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(21) Application No.202241065351 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : NOVEL PROCESS FOR THE PREPARATION OF PYRAZOLO[3,4-B] PYRIDINE AND TRIAZOLE DERIVATIVES

(51) International classification :C07D0471040000, A61K0031437000, A61P0035000000, C07D0519000000, A61P0007020000
(86) International Application No :PCT//
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(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention relates to a novel process for the preparation of pyrazolo[3,4-b] pyridine derivatives represented by the following structural formula (I').

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

# पेटेंट कार्यालय
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(54) Title of the invention : A NOVEL PROCESS FOR THE PREPARATION OF PYRAZOLE-4-SULFONAMIDE DERIVATIVES

(51) International classification :H01L0027120000, B01J0021040000, G01N0033680000, H01L0021020000, A61P0003060000
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(57) Abstract :
The present invention relates to relates to a simple, efficient, commercially viable, industrially advantageous and cost-effective process for the preparation of novel pyrazole-4-sulfonamide derivatives of formula (1) or formula (1') and its pharmaceutically acceptable salts with high purity and good yield.

No. of Pages : 26 No. of Claims : 5

# पेटेंट कार्यालय
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(54) Title of the invention : A NOVEL PYRAZOLE-4-SULFONAMIDE DERIVATIVES

(51) International classification :H01L0027120000, H01L0021840000, A61K0008370000, B33Y0080000000, A61K0008730000
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to novel pyrazole-4-sulfonamide derivatives of formula (1) or formula (1') and its pharmaceutically acceptable salts. It further relates to novel pyrazole-4-sulfonamide derivatives of formula (1) or formula (1') and its pharmaceutically acceptable salts so obtained is used for the treatment of anticancer and antibiotics.

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

(21) Application No.202241071800 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : CONSTRUCTION ROOFS WITH THE AID OF SHEET AND CONTROL THEORY

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| (51) International classification | :B62D0025060000, H02S0020230000, F24S0020670000, E04D0003350000, E04D0003360000 |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
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| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

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(57) Abstract :
ABSTRACT The present invention is roof structure of a fire-proof building where a fire resistance roof material is placed on a roof structure beam and water proof is subjected to the roof material. The roof material is the roof panel where a fire resistance sheathing roof board, a waterproof sheet, and a roof finishing material are mounted on a roof frame. The roof panel is fixed from under side to roof panel fixtures mounted on the roof structure beam. The roof frame has a pair of parallel common rafter receiving beam and several pieces of common rafters in the roof panel. The sheathing roof board and the roof finishing material are overlapped to have a shorted width dimension than the roof frame. The waterproof sheet is sandwiched between the sheathing roof board and the roof finishing material to have a longer width dimension than the roof frame.

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(19) INDIA
(22) Date of filing of Application :24/12/2021
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(43) Publication Date : 07/01/2022

(54) Title of the invention : METAKAOLIN USING AS A PARTIAL REPLACEMENT OF CEMENT IN CONCRETE – AN EXPERIMENTAL RESEARCH

(51) International classification :C04B0028040000, C04B0028000000, C04B0014100000, G01N0033380000, C04B0111720000
(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 :
Concrete with high performance and environmental friendly is the current demand and to achieve this many researchers have attempted to use fly ash and silica fumes to improve the concrete properties. In this work, a study has been attempted by using Cashew Nut Shell Liquid (CSNL) and metakaolin additives together on the compression properties and durability properties. Different proportions of the combinations using CSNL and metakaolin have been analysed. The results show that the addition of CSNL additives along with metakaolin improves the concrete properties. With the information available about the metakaolin and CSNL from the literature surveying and from the past researches done on this topic, the mix proportion was selected so as to have a balanced workability and strength. The mixing was done manually. Curing was performed to immerse in the water and testing was done to determine the mechanical strength. The response of metakaolin and CSNL concrete was determined for acid attack and carbonation effect against variable binder ratios.

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

(21) Application No.202241071793 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : AUTOMATED CONSTRUCTION OF BUILDING CONTROLLED BY ORAL INSTRUCTION

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| (51) International classification | :G06Q0010060000, G06Q0050080000, G06F0030130000, G06Q0010080000, G06F0009500000 |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
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(57) Abstract :
The present invention is an automated construction of building controlled by oral instructions method for automatically optimizing construction schedule resources based on building information models, which includes the following steps: I) 10 prepare building information models with building element categories and main resource categories, and work enter or import the required work package templates in the package template database, and use the work package templates to generate work packages. Each work package and the building components are many-to-many associations; 2) data integration is based on the types of building components and 15 materials 3) based on the information model formed by data integration, using the constraints and objective function of RCPSP, the schedule resource optimization model is automatically generated and solved automatically to complete the optimization of the construction schedule resource. The entire process is controlled by oral instruction.

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

## Patent Search

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| Invention Title | STATISTICAL MACHINE LEARNING MODEL FOR GENERATION AND INTEGRATION OF RENEWABLE ENERGY USING DISTRIBUTION NETWORKS |
| Publication Number | 48/2022 |
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| Application Number | 202231067152 |
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| Priority Number | |
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| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06Q0010060000, H02J0003000000, G06Q0010040000, G06N0007000000, G06F0111080000 |

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| Vinay Kumar Domakonda | Associate Professor, Department of Mechanical Engineering, Vignan's Foundation for Science, Technology and Research, Vadlamudi, Guntur, Andhra Pradesh, India-522213. | India | India |
| Dr. Nallusamy R | Professor and Dean, Department of Computer Science and Engineering, Muthayammal College of Engineering, Rasipuram, Tiruchengode, Namakkal, India-637202. | India | India |
| R. Sathish Kumar | Assistant professor, Department of Computer science and engineering, Manakula Vinayagar institute of technology, pondicherry, India-605 107. | India | India |
| Dr. Kunalkumar Prakashbhai Bhatt | Assistant Professor, Department of Electrical engineering, Parul Institute of Engineering and Technology, Post Limda, Waghodia, Gujarat, Baroda, India- 391760. | India | India |
| Dr. Ashwini S | Assistant professor, Department of Computer science and engineering, Saveetha school of engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha Nagar, Chennai, Tamil Nadu, India-602105. | India | India |
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Applicant

| Name | Address | Country | Nationality |
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| Vinay Kumar Domakonda | Associate Professor, Department of Mechanical Engineering, Vignan's Foundation for Science, Technology and Research, Vadlamudi, Guntur, Andhra Pradesh, India-522213. | India | India |
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| Dr. Ashwini S | Assistant professor, Department of Computer science and engineering, Saveetha school of engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha Nagar, Chennai, Tamil Nadu, India-602105. | India | India |
| Deevi Radha Rani | Associate Professor, Department of CSE, Vignan's Foundation for Science, Technology and Research (Deemed to be University), Tenali, Guntur, Andhra Pradesh, India-522201. | India | India |

**Abstract:**

New energy power systems with high-permeability photovoltaic and wind power are high- dimensional dynamic large-scale systems with nonlinear, uncertain and complex operating characteristics. The uncertainty of new energies creates challenges in detailed analyses of operating conditions and the efficient planning of distribution networks. Probabilistic power flows (PPFs) are effective tools for uncertainty analyses of distribution networks, and they can be applied in stochastic programming, risk assessment and other fields. We propose different forms of PPFs, which are origin moments rather than means and variances, based on point estimation. We design a stochastic programming model suitable for new energy planning in practice, and the PPF results can be used to improve energy stochastic programming methods by considering the principle of maximum entropy (POME) and quadratic fourth-order moment (QFM) estimation. The origin moments of PPFs are transformed into central moments as inputs of QFM based on probability theory. QFM can efficiently estimate the constraint probability levels of stochastic optimal planning models, and the proposed method is verified based on an IEEE 33-node distribution network.

Complete Specification

Description:Robust power system planning commonly combines the worst-case scenario approach and interval optimization theory presented an adaptive robust optimization theory in which correlated uncertainty and the worst-case operating cost are fully considered. Considering the uncertainty of DG and the corresponding demand, Chatthaworn and Chaitusaney presented a robust model for transmission network expansion planning in which all possible scenarios are analyzed and presented a sequential quadratic interval programming model for reactive power optimization based on the interval uncertainty of DG . To efficiently solve reactive power planning problems, the applied planning model often approximated as a linear mode and presented a scenario method for reactive power optimization, and the uncertainty of DG was obtained from distribution functions. Compared with deterministic programming, robust programming can ensure the security of power grid systems under extreme conditions. However, the fluctuations in DG uncertainty considerably influence robust programming. When the fluctuations in uncertain factors are small, the superiority of robust programming may not be apparent. When the fluctuations in uncertain factors exceed the corresponding threshold values, robust programming may not yield sufficient planning results. In addition, for safety, robust programming may be too extreme in many scenarios.

With respect to stochastic programming, probability distributions are often used in uncertain programming modeling and presented a wind farm planning method based on a linearized bilevel model that was solved using a linear solver. The mixed-integer linear stochastic model has become a popular stochastic planning model for distribution networks, and various scenarios should be considered to capture DG uncertainty and presented a two-stage stochastic mixed-integer programming model that considers DG uncertainty. Haghighat and Zeng presented a two-stage stochastic programming model in which correlations among uncertainties are reflected by a Gaussian copula. In regard to new energy power systems, the operation scenario of power systems is often determined according to the DG outputs. Suggested that the

View Application Status

## Patent Search

| | |
|---|---|
| Invention Title | A SYSTEM TO DEVELOP AN AI SAFETY MODEL TO MITIGATE THE ROAD ACCIDENTS |
| Publication Number | 13/2022 |
| Publication Date | 01/04/2022 |
| Publication Type | INA |
| Application Number | 202241017074 |
| Application Filing Date | 25/03/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | ELECTRONICS |
| Classification (IPC) | G08G0001160000, B60W0050140000, B60W0030120000, G06K0009000000, B60W0030090000 |

Inventor

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| Dr Raja Kumar Kontham | Assistant Professor Department of Computer Science and Systems Engineering (CSSE) Andhra University College of Engineering (A) Andhra University, Visakhapatnam - 530003 Andhra Pradesh, India | India | India |

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| Dr Nagarjuna Karyemsetty | Associate Professor Department of CSE Koneru Lakshamaiah Education Foundation Vaddeswaram, Guntur Andhra Pradesh, India | India | India |
| Dr Thalakola Syamsundararao | Associate Professor Department of CSE Kallam Haranadhareddy Institute of Technology(A) Chowdavaram, Guntur, Andhra Pradesh,India | India | India |
| Dr Raja Kumar Kontham | Assistant Professor Department of Computer Science and Systems Engineering (CSSE) Andhra University College of Engineering (A) Andhra University, Visakhapatnam - 530003 Andhra Pradesh, India | India | India |

**Abstract:**

ABSTRACT “A SYSTEM TO DEVELOP AN AI SAFETY MODEL TO MITIGATE THE ROAD ACCIDENTS” A system (100) to develop an AI safety model to mitigate the Road accidents comprising of; elements of passive safety precautions characterized in that; ADAS (102) (advanced driver assistance systems)- uses sensors in the vehicle and helps drivers in avoiding on-road collisions characterized by; Driver assistance (101) having a Side and Rear-View Assistant Systems, by using cameras or radar sensors to monitor surrounding areas of a vehicle and warn the driver of vehicles in the side or rear blind zones; Driver warning (103) having a Lane Departure Warning Systems to use cameras to monitor vehicle position within the lane, warning the driver if the vehicle is in risk of straying across lane markings. (Reference Fig attached)

Complete Specification

Claims:We Claim,

1. A system (100) to develop an AI safety model to mitigate the Road accidents comprising of; elements of passive safety precautions characterized in that;

ADAS (102) (Advanced Driver Assistance Systems)- uses sensors in the vehicle and helps drivers in avoiding on-road collisions characterized of;

Driver assistance (101) having a Side and Rear-View Assistant Systems, by using cameras or radar sensors to monitor surrounding areas of a vehicle and warn the driver of vehicles in the side or rear blind zones;

Driver warning (103) having a Lane Departure Warning Systems to use cameras to monitor vehicle position within the lane, warning the driver if the vehicle is at risk of straying across lane markings;

