The design of BFO algorithm to tune the hyperparameters of the DBN model assist to boost the classification performance. For examining the superiority of the presented technique, a series of simulations were performed and the results are inspected under various dimensions. The resultant values highlighted the supremacy of the presented technique over the recent techniques.

No. of Pages : 7 No. of Claims : 1

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

(21) Application No.202041029576 A
(43) Publication Date : 31/07/2020

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

(51) International classification	:B62D 15/02
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2020

(21) Application No.202041039998 A
(43) Publication Date : 25/09/2020

(54) Title of the invention : MACHINE LEARNING BASED SMART TRANSPORTATION SYSTEM WITH TRAFFIC ESTIMATION FOR BIG DATA ANALYTICS

(51) International classification	:G08G0001010000, G06N0020000000, G08G0001096700, G08G0001090000, G08G0001160000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
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(57) Abstract :
Development of a tool that can predict accurate flow of traffic information is essential in the current era. Traffic environment indicates everything affecting smooth flow of traffic causing traffic jam on road that includes traffic signals, maintenance of roads, rallies and unexpected accidents. If prior information is provided to rider then probability of road blockage is reduced as he rider is able to take informed decision. Such system can be utilized in autonomous vehicles of future generation. In this invention, concept of big data is utilized for generating traffic data exponentially and machine learning is used along with soft computing and deep learning algorithms for analyzing big data with huge data set of transportation system with reduced complexity. Recognition of traffic signs is done based on image processing algorithms which can also be utilized for training autonomous vehicles. It is possible to forecast the flow of traffic based on this invention as traffic prediction models are involved in order to handle applications in real time.

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

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

(21) Application No.202041044180 A
(43) Publication Date : 16/10/2020

(54) Title of the invention : PRANA MASK 2020

(51) International classification	:A61K 8/97
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
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(57) Abstract :
The Prana Mask 2020 is a four layered mask. The central triangular portion of the mask covers the nose and the mouth region of the wearer. A doom portion on left side of the triangular portion is used to preserve fresh air for breathing and a doom portion on right side of it is used to store exhaled air during breathing. The triangular portion has two thin film unidirectional valves on each side walls which prevents the mixing of exhaled air with the inhaling air during breathing and hence provides normal breathing environment to the wearer eliminating respiratory problems. The audio system in the mask enhances the wearer™s voice and it consists of mic, audio amplifier, speaker and battery which are placed in between the various layers in the mask. The solar strips placed at the top left side in the outer layer of the mask provide power requirements for the audio system. The audio system wiring is done by using thin flexible enamel coated copper wire. The mask can be easily cleaned using hot air or sun light exposure for half an hour. The mask is suitable for clinical purpose and common people for long term usage.

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

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