Primary Safety (104) – is ADAS (102) crash avoidance system and action on the vehicle(105), by sending an emergency braking message to the following vehicles or a vehicle can send Global Positioning System (GPS) data to the other vehicles to warn them of approaching vehicles beyond their range of view, and the collision avoidance systems take action only if the driver fails to respond to the warning indicated;

Interaction between primary and secondary safety (106) – unavoidable accident, the passive safety system refers to the safety technology embedded in a vehicle, which is specifically designed to reduce injuries in the event of a crash at severity level (107) e.g., airbags and advanced seat belt;

Secondary safety (108) and post-action (109) triggered by an accident to protect passengers i.e., activation of the air bag and advanced seatbelts;

2. A system (100) to develop an AI safety model to mitigate Road accidents as claimed in claim 1, wherein visual and audio warnings are presented to the driver, the failure in effectively controlling the speed with these warnings causes the activation of ADAS speed adjustor and braking systems

View Application Status

ORIGINAL

No. 110100

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

# CERTIFICATE OF REGISTRATION OF DESIGN

| | |
|---|---|
| **Design No.** | **356582-001** |
| **Date** | **12/01/2022 17:47:33** |
| **Reciprocity Date*** | |
| **Country** | |

**Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to A PEN FOR CONVERTING TEXT INTO SPEECH in the name of 1.DR. DEEPAK KUMAR NAYAK, PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, BUDGE BUDGE INSTITUTE OF TECHNOLOGY, NISCHINTAPUR, BUDGE BUDGE, KOLKATA, WEST BENGAL-700137 INDIA 2. DR. BONTHU KOTAIAH, ASSISTANT PROFESSOR, DEPARTMENT OF CS AND IT, MAULANA AZAD NATIONAL URDU (A CENTRAL) UNIVERSITY, GACHIBOWLI, HYDERABAD, TELANGANA - 500032 3. DR. RAVI KUMAR, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, JAYPEE UNIVERSITY OF ENGINEERING AND TECHNOLOGY, GUNA - 473226 4. DR BADUGU SAMATHA, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH, VADLAMUDI, GUNTUR, ANDHRA PRADESH, INDIA , ET AL.**

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

**Controller General of Patents, Designs and Trade Marks**



***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 underthe 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 .**

**SAURABH KUMAR JAIN,**
**SENANIP, F-440, DELTA-1, GREATER NOIDA, UP**
**201310 INDIA**

**Date of Issue 10/03/2022 13:20:20**

*(SPECIMEN OF REPRESENTATION SHEETS)*



**Name of Applicant:**
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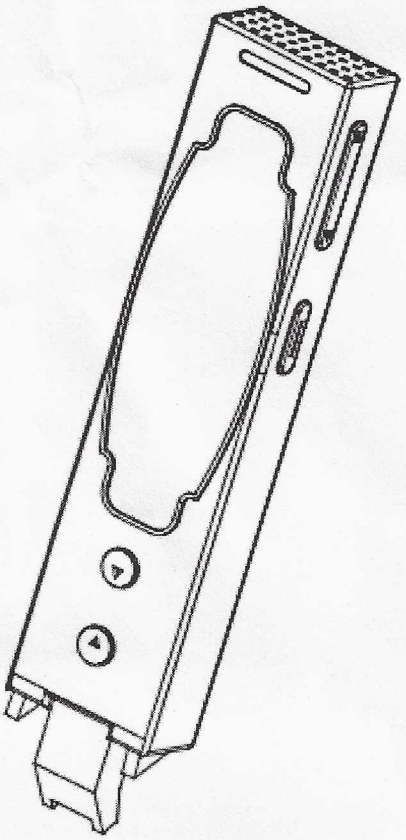
2. Dr. Bonthu Kotaiah
3 Dr. Ravi Kumar
4. Dr Badugu Samatha
5. Dr. A. Rengarajan
6. Dr.Siva Shankar S



**PERSPECTIVE VIEW**

The novelty resides in the shape and configuration of the "**A PEN FOR CONVERTING TEXT INTO SPEECH**" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.

No claim is made by virtue of this registration to any right to the exclusive use of the words, letters, numbers, or trade marks appearing in the representation.

Saurabh

Dated 12th January, 2022

Signature of the Agent

Saurabh Kumar Jain, (IN/PA-3637)

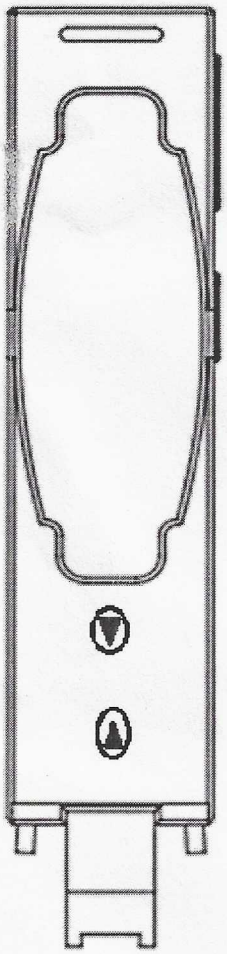
356582-001

12 JAN 2022

*(SPECIMEN OF REPRESENTATION SHEETS)*

**Name of Applicant:**
1. Dr. Deepak Kumar Nayak, 2. Dr. Bonthu Kotaiah
3 Dr. Ravi Kumar 4. Dr Badugu Samatha
5. Dr. A. Rengarajan 6. Dr.Siva Shankar S





**FRONT VIEW**

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Dated 12th January, 2022

Signature of the Agent

Saurabh Kumar Jain, (IN/PA-3637)

*(SPECIMEN OF REPRESENTATION SHEETS)*



**Name of Applicant:**

1. Dr. Deepak Kumar Nayak,
2. Dr. Bonthu Kotaiah
3 Dr. Ravi Kumar
4. Dr Badugu Samatha
5. Dr. A. Rengarajan
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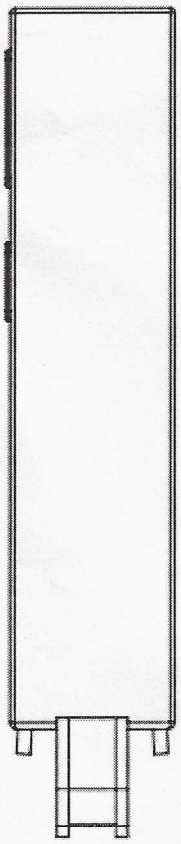

**REAR VIEW**

The novelty resides in the shape and configuration of the "**A PEN FOR CONVERTING TEXT INTO SPEECH**" as illustrated.

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Saurabh

Dated 12th January, 2022

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356582-001

12 JAN 2022

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**Name of Applicant:**

1. Dr. Deepak Kumar Nayak,
2. Dr. Bonthu Kotaiah
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4. Dr Badugu Samatha
5. Dr. A. Rengarajan
6. Dr.Siva Shankar S



**LEFT SIDE VIEW**

The novelty resides in the shape and configuration of the "**A PEN FOR CONVERTING TEXT INTO SPEECH**" as illustrated.

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Dated 12th January, 2022

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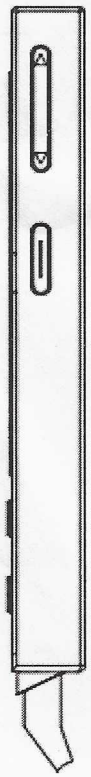
2. Dr. Bonthu Kotaiah
3 Dr. Ravi Kumar
4. Dr Badugu Samatha
5. Dr. A. Rengarajan
6. Dr.Siva Shankar S



**RIGHT SIDE VIEW**

The novelty resides in the shape and configuration of the "**A PEN FOR CONVERTING TEXT INTO SPEECH**" as illustrated.

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Dated 12th January, 2022

Signature of the Agent

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356582 - 001

12 JAN 2022

*(SPECIMEN OF REPRESENTATION SHEETS)*



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3 Dr. Ravi Kumar
4. Dr Badugu Samatha
5. Dr. A. Rengarajan
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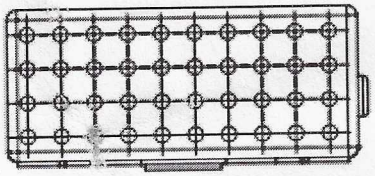
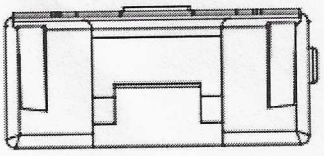


**TOP VIEW**



**BOTTOM VIEW**

The novelty resides in the shape and configuration of the "**A PEN FOR CONVERTING TEXT INTO SPEECH**" as illustrated.

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Dated 12th January, 2022

Signature of the Agent

Saurabh Kumar Jain, (IN/PA-3637)

356582 - 001

12 JAN 2022

Application Details

## Design Application Details

**Design Number:** 363973-001

**Filing Date:**
10/05/2022 19:53:51

**Article Name:**
SOLAR POWERED VENDOR KART WITH VEHICLE CHARGING FEATURE

**Class:**
12-02-HANDCARTS, WHEELBARROWS

**Journal Number:**
49/2023

**Journal Date:**
08/12/2023 00:00:00

## Applicant Detail

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## Priority Details

Record Not Found !

ORIGINAL

मूल/No : 119202

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. | : | 346922-001 |
| तारीख / Date | : | 28/07/2021 |
| पारस्परिकता तारीख / Reciprocity Date* | : | |
| देश / Country | : | |

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUGER MACHINE** से संबंधित है, का पंजीकरण, श्रेणी **15-09** में 1.T Ch Anil Kumar 2. N Bharath Kumar 3.Dr. Geetha Reddy Evuri 4.Dr. A. R. Vijay Babu 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 **15-09** in respect of the application of such design to **AUGER MACHINE** in the name of 1.T Ch Anil Kumar 2. N Bharath Kumar 3.Dr. Geetha Reddy Evuri 4.Dr. A. R. Vijay Babu.

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.



निर्गमन की तारीख/Date of Issue : 01/12/2022

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्त्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

*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.

## Patent Search

| | |
|---|---|
| Invention Title | IoT gateway, a method for bridging various wireless sensor networks over the internet |
| Publication Number | 26/2022 |
| Publication Date | 01/07/2022 |
| Publication Type | INA |
| Application Number | 202231030959 |
| Application Filing Date | 30/05/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04L0029060000, H04L0012660000, H04L0012280000, H04L0029080000, H04W0084180000 |

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| Mr Navin Dhinnesh Adc | Assistant Professor (Sr Gr), Computer Applications, Mepco Schlenk Engineering College, Sivakasi | India | India |
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| Mr.J Logeshwaran | Research Scholar, Department of Electronics and Communication Engineering, Sri Eshwar College of Engineering, Coimbatore | India | India |
| Dr. V.Kannan | Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X┐Cut Signal,R.S.Puram, Coimbatore┐641002 | India | India |

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| Dr.PedakolmiVenkateswarlu | Professor, Computer Science & Engineering, Neil Gogte Institute of Technology, Hyderabad | India | India |
| Mr. Joydeep Banerjee | Assistant Professor , Computing & Analytics, NSHM Knowledge Campus, Durgapur , Durgapur | India | India |
| Dr.S. Sree Hari Raju | Associate Professor, Computer Science & Engineering, Nalla Narasimha Reddy Education Society's Group of Institutions, Hyderabad | India | India |
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**Abstract:**

IoT gateway, a method for bridging various wireless sensor networks over the internet Abstract In general, sensors on devices that report data remotely many companies invest in the Internet of Technology, but there are still plenty of industrial devices that do not have an Internet connection. They are used for things like factory floor automation and application control. The companies that installed them do not want to throw them away, so an IoT gateway connects these devices to the network using wire and wireless options. Companies can then use the data to create telemetry, analysis or the smart grid. IoT gateways enable devices to connect and communicate with each other by translating different algorithms into common ones. It filters out unwanted data from a large volume of data, ensures that communication is secure, and also contributes to data processing.

Complete Specification

Description:Background and Problem with Existing Art
The Internet of Things (IoT) various industries are slowly redefining their business. The type of impact will naturally vary depending on the industry and there are common patterns. First, businesses learn to respond to real-time information that leads to personalized, faster products and services. Second, as customer expectations change - quickly - businesses use analytics to improve their processes and resources at each stage to meet customer expectations. Incompetence is identified and rooted, the basis is data. Third, the products and services provided are the best opportunities to meet customer needs because they are developed based on real-time analytics. Although IoT has had an impact on every aspect of our lives, it has had a particularly dramatic effect on business. This article discusses three industries as case studies: manufacturing and logistics, retail and sanitation. There are fundamental differences between the processing approaches of traditional data and the data streams coming from the Internet of Things (IoT) devices or sensors. Static or traditional data analysis is a linear process, while IoT-generated data analysis is not. The technology and skills required to analyze IoT-generated data are completely different.
One important difference between traditional data and data generated by IoT is that the latter can be provided in real time, which is important for some businesses such as banking, telecommunications and security. Static data, on the other hand, does not provide real-time data, but there are many more applications. IoT-generated data has been the focus of attention for some time, with a lot of buzz around it. However, this does not mean that the time of traditional data is over.
Traditional or static data, simply put, is invariant data. Let us understand this with an example. You fill out a form to select your residency status from a list. The list does not change because the number of states in the United States does not change. Now, the list of these states is maintained somewhere in the system, and it is safe to say that the data is not frequently accessed or processed because the list does not change. The Internet of Things (IoT) represents a creative hurdle that begins to overturn existing

View Application Status

## Patent Search

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|---|---|
| Invention Title | MEASURES TO REDUCE AND MONITOR SOUND POLLUTION IN URBAN AREAS BY MAKING USE OF FOG AND EDGE COMPUTIN |
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**Abstract:**

Abstract of the Invention: The system is designed in such a way that the data is captured by the various devices connected to the edge of the network. The data collected by means of various sensors is used to identify and prepare an action plan on the individuals. The data collected at the local level is then transferred and converted to the digital form after the same is processed and filtration process is performed. The data from the edges will be transferred to the fog systems and then the same after removing the unwanted data will be sent to the cloud server. This process of making use of edge and fog computer will help to reduce the traffic on the Cloud server and then will help to make use of data collected and also to process the important data at a faster rate. The data captured will be processed after converting to the digital form and then checked. Data is collected from all the edges of the network. The data will be sent from the edge computers to the fog computer as to further process and send the same to the cloud server. Data from the cloud can be used in order to identify and generate action plan for the objects/vehicles responsible for creating the sound pollution in the urban areas. Use of this technology will help.to reduce-the traffic-on the network as the filtration of data is happens at two levels. The designed system will identify the sound/noise maker and also will process the action plan or action to be taken on that individual.

Complete Specification

We claim the following

1. The system is designed with the use of edge and fog computers
2. The designed system will capture the data from the local places by making use of the edge computers and the same will be transferred to the fog computers
3. Designed system will be identifying the object from where the sound is generated and then up on checking for the level of intensity i.e with in permissible limits or not, it will process the data and accordingly action will be taken.
4. The data captured will be processed after converting to the digital form and then checked. Data is collected from all the edges of the network.
5. The data will be sent from the edge computers to the fog computer as to further process and send the same to the cloud server.
6. Data from the cloud can be used in order to identify and generate action plan for the objects/vehicles responsible for creating the sound pollution in the urban areas.
7. Use of this technology will help to reduce the traffic on the network as the filtration of data is happens at two levels
8. The designed system will identify the sound/noise maker and also will process the action plan or action to be taken on that individual.
9. The processing happens at a very fast pace and the action will be taken in no time.

View Application Status

## Patent Search

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|---|---|
| Invention Title | METHOD FOR PREDICTIVE LOAD BALANCING IN CLOUD SERVICES |
| Publication Number | 49/2022 |
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| Application Number | 202241069747 |
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**Abstract:**

ABSTRACT METHOD FOR PREDICTIVE LOAD BALANCING IN CLOUD SERVICES The present disclosure relates to the field of load balancing in cloud services in a computing infrastructure. In particular, the present application relates to methods for predictive load balancing in cloud services. The method of load balancing a cloud services comprising: categorizing, by a Data Centre Controller that is intermediate a client and a Central Load Balancer (CLB) comprising one or more servers in one or more network environments, a plurality of cloud service chains, each of the plurality of Cloud Service Chains comprising a path having an instance of a first service provided by the computing infrastructure and an instance of a second service provided by the computing infrastructure, with better load balancing in a large-scale cloud computing environment as compared to previous load balancing. Figure 1 shall be reference figure.

Complete Specification

Description:METHOD FOR PREDICTIVE LOAD BALANCING IN CLOUD SERVICES

TECHNICAL FIELD

[0001] The present disclosure relates to the field of load balancing in cloud services in a computing infrastructure. In particular, the present application relates to methods for predictive load balancing in cloud services.

BACKGROUND

[0002] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0003] A client device may access or use an application, service, or infrastructure provided via a cloud environment that includes one or more servers. The client device may access the cloud environment or one or more servers via an intermediary device that is intermediary to the client device and the servers. However, service instances may be distributed in multiple zones or availability zones (zones) in a cloud environment. Efficiently providing services for instances distributed in a cloud environment can be challenging because the distribution of instances can impact overhead, cost, latency, throughput, or load.

[0004] Various load balancing algorithm have been proposed for cloud computing to provide efficient distribution of load among available machines. A number of techniques proposed for load balancing are based on live virtual machine migration. Ma et al.proposed a new model for distributed load balancing allocation of virtual machine in cloud data center using the TOPSIS method which is one of the most efficient Multi Criteria Decision Making (MCDM) technique. Randles et al. introduced three

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(54) Title of the invention : A SYSTEM FOR DETECTING DENTAL IMPLANT USING AI ACCORDING TO PATIENT'S ORAL HEALTH

(51) International classification :A61C0008000000, G06N0020000000, A61Q0011000000, A61C0001080000, G16H0020400000
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(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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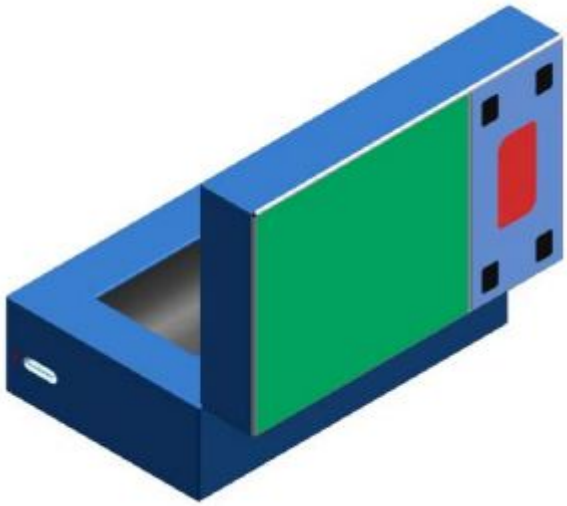
(57) Abstract :
ABSTRACT A SYSTEM FOR DETECTING DENTAL IMPLANT USING AI ACCORDING TO PATIENT'S ORAL HEALTH In the present aspect of the invention, a system (100) for detecting dental implant using AI according to patient's oral health wherein said system (100) comprises an ultrasonic sensor (101) for sensing location of teeth connected to an image capturing module (102) for capturing images within mouth connected to a controller comprises (103) a memory unit (104) has a prestored conditions about various predictions for classification of teeth to implant, a data analyzing module (105) to detect and classify the teeth for implant, a processing module (106) classify teeth using Machine Learning (ML) to find exact location of tooth and proceed further for implanting, a output module (107) shows result after certain intervals to observe the results and a cloud server (108) connected to the output module (107) to stored the results observed during the dental implant of the patient to an authorized user server (109). Figure 1 shall be the reference figure

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

Application Details

## Design Application Details



**Design Number:** 374119-001

**Filing Date:**
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**Article Name:**
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**Class:**
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13/01/2023 00:00:00

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## Priority Details

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(22) Date of filing of Application :26/08/2022

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(43) Publication Date : 16/09/2022

(54) Title of the invention : An Artificially Intelligent Glove for Facile Communication of Differently Abled

(51) International classification :A63B0024000000, G09B0021000000, H04M0003493000, G06F0003000000, B60Q0009000000
(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
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(57) Abstract :
The present invention relates to a device for assisting a disabled person, for converting commands given by fingers. More particularly, the present invention relates to a device for assisting mute and paralysed people having an interactive voice. This invention provides a device for assisting a disabled person, for converting commands given by fingers, to an interactive voice, said device comprises: finger sensors placed on tip of fingers of hand; a central processing unit; for converting commands from sensors into an interactive voice; a speaker; wires connecting the sensors to the central processing unit and to speaker; wherein the central processing unit is pre programmed to specify each finger motion to a specific action, announced by the speaker.

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

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

## Application Filing Receipt

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**CBR Number : 34053** **CBR date: 26-08-2022**

Application Type: ORDINARY APPLICATION
Priority Number:
Priority Date:
Priority Country: Not Selected

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Received documents purporting be to an application for patent numbered 202241048759 dated 26-08-2022 by K. Sudha of Assistant Professor, Department of Computer Science and Business System, RMD College of Engineering, Kavaraipettai, Chennai – 601206, Tamil Nadu, India. relating to An Artificially Intelligent Glove for Facile Communication of Differently Abled together with the Complete and fee(s) of ₹1600 ( One Thousand Six Hundred only).

**Note:**

1. In case of Patent Application accompanied by a Provisional Specification, a complete Specification should be filed within 12 months from the date of filing of the Provisional Specification, failing which the application will be deemed to be abandoned under Section 9(1) of the Patent Act, 1970.
2. You may withdraw the application at any time before the grant of patent, if you with so. If, in addition to withdrawal, you also wish to pravent the publication of application in the Patent Office Journal, the application should be withdrawn within fifteen months from the date of priority of date of filing, whichever earlier.
3. If not withdrawn, your application will be published in the Patent Office Journal after eighteen months from the date of priority of date of filing, whichever is earlier.
4. If you with to get your application examined, you should file a request for examination in Form-18 within 48 months from the date of priority or date of filing, whichever is earlier, failing which the application will be treated as withdrawn by the applicant under Section 11(B)(4) of the Patent Act, 1970.

(For Controller of Patents)

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INTELLECTUAL PROPERTY INDIA
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| Application Details | |
|---|---|
| APPLICATION NUMBER | 202241048759 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 26/08/2022 |
| APPLICANT NAME | 1 . K. Sudha<br>2 . Dr. R. Kumaravelan<br>3 . Ramu Samineni<br>4 . Dr. U. Mohan Kumar<br>5 . T. Raghavendra Gupta<br>6 . Dr. Ajish S |
| TITLE OF INVENTION | An Artificially Intelligent Glove for Facile Communication of Differently Abled |
| FIELD OF INVENTION | ELECTRICAL |
| E-MAIL (As Per Record) | patents@allinnov.org |
| ADDITIONAL-EMAIL (As Per Record) | allinnovrnd@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 16/09/2022 |

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/07/2022

(21) Application No.202241042321 A
(43) Publication Date : 29/07/2022

(54) Title of the invention : An Efficient Formulation of Saccharin Sodium Based Co-crystal for Solubility Enhancement of Lamotrigine

| | |
|---|---|
| (51) International classification | :A61K0009140000, C07D0213820000, C07D0253075000, A61K0009510000, C07D0275060000 |
| (86) International Application No<br>Filing Date | :PCT//<br>:01/01/1900 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

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(57) Abstract :
The present invention discloses a method for improving the solubility of the drug Lamotrigine. Specifically, cocrystals of LTG with Sodium Saccharin by the Co-grinding, Solvent drop and solvent evaporation technique. For the novel cocrystals, structural characterization was done by powder x-ray diffraction (PXRD), infrared spectroscopy (FT-IR), differential scanning Calorimetry (DSC), 1H liquid NMR, and scanning electron microscopy (SEM). In vitro evaluations were done by aqueous solubility and in vitro dissolution drug release and these were compared with the parent drug molecule. The prepared multicomponent co-crystal formulations and pure Lamotrigine were evaluated for intrinsic solubility analysis in case of pure Lamotrigine showed 0.154 (mg/ml), LT-SAC CF I showed high solubility values7.642. In case of LT-SAC CF I showed 49.6 folds solubility increases compared to pure Lamotrigine.

No. of Pages : 22 No. of Claims : 5

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**Application Filing Receipt**

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**CBR Number : 29448** **CBR date: 24-07-2022**

Application Type: ORDINARY APPLICATION
Priority Number:
Priority Date:
Priority Country: Not Selected

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Received documents purporting be to an application for patent numbered 202241042321 dated 24-07-2022 by Ramu Samineni of Assistant Professor, Faculty of Pharmacy, Department of Pharmaceutical Sciences, Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur - 522213, Andhra Pradesh, India. relating to An Efficient Formulation of Saccharin Sodium Based Co-crystal for Solubility Enhancement of Lamotrigine together with the Complete and fee(s) of ₹1600 ( One Thousand Six Hundred only).

**Note:**

1. In case of Patent Application accompanied by a Provisional Specification, a complete Specification should be filed within 12 months from the date of filing of the Provisional Specification, failing which the application will be deemed to be abandoned under Section 9(1) of the Patent Act, 1970.
2. You may withdraw the application at any time before the grant of patent, if you with so. If, in addition to withdrawal, you also wish to pravent the publication of application in the Patent Office Journal, the application should be withdrawn within fifteen months from the date of priority of date of filing, whichever earlier.
3. If not withdrawn, your application will be published in the Patent Office Journal after eighteen months from the date of priority of date of filing, whichever is earlier.
4. If you with to get your application examined, you should file a request for examination in Form-18 within 48 months from the date of priority or date of filing, whichever is earlier, failing which the application will be treated as withdrawn by the applicant under Section 11(B)(4) of the Patent Act, 1970.

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Department of Industrial Policy & Promotion,
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Government of India

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| Application Details | |
|---|---|
| APPLICATION NUMBER | 202241042321 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 24/07/2022 |
| APPLICANT NAME | 1 . Ramu Samineni<br>2 . Dr. Jithendra Chimakurthy<br>3 . Swathi Thumula<br>4 . Dr. B. Jeevan Kumar<br>5 . Anusha Kota<br>6 . M. Sabareesh<br>7 . Dr. U. Mohan Kumar<br>8 . Tirumala Chetty Sudheer Kumar |
| TITLE OF INVENTION | An Efficient Formulation of Saccharin Sodium Based Co-crystal for Solubility Enhancement of Lamotrigine |
| FIELD OF INVENTION | CHEMICAL |
| E-MAIL (As Per Record) | patents@allinnov.org |
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| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 29/07/2022 |

| Application Status | |
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| APPLICATION STATUS | Awaiting Request for Examination |

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/07/2022

(21) Application No.202241039465 A
(43) Publication Date : 15/07/2022

(54) Title of the invention : A FORMULATION FOR IMPROVED DRUG RELEASE CHARACTERISTIC OF GABAPENTIN WITH BENZOIC ACID AS CO-FORMER

| | |
|---|---|
| (51) International classification | :A61K0009140000, A61K0031496000, A61K0009510000, A61K0031519000, A61K0031537700 |
| (86) International Application No<br>Filing Date | :PCT//<br>:01/01/1900 |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

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**3)Dr. Gopinath P**
**4)Syed Muneer**
**5)Kolakaluri Chaitanya Sucharitha**
**6)Tirumala Chetty Sudheer Kumar**
**Name of Applicant : NA**
**Address of Applicant : NA**
(72)**Name of Inventor :**
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(57) Abstract :
The present invention relates to the field of pharmaceutical drugs and more specifically it discloses a formulation of the drug Gabapentin's novel co-crystals with the co-former Benzoic Acid aimed at the improved drug release characteristics. Novel co-crystals in current study was prepared by using solvent drop method, co-grinding method and solvent evaporation method in stichiomentric ratio of 1:1. Co-crystals were characterized by standard calibration curve, FTIR, PXRD, flow properties, intrinsic solubility, dissolution rate and in vivo study. The solvent evaporation method of producing co-crystals is producing best results while compare to other methods. The drug release profile high in GBP-BA CF (98.3%) at the end of 360th minute while compared to other formulations.

No. of Pages : 20 No. of Claims : 5

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## Application Filing Receipt

**Goverment of India**
**Patent Office**
Intellectual Property Office Building,
G.S.T. Road, Guindy,
Chennai -600032
Phone- 044-22502081-84
Fax: 044-22502066
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**CBR Number : 27295** **CBR date: 09-07-2022**

Application Type: ORDINARY APPLICATION
Priority Number:
Priority Date:
Priority Country: Not Selected

To,

Ramu Samineni

Allinnov Innovations and Intellectual Property Services, #360E, First Floor, Senthur Murugan Kovil Street, Opp. SM Mahal, Oldpet, Krishnagiri - 635001, Tamil Nadu, India

Received documents purporting be to an application for patent numbered 202241039465 dated 09-07-2022 by Ramu Samineni of Assistant Professor, Department of Pharmaceutical Sciences, Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur, Andhra Pradesh-522213, India relating to A FORMULATION FOR IMPROVED DRUG RELEASE CHARACTERISTIC OF GABAPENTIN WITH BENZOIC ACID AS CO-FORMER together with the Complete and fee(s) of ₹1600 ( One Thousand Six Hundred only).

**Note:**

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

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

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

| Application Details | |
|---|---|
| APPLICATION NUMBER | 202241039465 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 09/07/2022 |
| APPLICANT NAME | 1 . Ramu Samineni<br>2 . Dr. Jithendra Chimakurthy<br>3 . Dr. Gopinath P<br>4 . Syed Muneer<br>5 . Kolakaluri Chaitanya Sucharitha<br>6 . Tirumala Chetty Sudheer Kumar |
| TITLE OF INVENTION | A FORMULATION FOR IMPROVED DRUG RELEASE CHARACTERISTIC OF GABAPENTIN WITH BENZOIC ACID AS CO-FORMER |
| FIELD OF INVENTION | CHEMICAL |
| E-MAIL (As Per Record) | patents@allinnov.org |
| ADDITIONAL-EMAIL (As Per Record) | allinnovrnd@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
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| Application Status | |
|---|---|
| APPLICATION STATUS | Awaiting Request for Examination |

View Documents

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➡ Disposed

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

(21) Application No.202241064573 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : Design and Development of Automated attendance management system based on Face Recognition Algorithms

(51) International classification :G06Q0050200000, G06Q0010100000, G07C0001100000, G09B0007000000, G06Q0010060000
(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 :
Design and Development of Automated attendance management system based on Face Recognition Algorithms ABSTRACT The managers of educational institutions in our nation and throughout the globe are more concerned with students' regular attendance than anything else. Checking students' attendance is a major problem for colleges since they include students' attendance when determining their final grade. The teachers take into account a student's overall number of class attendance throughout the course of the semester. The presence of students in the institute has an impact on their general academic performance. Calling out student names or getting their signatures on a piece of paper are the two main traditional ways for recording attendance. They both took more time and were less effective. However, the current manual method of recording student attendance is inefficient since it takes a lot of time to call out students' names and record their attendance as absence or presence. The amount of time needed to record attendance rises with the number of pupils in the class. In addition, a student's companion may summon presence in his or her absence. Consequently, a computer-based student attendance management system is needed to aid the teachers in maintaining students' attendance. This invention explains the issue of controlling the number of attendances or absences in the educational facility and suggests a method for recording and managing these data. The study favours an automated method over daily handwritten attendance records as a means of streamlining the procedure. Data about the students and instructors in this study is kept in a database. The institution will be in charge of maintaining the database itself, enabling it to deliver reports on an as-needed basis in both electronic and printed form, whether they are individual or group-based.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/11/2022

(21) Application No.202211066338 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : MULTI-TASK MULTI-KERNEL LEARNING TECHNIQUE TO ASSESS AND CLASSIFY BIO AND PSYCHOLOGICAL SIGNALS

| | |
|---|---|
| (51) International classification | :A61B0005160000, G01N0021359000, A61B0005000000, G06N0003080000, G16H0050200000 |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

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**5)Prof. Meenu Singh**
**6)Mr. Rajeev Ratna Vallabhuni**
**7)Yadavalli. S. S. Sriramam**
**8)Dr. R. V. S. Lalitha**
**Name of Applicant : NA**
**Address of Applicant : NA**
(72)**Name of Inventor :**
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**3)Prathiba Jonnala**
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(57) Abstract :
A number of computational methods have been proposed for determining overall emotional state of the user's biological and psychological signals, in order to design better interfaces that can adjust to the demands and internal states of the user. Despite the fact that results for inferring the user state under highly controlled conditions have been obtained with reasonably decent results, there is still much effort to be done in order to learn high-quality estimates of subjective evaluations of the user state under more natural conditions. To evaluate and categorize biological and psychological inputs, we used multi-task multiple kernel learning in particular in this invention. In the development of objective bio and psychological signals detection, as well as the application of functional near-infrared spectroscopy and machine learning approaches, our findings show the value of adopting individualized analysis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2022

(21) Application No.202241069253 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : ANALYSIS OF WHY GOVERNMENT SCHOOL STUDENT LACKING ENGLISH LEARNING ABILITY

(51) International classification :G06Q0050200000, G09B0019060000, G09B0005060000, A45F0003040000, A61K0036520000
(86) International Application No :NA
Filing Date :NA
(87) 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. K. Thiyagarajan**
**6)Dr. Hemamalini N**
**7)Dr. Anita Kumari**
**8)Dr. P. Karthi**
**9)Jayapratha R**
**10)Mr. Kamble Ketan Laxman Aruna**
**11)Dr. R. Sivajothi**
**12)Dr. J. Kamatchi Eswaran**
**Name of Applicant : NA**
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(57) Abstract :
ANALYSIS OF WHY GOVERNMENT SCHOOL STUDENT LACKING ENGLISH LEARNING ABILITY Abstract It is welcome that English will also be the medium of instruction in government schools. English has become the lingua franca whether we like it or not in the globalized society and economic climate. Especially in a situation where all world communication and trade is done through English, it is necessary to learn subjects through this language. There is no denying that there is no denying that education is through mother tongue. No doubt that is a healthy education. This announcement by the government is nothing but a reflection of today's situation. Currently, all the schools, including government and private, are failing to learn properly because they see both Tamil and English as mere subjects without a vision of language. This program can only succeed if this level changer produces students who are able to think, speak and write through their mother tongue and through English. Mother tongue is our foundation, English is our future. We must build our future while protecting the foundation. Therefore, English medium of education can be welcomed.

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

## Patent Search

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|---|---|
| Invention Title | Evaluation and Concentration of metals present in chocolate, candies and puree |
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| Publication Date | 23/12/2022 |
| Publication Type | INA |
| Application Number | 202241066488 |
| Application Filing Date | 19/11/2022 |
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| Field Of Invention | PHYSICS |
| Classification (IPC) | G01N0023223000, G06Q0030060000, B65D0085600000, G01N0023220200, A23G0001300000 |

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**Abstract:**

This investigation was started as a follow-up information on several impounded items, namely chocolates and sweets (Samples A, B, C, and D), that were imported from other countries and sold in marketplaces in Nigeria. Because of this, they were unable to fulfill the regulatory requirements set out by the National Agency for the Administration and Control of Food and Drugs (NAFDAC). These goods' samples were gathered from a variety of Indian marketplaces around the country. X-ray fluorescence was used to analyze the amounts of many different heavy metals (Cu, Mn, Fe, Ni, Zn, Ti, and Cr) that were present in the samples. This was done with the intention of determining the degree of quality present in the items (XRF). The concentrations of metals in chocolates and candies ranged from 3.0 mg/g to 4.2 mg/g for copper, from 40.0 mg/g to 55.7 mg/g for manganese, from ND mg/g to 102.5 mg/g for iron, from ND mg/g to 305.0 mg/g for nickel, from ND mg/g to 42.5 mg/g for zinc, from ND mg/g to 23.8 mg/g for titanium, and from ND mg/g When compared to the findings of prior research conducted in Nigeria on candies and chocolates, the amounts of these metals were found to be significantly higher in Samples A, B, C, and D. The investigation of correlations between different metals indicated positive correlations, which suggests that these metals come from the same sources.

Complete Specification

Description:The proposed invention related to metals present in Concentration of metals present in chocolate, candies and puree.
Background of the invention:
Over the last several years, there has been a growing worry regarding the quality of imported foods and items connected to the food industry in numerous countries. regions of the globe (Maxwell & Neumann, 2009), with an emphasis on those coming from outside. This is because of the substantial magnitude of shipments, the many various methods of entry, the many different kinds of goods that are imported, and the enormous number of prospective consumers Contaminants make it difficult to effectively ban the use of tainted foods (CRS Report for Congress, 2008).
In addition, numerous goods are carried into the nation by visitors, particularly by citizens who are travelling back and forth inside the country back and forth to the nation on a regular basis. Chocolates, sweets, biscuits, and bean paste are some of the most often imported goods.
paste, bean curd, different teas, and nuts and spices of varying kinds (CRS Report for Congress, 2008) Taking into account the fact that items went through a variety of manufacturing procedures before being packed to give a certain a method for safeguarding, marketing, or handling, with the majority of them having colour inks printed on the outside cover (Kim)et al., 2008). Importantly, food items like sweets that are likely to be taken regularly by children are more likely to include Youngsters are presented to parents in brightly coloured packaging in an effort to get them to buy the merchandise. The heavy metals, include because lead, cadmium, titanium, zinc, and copper have the ability to go from the printed surface to the food contact surface through four distinct pathways.
blocking, rubbing, peeling, and diffusion are the four mechanisms (Bradley et al., 2005). contamination of food that was imported Because even low levels of exposure to heavy metals may pose a significant threat to human health, items containing these elements should be avoided

View Application Status

## Patent Search

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|---|---|
| Invention Title | Development of a transition metal based organo-metallic complexes used as catalysts for curing of benzoxazines at low temperature |
| Publication Number | 12/2022 |
| Publication Date | 25/03/2022 |
| Publication Type | INA |
| Application Number | 202241015648 |
| Application Filing Date | 22/03/2022 |
| Priority Number | |
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| Field Of Invention | POLYMER TECHNOLOGY |
| Classification (IPC) | C08J0005240000, C07D0265160000, C08F0004760000, C07D0265360000, C04B0035626000 |

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**Abstract:**

The present invention relates to the production of new transition metal complex catalyst to obtain low temperature cure benzoxazines in order to fabricate and interface benzoxazines with low melting substrates to obtain high performance products for different industrial and engineering applications. The iron, zinc, nickel and cadmium based metal complexes developed in the present invention facilitates polymerization of benzoxazines at lower temperature when compared with that of neat benzoxazines. The incorporation of different types of transition metal complex catalysts with benzoxazine sample lowers the cure temperature to an appreciable extent according to the nature and weight concentration of the catalysts.

Complete Specification

Claims:We claim,

1. A new process route for the preparation of a novel transition metal based metal complexes as catalyst to obtain low temperature cure benzoxazines formulations to fabricate benzoxazines interfaced with low melting substrates in order to obtain high performance applications. Transition metal based metal complexes are prepared with dithiolane-bis(furan) as ligand and metal chloride/bromide/acetate used as metal precursor in the presence of suitable organic solvents over the temperature range between 25°C and 35°C for 10-12 h.
2. The process of claim 1, wherein the one molar ratio of ligand and one molar ratio of metal precursor (iron chloride, nickel chloride, nickel bromide, zinc chloride, zinc bromide, zinc acetate, cadmium chloride, and cadmium bromide) are used for the synthesis of metal complexes.

Preferably iron chloride, nickel chloride, nickel bromide, zinc chloride, zinc bromide, zinc acetate, cadmium chloride, and cadmium bromide used as metal precursor.

Most preferably iron chloride, nickel bromide, zinc chloride, zinc acetate, and cadmium chloride used as metal precursor.

3. The process of claim 2, wherein the reaction was carried out with benzene and toluene as solvent. Most preferably toluene used as solvent.
4. The process of claim 3, wherein the crude product is washed with n-pentane, and n-hexane. Most preferably n-pentane.
5. The process of claim 4, wherein the yield of the complexes obtained is about 85-95 % with purity of about 95 %.
6. The process of claim 5, obtained transition metal complexes were used as an effective catalyst to lower the curing temperature of benzoxazine formulations.

Preferred weight loading of catalyst in to benzoxazine formulation in the range of 3 to 10 weight %.

Preferably the catalyst loading in to benzoxazine formulation is 5 weight %

View Application Status

(12) PATENT APPLICATION PUBLICATION
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(21) Application No.202241068552 A
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(54) Title of the invention : A NOVEL AUTOMATIC FOCAL ELECTROENCEPHALOGRAM (EEG) SIGNALS DETECTION SYSTEM WITH MULTIRESOLUTION ANALYSIS

(51) International classification :A61B0005000000, A61B0005369000, A61B0005291000, G06N0003120000, G16H0050200000
(86) International Application No :PCT// /
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(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The electrical activity of the human brain is recorded as electroencephalogram (EEG). The electrical current passing through nerves during the brain activities is recorded to know the health of the human brain. The EEG signals for epileptogenic focus prior to surgery to remove damaged parts of the human brain is an important first step in the treatment process. The classification of such a EEG signals will be helpful in monitoring the patient's brain activity. The present invention disclosed herein is a novel automatic focal electroencephalogram (EEG) signals detection system with multiresolution analysis comprising of: Acquisition (201); Preprocessing (202); HHT Transform (203); Segmentation (204); Feature Extraction (205); GA Optimization (206); Classification (207); and Performance (208); used to detect the focal EEG signals. The EEG signals are classified based on the statistical features and the multi-resolution analysis is carried with the Hilbert-Huang Transform (HHT). The present invention disclosed herein uses genetic algorithm (GA) to optimize the extracted features before classification. The present invention is carried on the Matlab environment with version R2020a.

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(12) PATENT APPLICATION PUBLICATION
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(54) Title of the invention : A SYSTEM FOR PROVIDING MACHINE LEARNING BASED INTERPRETATION OF DIGITAL VIDEO WITH COMPUTER VISION MEANS

(51) International classification :G06K0009620000, G06N0020000000, G06N0020200000, G16H0015000000, G06N0005000000
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(57) Abstract :
The present invention discloses a system for providing machine learning based interpretation of digital video with computer vision means. the present invention formalizes fundamental ideas and methods for video interpretation in the context of building. Its main goal is to develop a system that will enhance communication between existing knowledge of construction operations and computer vision methods. This technique is used to direct the identification of aberrant production scenarios, the classification of work states, and the detection and tracking of project resources. The developed strategy might serve as a basis for creating automated video interpretation techniques that would significantly advance the way data is now collected and analyzed in the various industry. The proposed video interpretation approach has the potential to be a more productive data processing tool, according to experimental findings from preliminary idea. Accompanied drawings [FIG. 1-2]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/11/2022

(21) Application No.202241068296 A
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(54) Title of the invention : AN X/KU-BAND SERIES-FED CENTER-FED SHARED APERTURE ANTENNA ARRAY FOR AIR-BORNE SYNTHETIC APERTURE RADAR APPLICATIONS

(51) International classification :H01Q0021060000, H01Q0021000000, G01S0013900000, H01Q0001520000, H01Q0021280000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses an X/KU-band series-fed center-fed shared aperture antenna array for air-borne synthetic aperture radar applications. a shared-aperture antenna (SAA) dual-band single polarized (DBSP) high gain antenna and isolation improvement for applications in Airborne Synthetic Aperture Radars (AIR-SARs). This SAA operates in both X-band and Ku-band with a frequency ratio of 1:1.426. To utilize the common aperture, the SAA consists of 4-groups arrays each with 5-element at X-band and 1-group each with 5-element at Ku-band planar array square microstrip patches are used as X/Ku-band SAA. The inter-element spacing between two patches are considered 0.7λ for the ±25◦ scan range requirements. The X-band (9.3 GHz) is best suited for soil moisture estimation in agriculture area; Ku-band (13.265 GHz): is mainly for snow and cold regions, and for disaster monitoring. To verify the antenna design concept, a prototype is fabricated and measured with both S-parameters and radiation characteristics including gain measurements. The impedance matching bandwidth is 146/262 MHz (X/Ku-SAA), return loss is −19/− 22.24 dB (X/Ku) and high isolation between bands is 67 dB and isolation between in-band ports are P12/P23/P13, size of the SAA is 160 mm × 160 mm × 1.6 mm. Accompanied Drawings [Figure 1-24]

No. of Pages : 29 No. of Claims : 6

## Patent Search

| | |
|---|---|
| Invention Title | MACHINE LEARNING BASED SOLAR POWER TRACKING SYSTEM FOR ELECTRIC VEHICLES |
| Publication Number | 03/2022 |
| Publication Date | 21/01/2022 |
| Publication Type | INA |
| Application Number | 202241000709 |
| Application Filing Date | 06/01/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | PHYSICS |
| Classification (IPC) | H02S0020320000, F24S0050200000, F24S0030000000, H02S0020300000, H02S0030200000 |

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**Abstract:**

This invention focuses on Machine Learning based solar tracking system to replace the utility power by renewable solar power to meet the increasing demand of energy to drive electric vehicles. Optimal solar power can be generated only when the solar panels are exposed to direct sunlight. But any change in weather condition results in cloudiness in real time, in such case angle of the solar panel has to be turned towards the sunlight. This invention proposes a novel smart powering technique where the solar energy is tracked in an autonomous way for increasing the production of solar energy. The solar tracker fixed biaxially is equipped with two small solar modules additionally. First module is horizontally installed and the second module is installed biaxially in the solar tracker. Position of the solar panel is controlled by the Machine learning algorithm which takes input from prior data on sun trajectory through the year and also on output current generated from the solar panels. When sun light reduces due to clouds, then the current from small solar horizontal module will be more that of module oriented to the sun. This system is able to generate 18% solar energy more than conventional system in the presence of clouds such that able to provide optimal power for the electric vehicle.

Complete Specification

Field and Background of the system
Fuel being the non-renewable resource is depleting as the vehicle population is
drastically increasing. Most promising low cost renewable energy is offered by solar power which can be made available for charging of electric vehicles as the cost of fuel is continuously increasing. But the availability of solar power round the clock is not possible hence a vehicle that is powered both by solar power and electric power is disclosed in this invention through solar panels.
Renewable energy sources are replacing utility grid for effective performance of appliances. Power generated through these sources is stored in batteries for future usage. Electric Vehicles operates based on the charge of these batteries. Optimized performance of the electric vehicles depends on the management of these rechargeable batteries. Renewable energies can be commercialized and can be utilized for residential applications only when technical solutions are involved in evaluating the involved system in order to promote sustainability and energy efficiency.

Description of the System:
- This invention develops a smart powering technique by tracking the solar energy in an intelligent way based on the Machine Learning algorithm.
- In the proposed system biaxial solar tracker is involved as the uniaxial solar tracker does not consider the distance of sun during daytime and can rotate only in horizontal plane towards the direction of the sun.
- Biaxial solar tracker in this system has the advantage of consideration of distance of sun during day time throughout the year

View Application Status

## Patent Search

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|---|---|
| Invention Title | ELECTRIC FIELD DISTRIBUTION FACTOR FOR OPTIMIZATION OF GAS INSULATED BUS DUCT |
| Publication Number | 13/2022 |
| Publication Date | 01/04/2022 |
| Publication Type | INA |
| Application Number | 202241016653 |
| Application Filing Date | 24/03/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | ELECTRICAL |
| Classification (IPC) | H02G0005060000, H02G0005000000, H02B0013045000, H02B0013035000, G06F0111060000 |

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**Abstract:**

The current invention is meant for novel optimization of gas insulated bus duct considering electric field distribution factor. Gas Insulated Substation (GIS) is essential for the transmission and control of power both in AC and DC electrical systems. An optimally designed conductor is essential for the designing of a reliable GIS at affordable cost. In recent times, Functionally Graded Material (FGM) technology is widely used for the design of the spacer material in the GIS to reduce the electric stress in the system. This invention supports a novel optimization method for the optimization of the conductor size. The conductor radius is optimized to optimize the use of copper for the conductor. A novel index, namely, electric field distribution factor (EFDF), which is a combined representation of maximum stress and standard deviation is proposed for the determination of the optimal value of the dielectric material. Thereafter, a post type spacer has been incorporated in the system. The material of the spacer has been optimized using FGM technology. The performance of the optimized system has been studied and compared with a system without FGM. This invention has benefits to many stakeholders such as power distribution companies, governments, entities associated with power distribution, researchers and academia.

Complete Specification

Claims:

1. An invention meant for novel optimization of gas insulated bus duct considering electric field distribution factor.
2. Design of HVDC GIB suitable for effective power distribution system.
3. A procedure for optimization of GIB post type spacer.
4. A procedure for design optimization of Gas Insulated Substation (GIS) for leveraging efficiency.
5. A methodology for computation of electric field distribution factor that is crucial in the current invention.
6. An objective function for the design of optimum conductor radius to alleviate stress and avoid overheating.
7. A solution to the problem of electric field distribution factor for optimization of gas insulated bus duct.

, Description:FIELD OF INVENTION

The current invention is meant for novel optimization of gas insulated bus duct using electric field distribution factor. Gas Insulated Substation (GIS) is essential for the transmission and control of power both in AC and DC electrical systems. An optimally designed conductor is essential for the designing of a reliable GIS at affordable cost. In recent times, Functionally Graded Material (FGM) technology is widely used for the design of the spacer material in the GIS to reduce the electric stress in the system. This invention supports a novel optimization method for the optimization of the conductor size. The conductor radius is optimized to optimize the use of copper for the conductor. A novel index, namely, electric field distribution factor (EFDF), which is a combined representation of maximum stress and standard deviation is proposed for the determination of the optimal value of the dielectric material. Thereafter, a post type spacer has been incorporated in the system. The material of the spacer has been

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## Patent Search

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|---|---|
| Invention Title | SOLAR HOME AUTOMATION AND SECURITY SYSTEM |
| Publication Number | 52/2022 |
| Publication Date | 30/12/2022 |
| Publication Type | INA |
| Application Number | 202241074118 |
| Application Filing Date | 21/12/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04L0012280000, H04N0007180000, G08B0013196000, H02J0007350000, G08B0025140000 |

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**Abstract:**

Home automation is a technological phenomenon which enables authorized people to control appliances and perform certain household tasks even from a remote place. Home automation also encapsulate security systems such as surveillance cameras, smoke detectors, alarm systems and other sensors to have holistic approach towards home automation. With minimal human intervention home automation functions as desired. The current invention is known as “Solar Home Automation and Security System” which is meant for enabling home automation and security procedures to run through self-sustained solar energy. The system is designed in such a way that its home automation and security mechanisms function with solar energy without entirely relying on government supplied electricity. This invention exploits Arduino UNO R3 microcontroller board, various sensors, HC-05 Bluetooth module and other components. It is equipped with a solar panel along with solar energy system which generates power required by the home automation system. Safety and security measures are involved in the design of solar system and its integration with the home automation system. This invention is eco-friendly as it does not emit greenhouse gases into atmosphere. Besides, the system achieves reliability and availability due to self-contained energy along with main power supply. This invention is beneficial to many stakeholders such as smart home service providers, smart city service providers, Internet of Things (IoT) based automation service providers, governments, researchers and academia.

Complete Specification

Description:FIELD OF INVENTION
The current invention is known as “Solar Home Automation and Security System” which is meant for enabling home automation and security procedures to run through self-sustained solar energy. The system is designed in such a way that its home automation and security mechanisms function with solar energy without entirely relying on government supplied electricity. This invention exploits Arduino UNO R3 microcontroller board, various sensors, HC-05 Bluetooth module and other components. It is equipped with a solar panel along with solar energy system which generates power required by the home automation system. Safety and security measures are involved in the design of solar system and its integration with the home automation system. This invention is eco-friendly as it does not emit greenhouse gases into atmosphere. Besides, the system achieves reliability and availability due to self-contained energy along with main power supply.

The invention has various components to realize its functionality. HC-06 Bluetooth Module is meant for communication efficiency. It has complete underlying mechanisms to support better communication. Arduino Nano is another micro controller which is meant for controlling security system in the current invention. It exploits sensors and actuators and provide interface to interact with the external world. The relay module is important for providing relay channels. The four relays on the module are rated for 5V, which implies that when there is about 5V across the coil, the relay is engaged. The switching transistors serve as a buffer between the relay coils, which require high currents, and the low-current inputs. They magnify the input signal so that the coils in the relays may be driven. Because the coils provide an inductive load, the freewheeling diodes avoid voltage spikes across the transistors when the relay is turned off. IR sensor is part of IR technology usage in the current invention. This technology is required by sensors and controllers involved in the system. The MQ2 gas sensor is an electrical sensor that detects the concentration of gases in the air, such

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## Patent Search

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| Invention Title | IMPROVEMENT IN POWER QUALITY ACHIEVED THROUGH THE IMPLEMENTATION OF AN ARTIFICIAL INTELLIGENCE (AI)-BASED DYNAMIC VOLTAGE RESTORER (DVR) |
| Publication Number | 46/2022 |
| Publication Date | 18/11/2022 |
| Publication Type | INA |
| Application Number | 202241063159 |
| Application Filing Date | 04/11/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | ELECTRICAL |
| Classification (IPC) | H02J0003010000, H02J0003180000, H02J0003380000, H02J0003120000, H01J0029500000 |

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**Abstract:**

IMPROVEMENT IN POWER QUALITY ACHIEVED THROUGH THE IMPLEMENTATION OF AN ARTIFICIAL INTELLIGENCE (AI)-BASED DYNAMIC VOLTAGE RESTORER (DVR) ABSTRACT The dynamic voltage restorer is an innovative technique for addressing voltage drops and spikes in power systems. The Dynamic Voltage Restorer consists of injection transformers, a voltage source inverter, passive filters, and a battery bank. In order to address the problem of voltage variations on the grid, the dynamic voltage restorer injects three-phase current at the same time that the grid voltage varies. Power quality has a substantial impact on the dependability of energy for residences and businesses. In the worst-case situation, power quality concerns such as sags, swells, harmonic distortion, and other disturbances can destroy electronics and machinery, necessitating costly repairs. To preserve the reliability and efficacy of the electrical system, all forms of problems must be discovered and rectified as rapidly as possible. Various forms of power tools are utilised to overcome these obstacles. The Dynamic Voltage Restorer is the most effective and efficient technology used in power distribution networks at now. The suggested system has fewer switching parts and stronger compensatory capacities than currently used compensators. A dynamic voltage restorer is a series-connected power electronics device that uses an injecting transformer to detect and inject voltage components. The system is hence less concerned with power quality. In this situation, soft computing technologies, such as fuzzy logic, are necessary. Utilizing a novel fuzzy rule base, the system will be able to address recurrent power quality issues. MATLAB/SIMULINK is used for modelling and simulation purposes.

Complete Specification

Description:DESCRIPTIONS
As global digitalization progresses in an effort to make things faster and more efficient, nonlinear loads and electricity consumption must increase. Every appliance and electronic gadget needs a constant, sinusoidal, and high-frequency power source. In practise, a considerable number of nonlinear loads are connected to this distribution network, degrading the quality of the total power supply. This has quickly led to a decline in the high power quality received by many users. Voltage management and power enhancement are required. The importance of power quality for electric utilities and large commercial and industrial power consumers is growing. When the bus voltage approaches a perfect sinusoid at the correct frequency, the power quality is deemed to be good. This number can be used to evaluate power supply. In order to operate more sensitive loads, automate more processes, and improve output quality, customers require more power. Standard criteria for power quality include low total harmonic distortion (THD), stable frequency, symmetrical three-phases, pure sinusoidal wave form, and a consistent root-mean-square (rms) value. In order to ensure optimum power quality, the values of these parameters must remain within the regulatory limits. The most obvious and expensive effects of low power quality are noticed in large commercial and industrial activities, notably when goods or equipment fail. Reduce the amount of voltage distortion caused by harmonics to increase power. Utilizing a range of controllers, such as artificial neural networks, sliding mode controls, and digital variable resistors, the suggested method achieves the lowest possible overall harmonic distortion. It is essential to regulate the voltage precisely, which includes achieving the correct magnitude and amplitude. As more and more equipment consume large amounts of electricity, power quality has become an issue requiring increased attention. When manufacturers encounter PQ challenges, the quality of their products deteriorates, their machines break down, and production is suspended until the problem is remedied. These are some of the most common problems that arise when PQ is a concern. Mishandling or causing damage to industrially sensitive loads might cost significantly more than any PQ concerns they may cause. As power

View Application Status

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(19) INDIA
(22) Date of filing of Application :09/05/2022

(21) Application No.202241026790 A
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(54) Title of the invention : INDUSTRY 4.0 BASED ML AND INTERNET OF THINGS FOR OBSERVING AND SAFEGUARD THE ENERGY METER OVER INTERNET

(51) International classification :G06N0020000000, G01D0004000000, G06F0016950000, G06K0009660000, A47J0036320000
(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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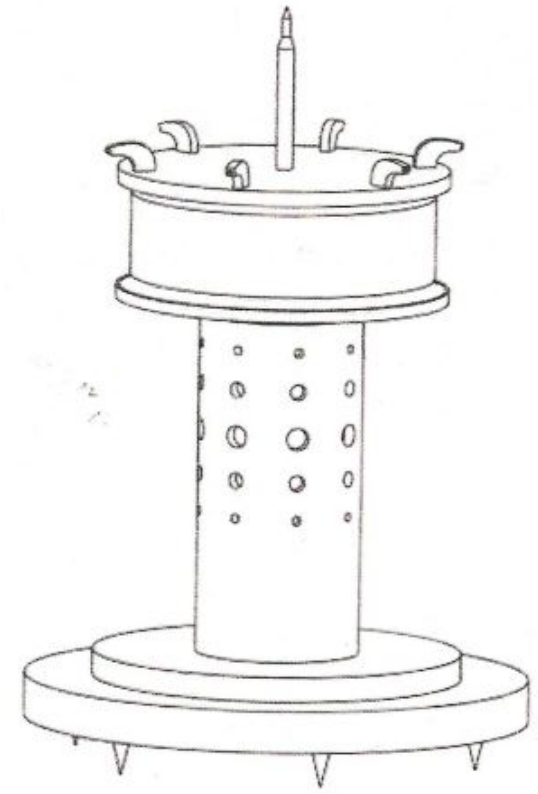
(57) Abstract :
ABSTRACT INDUSTRY 4.0 BASED ML AND INTERNET OF THINGS FOR OBSERVING AND SAFEGUARD THE ENERGY METER OVER INTERNET Smart machines are the major achievement of the computer based revolution. It has acquired a big part industries and their functioning to increase efficiency and work with ignorable flaws. Machine learning and internet of things are the modern technologies that rule this space. To overcome reliability and guarantee security industry 4.0 is majorly dependent on internet of things and machine learning based smart machines such as energy meter. Smart energy meter controls and checks meter readings by collecting data for output and makes it available to the user through a mobile app or website.

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

# Application Details

## Design Application Details



**Design Number:**

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**Filing Date:**
28/12/2022 13:44:00

**Article Name:**
An artificial intelligence based device for agriculture and surveillance

**Class:**
10-05-INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING, SECURITY OR TESTING

**Journal Number:**
29/2023

**Journal Date:**
21/07/2023 00:00:00

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Record Not Found !

## Patent Search

| | |
|---|---|
| Invention Title | DEEP LEARNING BASED PREDICTIVE ALGORITHM TO PREDICT THE PROFIT AND LOSS OF A PARTICULAR ORGANIZATION THROUGH SIX SIGMA METHODOLOGIES |
| Publication Number | 38/2022 |
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| Application Number | 202211051591 |
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| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06Q0010060000, G06N0003080000, G06N0003040000, A61K0039395000, G06F0003034600 |

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**Abstract:**

Deep learning based predictive algorithm to predict the profit and loss of a particular organization through six Sigma methodologies is the proposed invention. The proposed invention focuses on designing a framework of six sigma methodology to monitor various tasks of an organization. The proposed invention will aim to predict the profit or loss of an organization after implementing six sigma modules.

**Complete Specification**

FIELD OF INVENTION
The present invention relates to the field of designing & implementing a framework of machine learning based predictive algorithms to predict the profit or loss of a particular organization. The six sigma methodologies are incorporated in organizational activities and the profit or loss is predicted.
BACKGROUND OF INVENTION
[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[0002] Financial Management is defined as dealing with and analysing money and investments for a person or a business to help make business decisions. Financial Management is strategic planning, organising, directing and controlling of financial undertaking in an organization or an institute. It also includes applying management principles to the financial assets of an organization, while also playing an important part in fiscal management.
[0003] A number of different types of financial analysis of an organization that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
[0004] US20130332244A1 The exemplary embodiments of the invention provide at least a method and machine including a memory tangibly embodying at least one program of instructions executable by at least one processor to perform operations with the machine including inputting project data of at least one project, applying more

View Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/04/2022

(21) Application No.202241020086 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : Fast statistical imaging reconstruction by algebraic reconstruction technique

(51) International classification :G06T0011000000, G06T0005000000, G01R0033560000, G06T0005100000, A61B0008080000
(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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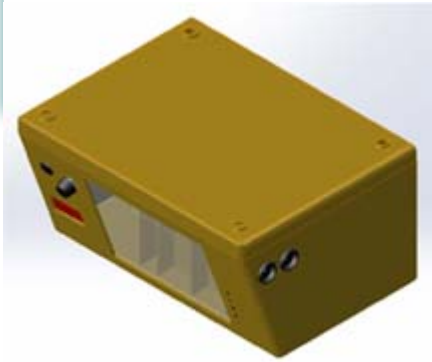
(57) Abstract :
Systems and techniques for iteratively reconstructing pictures from data captured using a medical imaging system are described in this paper. a. Introduction: The picture reconstruction issue is broken into discrete linear sub-problems, each of which can be handled more efficiently than the previous one. A statistical image reconstruction process is split into a statistically-weighted algebraic reconstruction update sequence and a statistically-weighted algebraic reconstruction update sequence. Using a regularization function, the rebuilt picture is then denoised when this stage is completed.

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

Application Details

## Design Application Details



**Design Number:** 346718-001

**Filing Date:** 23/07/2021 22:47:24

**Article Name:** High Flow Oxygen Therapy Device

**Class:** 24-01-APPARTUS EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

**Journal Number:** 51/2022

**Journal Date:** 23/12/2022 00:00:00

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Priority Details

Record Not Found !

Australian Government

IP Australia

# CERTIFICATE OF GRANT

# INNOVATION PATENT

**Patent number:** 2021105079

The Commissioner of Patents has granted the above patent on 27 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

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**Title of invention:**

THE CONTROLLING MACHINE TOOLS SYSTEM BY USING MACHINE LEARNING TECHNIQUES.

**Name of inventor(s):**

Singh, Simar Preet; Muduli, Kamalakanta; Mohamaed, Aezeden; Yadav, Saneh Lata; Anil Kumar, T. CH; Nidhya, M. S.; Anusha, R.; Ramanujam, Brinda; Rani T., Sunitha; R., Gavoury and Kumar, Gummadi Anand

**Term of Patent:**

Eight years from 7 August 2021

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 27th day of April 2022

Commissioner of Patents

**PATENTS ACT 1990**

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

Australian Government

IP Australia

# CERTIFICATE OF GRANT

# INNOVATION PATENT

**Patent number:** 2021105079

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 April 2022

Commissioner of Patents

**PATENTS ACT 1990**

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

**Extracts from the Patents Act, 1990**

**Sect 120(1A)** Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

**Sec 128** **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

**Sec 129A** **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

*Certain threats of infringement proceedings are always unjustifiable*.

(1) If:

(a) a person:

(i) has applied for an innovation patent, but the application has not been determined; or

(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;

then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

*Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent*

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

*Courts power to grant relief in respect of threats made by the patentee of certified innovation patent*

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

**Schedule 1** **Dictionary**

***certified***, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

## Patent Search

| | |
|---|---|
| Invention Title | Automatic Computer Vision and AI based smart Robot system for surveillance |
| Publication Number | 37/2022 |
| Publication Date | 16/09/2022 |
| Publication Type | INA |
| Application Number | 202241049864 |
| Application Filing Date | 31/08/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | CHEMICAL |
| Classification (IPC) | C02F0103000000, B63J0004000000, C07D0239420000, G01R0001067000, G06T0011600000 |

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**Abstract:**

This disclosure pertains to artificial intelligence-based systems and methods for determining traffic offenses via surveillance employing robots. The systems and methods are described herein. The present disclosure provides systems and methods that make use of deep convolutional neural networks and machine vision-based algorithms to perform a task of detection and recognition to provide a complete solution to safe, legal, and comfortable parking, driving, and riding for commuters on the roadways. These systems and methods can be used to perform a task of detection and recognition to provide a complete solution. When built on demand and using crowdsourcing, roadway stewardship systems and parking management systems have the potential to play a very significant part in the regulation of driving conditions in urban areas and on highways. Users can be trained to recognize and be educated as well in the laws and regulations surrounding the use of roadways by enabling the on-demand, crowd-sourced roadway stewardship system to be automated through the use of Artificial Intelligence (AI) sub-systems. Users can also help the process through an interactive console/game-play, which can also be used for monetization for individuals to earn money for their contribution. This can be accomplished by allowing the on-demand, crowd-sourced, and roadway stewardship system.

Complete Specification

Description:The current disclosure relates to crowdsourced artificial intelligence (AI) and, more specifically, relates to an artificial intelligence-based system and method for determining traffic violations surveillance using robots and objects of visual interest with data obtained from people. More specifically, the present disclosure relates to an artificial intelligence-based system and method for determining traffic violation surveillance.

Background of the invention:

Information that might be helpful in comprehending the current invention is provided in the background description. It is not an admission that any of the information supplied herein is considered previous art or significant to the now claimed invention, nor is it an admission that any publication that is explicitly or indirectly cited is considered prior art.

Parking spots are often in low supply and have a high level of competition for availability. As a direct consequence of this, cities and municipalities often provide provisions for both disabled parking and parking places with meters. Only those who are legally considered to have a disability are permitted to park in disabled spots. The parking meters take coins or dollar bills as payment in exchange for time on the meter. This time on the meter reflects the maximum amount of time that a vehicle is permitted to be parked in a certain area. If the car is still parked in the spot after the timer on the meter has expired, the owner of the vehicle might be issued a penalty, or the vehicle could be towed away. Alternately, in many other sections of the city, the parking garages and parking lots would give a place to park that was either covered or exposed to the air. In certain cases, these garages have many levels in order to accommodate a number of vehicles. In an illustrative example of a subset, the authorities claim the parking lot as an area for the convenience of the public, and they commission or hire parking attendants to facilitate parking for shoppers, show owners, guests, and so on. In residential and commercial establishments, the area inside the driveway or underground/basement levels, as well as the site on the sidewalk immediately next to the

View Application Status

| Application Details | |
|---|---|
| APPLICATION NUMBER | 202241069783 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 03/12/2022 |
| APPLICANT NAME | 1 . Dr. Nagaveni Pommala<br>2 . Dr. Madhu Gudipati<br>3 . Dr. S. Subramanyam<br>4 . Dr. Guru Prasad Muppala<br>5 . Shivashankar R.<br>6 . Dr. L. Nagarajan |
| TITLE OF INVENTION | A Self-Learning and Artificially Intelligent Device and System for Manicure-Pedicure Operations and Method Thereof |
| FIELD OF INVENTION | MECHANICAL ENGINEERING |
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| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 09/12/2022 |

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

सत्यमेव जयते

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

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

| Application Details | |
|---|---|
| APPLICATION NUMBER | 202241073652 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 19/12/2022 |
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| TITLE OF INVENTION | LONG-TERM EDUCATIONAL PRACTICES IN INDIAN CLASSROOM ENGLISH LANGUAGE TRAINING PROGRAMMES |
| FIELD OF INVENTION | COMPUTER SCIENCE |
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| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 30/12/2022 |

| Application Status | |
|---|---|
| APPLICATION STATUS | **Awaiting Request for Examination** |

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

## Patent Search

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|---|---|
| Invention Title | THE INDIAN STOCK MARKETS: AN ANALYSIS OF INVESTORS' FEARS, HOPES, AND CHOICES |
| Publication Number | 49/2022 |
| Publication Date | 09/12/2022 |
| Publication Type | INA |
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| Application Filing Date | 05/12/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06Q0040060000, G06Q0040040000, G09B0019180000, A63F0003000000, G06Q0090000000 |

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Abstract:

THE INDIAN STOCK MARKETS: AN ANALYSIS OF INVESTORS' FEARS, HOPES, AND CHOICES Abstract: The stock market is not the best indication of an economy's health, contrary to popular opinion. Every business type and industry has its own stock exchange. For this reason, they are an excellent way to measure the economic climate as well as the hopes and fears of the people who make growth and wealth possible. There are solid grounds to expect that stock exchanges will remain the primary public and regulated venues for purchasing and selling shares of various firms for the next several centuries. The majority of people believe investing their hard-earned money in the stock market is a poor choice. The primary motivation for this behaviour is a fear of financial loss. Due to a lack of familiarity with the stock market and other financial problems, people are usually concerned about money. If you want to achieve your objectives, you must invest money in them. There is no other way to guarantee yourself a brighter future. Investing achieves more than saving alone. You are setting aside funds for bad times. Regular investing also requires saving aside a particular amount of money each month, which can help you become more financially responsible over time.

Complete Specification

Description:Descriptions

Regarding financial investments, you have numerous possibilities. Before depositing your money somewhere, you should choose what you want and how much you are willing to risk. There are two methods of managing one's finances: active investing and passive investing. When investing actively, you must be willing to make frequent adjustments to your portfolio based on market and economic situations. Active investing requires both time and knowledge, so ensure that you have both before you start. Buying stock in one's own company is the most common method for becoming an active investor. However, you will not need to exert much effort to reap the rewards of passive investment. After deciding where to put your money, you should be prepared to leave it there for an extended term. This approach is sometimes known as "buy and hold." This investment strategy is appropriate for individuals with limited time to devote to money management. In recent years, India's investment practises have changed considerably, most likely due of the COVID-19 pandemic. An increase in retail stock market activity is the major indicator of this change in investing behaviour. The promise of profits greater than the rate of inflation attracts investors to the stock market; nevertheless, individual traders may find it difficult to discriminate between good and bad bets. This is not always the case, however. Herding occurs at various times in distinct global markets. It is a form of wagering in which investors place wagers without completing their own research or weighing alternative choices. Since the initial reports of the COVID-19 outbreak appeared, global stock markets have fallen precipitously owing to uncertainty. 90% of stock market investors invest blindly, and 90% of these investors lose money. Prior to investing, the majority of them do not undertake appropriate research. When deciding which stocks to add to their portfolios on the Indian stock exchange, investors typically seek advice from brokers or close friends. If, on the other hand, you wish to learn how to choose shares to purchase in India so as to continue making money, you have come to the right place. After eliminating

View Application Status

## Patent Search

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| Invention Title | SMART FARM MACHINE USING IOT- MOBILE APPLICATIONS |
| Publication Number | 50/2022 |
| Publication Date | 16/12/2022 |
| Publication Type | INA |
| Application Number | 202241070695 |
| Application Filing Date | 07/12/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMPUTER SCIENCE |
| Classification (IPC) | G06Q0050020000, A01N0025040000, G02B0023240000, G06Q0030000000, C05F0011080000 |

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**Abstract:**

About 50% of the Indian population, agriculture continues to be their primary source of income. Indian agricultural industry accounts for 18% of the country's GDP, making it the most important sector of the Indian economy. With the use of cutting-edge techniques and cutting-edge technology, the government focuses on increasing the GDP of agricultural products. By preserving the ideal circumstances of agricultural growth, all emerging technologies could assist in raising crop yields. The proposed solution makes use of a mobile application to control agricultural machinery with the help of the internet of things. Automated machinery makes sure that the tasks are completed without the necessity for human input.

Complete Specification

Description:[001] Mobile application to control agricultural machinery with the help of the internet of things.
[002] Automated machinery that complete the tasks without the necessity for human input
[003 The microprocessor used in the system was programmed with the capability to guarantee that every process necessary for plant growth is carried out precisely.
BACKGROUND OF THE INVENTION
[004] The recent technological developments affect practically every aspect of life and a greater variety of applications including smartphones, smart cars, and smart components needed. In the fact that technology has advanced significantly in a wide range of industries, the farmers in India are still hesitant to implement new technologies because of the high costs involved and the difficulty in implementing and maintaining them. As a result, the Indian agricultural sector is still unaffected.
[005] Even though agriculture accounts for only 18% of India's GDP, it remains the country's most important economic sector. In India, it is the provider of the majority of jobs. Due to the farmers' ignorance of the technology that could assist their farming fields and their purposes, the employment of advanced technologies in agriculture is still in its infancy.
[006] The evolution of cell phones and the most current advancements in information and communication technologies have significantly changed the range of applications. In recent years, it has been used in agriculture to monitor crop production and soil moisture. The current agricultural system uses a mobile application to give farmers information about crop growth and soil moisture, but it still needs people to water the fields and take care of the crops.
[007] To introduce automation into the farming, cultivation, and irrigation processes. The proposed system intends to create automated farming, irrigation, and cultivating equipment for agricultural fields by utilizing the Internet of Things

View Application Status

## Patent Search

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| Invention Title | MULTIPURPOSE POTABLE AGRICULTURAL CULTIVATOR |
| Publication Number | 44/2022 |
| Publication Date | 04/11/2022 |
| Publication Type | INA |
| Application Number | 202241062414 |
| Application Filing Date | 01/11/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04N0021422000, A01G0009140000, H04N0021410000, G06Q0030000000, G16B0015000000 |

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Abstract:

To design a Novel multipurpose portable Agricultural cultivator along with rota-vector, land lever and harrow disk which could save time and money for the formers. The proposed design is well suited for all kinds of crop cultivation. All the individual components proposed in the design were verified through CATIA software. The minimum requirements such as motor power strength of the blade etc., has been proposed. Flexibility is provided to change any of the components in the design with less cost and man power.

Complete Specification

Description:[001] A novel Multipurpose Portable agricultural cultivator was designed to save the time and energy for farming.
[002] By using this cultivator, at a time the weed plants will removed and those will cut in to small pieces after that that it will properly mixed into soil.
[003] Land leveller arranges the soil in to required height for irrigation and the harrow disc will support the crop plants from entire process and avoids the disturbance and make proper channel to irrigation.
BACKGROUND OF THE INVENTION
[004] Agriculture is a back bone of Indian economy. Since after independence several five year plan has been implemented on development of agricultural activities in India. Industrial evaluation has made agricultural activities simpler when compare to earlier days.
[005] With the involvement of farm machines, the man power has been considerably reduced. Year by year the agricultural production rate increases with the demand in man power.
[006]Several automatic and semi-automatic agricultural tools are available in the market and it is most specific to do a job. The multipurpose agricultural machines are being demand in the recent market to overcome some of the issues like maintenance, cost, space utilization etc.
[007] Some farm machinery companies has introduce the multipurpose tool for agriculture sector but the cost is associated is found to be high. Also integration of the available agriculture tools has become practically impossible with the existing design.
[008] The development of new models that can build with existing one will highly attract the customers. Providing the farm machinery tools with low budget is always a challenging task for the farm machine manufacturers. However proposals and design for integrating with the old machine tools is necessary in the reduction of cost

View Application Status

# Patent Search

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| Invention Title | IMPROVED INTRUSION DETECTION SYSTEM USING GENETIC-FUZZY SEARCH FEATURE |
| Publication Number | 30/2022 |
| Publication Date | 29/07/2022 |
| Publication Type | INA |
| Application Number | 202241041384 |
| Application Filing Date | 19/07/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | COMMUNICATION |
| Classification (IPC) | H04L0029060000, G06F0021550000, G08B0013160000, G06F0021560000, G08B0013196000 |

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Abstract:

Anonymity and access to information for their reliable clients are protected through the security procedures of computer systems and networks. Nevertheless, several malware clients look for weaknesses in these schemes to get entry without authorization or to degrade the level of customer service. To track the network and send notifications every time a suspicious event has been discovered, intrusion prevention systems have been developed. The best intrusion detection systems are those that identify attacks with high aggressive prediction performance and some false alarms. Cyber threats, in turn, have a broad range of characteristics, making it difficult for the basic quantitative methodology to accurately identify crimes. This suggests that strong and accurate intrusion detection systems have been implemented using data mining algorithms, particularly those based on computational intelligence. In this research, they discuss building such a computer using fuzzy genetic networks in a dual learning setting. This method has two benefits: first, the use of fuzzy sets, particularly language tags, allows for a smoother transition between conceptions and a greater level of understanding of the test set. Second, the divide-and-conquer learning approach, in which they compare every conceivable combination of categories with goals, increases the precision for the infrequent assault occurrences since it can more clearly distinguish between "everyday activities" or different threat kinds.

Complete Specification

Description:[001] A key objective of our approach is to develop an effective usage monitoring tool. As a result, they should seek to enhance overall assault detection performance, but also on boosting particular prediction performance so that alternative actions could be taken depending on the level of assault identified. Our approach, as expected, should have a low false alarm rate. For all categories of IDS emissions, these restrictions may be reported as achieving the highest and most consistent reliability.

[002] an appropriate experimental approach was used to examine the effectiveness of the results for that suggestion. Comparative methods have been selected among the most modern SFP methods for IDS. To enhance fuzzy classification models, we used a multi-objective fuzzy model, three designed alternative GFS methods and a scalable strategy.

[003] C4.5 was also added as an evaluation reference model. According to the guidelines for studies in this field, the KDDCUP'99 was chosen as a composite data set. In addition, multiple performance measures were used to assess the strength of our idea from different perspectives.

BACKGROUND OF THE INVENTION

[004] As a result of the enormous proliferation of computer systems and the rapid development of hacking tools or penetration events, data storage has become sensitive. As technology evolves, these attacks make the network infrastructure extremely vulnerable, prompting the introduction of intrusion detection systems to counter these hazards. To prevent malware attacks and network vulnerabilities, an intrusion detection system was deployed. The two types of intrusion detection systems are a) fault identification and b) abuse identification. Anomaly detection involves the system creating a profile of what might be called regular or planned usage patterns over time and triggering warnings whenever anything differs from this sequence. Misuse detection is a method to detect attacks that have a signature or sequence. Error detection has a

View Application Status

## Patent Search

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| Invention Title | ENHANCED HEAT TRANSFER PERFORMANCE OF HYBRID NANOFLUIDS |
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Abstract:

[08] The objective of the present work is to analyze the convective boiling of nanofluids and its application in refrigeration systems. For this purpose, prediction models of thermal properties, pressure loss, CTC - Convection Heat Transfer Coefficient of nanofluids were researched. With the models, the thermal properties (thermal conductivity, dynamic viscosity, heat and specific mass), pressure loss and CTC of nanofluids were predicted for a flow through a smooth horizontal tube under different conditions. A combination of nanopworks with halogenated coolants was used for the composition of nanofluids. It was found that the addition of nanopworks to the base fluid generally causes increases in thermal conductivity. This increase in thermal conductivity increases the CTC thus improving the performance of refrigeration systems. The trend of increase in CTC is also verified through experimental results available in the literature. The metallic oxide nanopworks, because they have a lower specific mass, cause a smaller increase in pressure loss in relation to the metallic ones, being for this reason more suitable for application in refrigeration systems. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4]

Complete Specification

Description:The present invention relates to analyze the convective boiling of nanofluids and its application in refrigeration systems.

[02] BACKGROUND OF THE INVENTION

The subject of this work is to theoretically evaluate the influence of convective boiling of nanofluids in vapor compression refrigeration systems. The relevance of the topic is based on the fact that vapor compression refrigeration systems are responsible for 15% of all electrical energy consumed worldwide, which corresponds to 4.5% of the total emitted gases related to the greenhouse effect. According to the survey, buildings are responsible for 50% of electrical consumption, and the air conditioning systems are the ones that weigh the most. For these reasons, studies aimed at improving the energy efficiency of air conditioning and refrigeration equipment, operating according to the vapor compression refrigeration cycle, is a topic of great interest among scholars in the field of refrigeration that has been widely studied the reader's initial contact with the text, therefore, must be clear, objective and synthetic. It briefly deals with the nature of the subject, objectives, limitations, methods and results of the work presented. In this sense, one of the alternatives to increase performance and reduce energy consumption in refrigeration systems may be the use of refrigerant fluids with nanopworks called nanofluids.

Nanofluids, also called nanorefrigerants, are dispersions of solid pworks on a nanometer scale (1 to 100 nm) in common fluids called base fluids. The dispersion is prepared through special physical or chemical processes. Nanofluids are produced via the one-step method (The pworks are produced and simultaneously dispersed in the base fluid through a chemical process) or two-step method (The pworks are produced and subsequently spent in the base fluid through a physical process).

The main types of pworks are: stable metals (gold, silver, copper, etc.), metallic oxides (alumina, copper oxide, titanium oxide, etc.), carbon in various forms (graphite, diamond, carbon nanotubes, etc.) and ceramic oxides (silicon oxide). In turn, the main base fluids used are: water, ethylene glycol and refrigerants as shown in FIG 1.

View Application Status

## Patent Search

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| Invention Title | NON-DOMINATED SORTING ALGORITHM FOR THE EFFICIENT MULTI-OBJECTIVE ROUTING PROBLEMS IN WIRELESS SENSOR NETWORKS |
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**Abstract:**

Wireless sensor networks are basically composed of a set of nodes and a Sink device. These sensors have as main functions to perform the sensing, transmission and reception of data, and normally have limited energy capacity. For this reason, it is necessary to optimize different objectives, such as energy expenditure, data delivery reliability and network delay. Because these objectives are conflicting, the approach through multi-objective optimization becomes fairer and more realistic. This work proposes the solution of the problem developed by De Paulo (2017) through the evolutionary algorithm NSGA-II to find efficient solutions with low computational time and, consequently, allowing problem solving in large-scale scenarios. Therefore, in this work the adaptation of the evolutionary algorithm to the multi-objective routing (MOR) in WSNs is presented, as well as the representation of the individuals (solution), the description of the initialization population (initial solutions), selection, crossing and mutation operators and correction algorithms introduced in this work.

Complete Specification

The present invention relates to propose the solution of the problem through an evolutionary approach using the Elitist Non-dominated Sorting Genetic Algorithm II (NSGA-II) method). Therefore, in this work the adaptation of the evolutionary algorithm to the multi-objective routing (MOR) in WSNs is presented, as well as the representation of the individuals (solution), the description of the initialization population (initial solutions), selection, crossing and mutation operators and correction algorithms introduced in this work.

[02] BACKGROUND OF THE INVENTION

Wireless Sensor Networks (WSNs) consist of a set of multifunctional devices known to sensor nodes that are low cost and of limited energy reserve, which are interconnected by wireless communication technologies such as radio frequency, infrared and ultrasound. In the WSNs, all data (information) collected by these sensors are forwarded to a centralized node called Sink. Sink has capabilities superior to those of the sensors that make up the network, among them, greater processing, storage and energy reserve. The sensors can be arranged randomly or not, depending on the application, in a field of interest, being widely used in monitoring and surveillance tasks, capable of detecting a wide variety of environmental conditions. , such as: temperature, humidity, presence or absence of certain types of objects. The use of WSNs are diverse, such as in the environment in monitoring fires, water quality, identifying wild animals and controlling deforestation; applications in the concept of smart cities such as monitoring traffic, emission of polluting gases and noise levels. A sensor node is a device essentially constituted by four fundamental components: a sensing unit that collects data from the monitored environment; a communication unit that allows data transmission to other sensors; a CPU (Central Processing Unit) for processing; and a source of energy such as batteries. All sensor nodes must be able to communicate directly or indirectly with Sink so that it is possible to send the information obtained to the user. In cases where direct transmission between a specific sensor node and the Sink is not possible, in order for the information to be effectively forwarded to the Sink

View Application Status

## Patent Search

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| Invention Title | IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method |
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**Abstract:**

IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method Abstract: An ambulance or fire truck can avoid a lot of traffic and arrive at its destination on time, saving lives, thanks to this new method of dealing with the situation. The Internet of Things foundation is a critical aspect of this system's design. The cloud is at its heart. The proposed system will track the location of the vehicle in real time and send it to the cloud. Furthermore, smart traffic lights located along the vehicle's route are aware of its location. The trip to the hospital will be safer because the system will track emergency vehicles and allow them to bypass traffic with little to no delay.

Complete Specification

Claims:CLAIMS

1. IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method state By employing this technique, designers can accurately depict the characteristics of Emergency Vehicles and Public Transit.

2. IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method states of claim 1, wherein said it is a new intelligent system.

3. IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method states of claim 1, wherein said Traffic signals can be used to make life-saving decisions with the help of a smart microcontroller and information about the cars on the road.

4. IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method states of claim 1, wherein said that in this paper, we analyzed and discussed various aspects.

5. IoT, Cloud, AI Based Signal Prioritization for Emergency Vehicles and Public Transit using image processing method states of claim 1, wherein said that in recent years

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