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CRITERIA 3

3.4.3 - Patents published/awarded

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Patent Search

Invention Title	LATEX HARVESTING DEVICE FOR RUBBER TREES AVOIDING LATEX SPILLAGE AND ENSURING HIGHER YIELD
Publication Number	19/2017
Publication Date	12/05/2017
Publication Type	INA
Application Number	201721013202
Application Filing Date	13/04/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	AGRICULTURE ENGINEERING
Classification (IPC)	A01G23/12, A01G23/10

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Abstract:

This patent deals on a device Latex Harvesting Device, the problem faced by the rubber farmers on latex harvesting is solved through this device. The limited man power available, latex spillages, notification of latex after tapping to a rubber tree are solved through this device. The Latex Harvesting device is equipped with a pressure sensor, microcomputer, transceiver device and power harvesting device. The latex collecting cup is mounted over the device. The cup on filling exerts pressure on the pressure sensor. The pressure sensor connected with the microcomputer computes the pressure and calculates the amount of latex filled, once the cup is filled the transceiver tran the data to the Latex Collection Centre (LCC). The LCC maintains the data base on all trees and their yield. The LCC assists the farmer to collect the latex in a shortest path. LCC also notifies the farmer about the absence of latex in the tree recently cut for tapping the latex. The necessary energy for the latex harvesting unit is supplied through micro wind turbine. The micro wind turbine rotates and provides voltage, the micro wind turbine connected to a voltage regulator. The voltage regulator, regulates the pul dc produced to constant DC and charges the battery. The battery acts as a buffer and serves the Latex Harvesting Device.

Complete Specification

Claims:Claims
a) We claim that the latex harvesting device provides automation in latex collection process.
b) We claim that the latex harvesting device manages the latex harvesting process providing information(amount of latex produced by each tree).
c) We claim that the latex harvesting device provides easy latex collection providing shortest route to farmer in collecting latex and tapping the rubber tree. ,
Description:Latex harvesting device for Rubber trees avoiding latex spillage and ensuring higher yield
Abstract

This patent deals on a device Latex Harvesting Device, the problem faced by the rubber farmers on latex harvesting is solved through this device. The limited man power available, latex spillages, notification of latex after tapping to a rubber tree are solved through this device. The Latex Harvesting device is equipped with a pressur sensor, microcomputer, transceiver device and power harvesting device. The latex collecting cup is mounted over the device. The cup on filling exerts pressure on the pressure sensor. The pressure sensor connected with the microcomputer computes the pressure and calculates the amount of latex filled, once the cup is filled the transceiver transmits the data to the Latex Collection Centre (LCC). The LCC maintains the data base on all trees and their yield. The LCC assists the farmer to collect the latex in a shortest path. The LCC also notifies the farmer about the absence of latex in the tree recently cut for tapping the latex. The necessary energy for the latex harvesting unit is supplied through the micro wind turbine. The micro wind turbine rotates and provides voltage, the micro wind turbine connected to a voltage regulatc The voltage regulator, regulates the pulsating dc produced to constant DC and charges the battery. The battery acts as a buffer and serves the Latex Harvesting Device.
Technical field - Internet of Things (IoT), Agriculture, Wireless communication

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Patent Search

Invention Title	SYSTEM OF DETECTION OF NPK DEFICIENCY IN SOIL AND FERTILIZER INDICATION USING INTERNET OF THINGS
Publication Number	41/2017
Publication Date	13/10/2017
Publication Type	INA
Application Number	201741035239
Application Filing Date	05/10/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	AGRICULTURE ENGINEERING
Classification (IPC)	G01N33/24

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Abstract:

ABSTRACT System for Detection of NPK Deficiency in Soil and Fertilizer Indication using Internet of Things Soil Nutrients are rarely analyzed by the farmers since the samp should be taken to lab for analysis before planting. Agriculture being the backbone of the Indian economy, the issue of ease methodology to analyze soil nutrients still exis invention of NPK (Nitrogen-Phosphorus-Potassium) sensor is used to automate the detection of nutrients level in soil, stands as a part of solution for farmers to provide h in their farms. The sensor was developed based on multidisciplinary areas under the colorimetrical principle, chemical reaction, electronic and physics law. The output of L (light dependent resistor) in the NPK sensor circuit is analyzed to determine the fertilizer to be used to overcome the nutrients deficiency in the soil based on fuzzy. This is to develop an automatic soil nutrients monitoring and fertilizer indication system at regular intervals of time.

Complete Specification

System for Detection of NPK Deficiency in Soil and Fertilizer Indication using Internet of Things
TECHNICAL FIELD
food' raOVationdisic,os^ ^ the field of sustainable agriculture which leads to production of food, fiber or antmal products using Internet of things (IOT) technology
BACKGROUND
UnTrt5 infai9r'CU^Ure are increasin9 d^ by day that even affects the life of Farmers
Unfortunately between 1995 and 2014, 2,96,438 farmers have committed suiddehTTa
due to inab.lity 0f high cultivation in their fie|ds The recent .J^^he ^
fo uUs toTn? ° r6fl:t ^ "^ 39riCUltUre CrlSiS Pi*^° ,ndia" Th- -usesaconcern o us to solve one of the major issues faced by the farmers. It was analyzed that Z ill-teracy amo the farmer community was one of the obstacles for their success in hqh
cCmZ a' m°nit0rin9 °f ^ nUtri6ntS WaS COmpliCated' eXpenSiVS a^-P-
Soil is a humble substance. Food of all living beings such as grains, vegetables and fruits are grown ,n so.l. Meat production also depends on grazing or on plant based fe from
iTtiizz zTh:significance of soii mtrients in crop pr°ducti- -** %£££z
b.oloo Tot, Th 7HV °Ur StUdV inV0'Ved ln understandi"9 ^e comp,ex chemistry and
in 3 ^ IT Hn9 P.0 nt f°r feSearCherS " t0 establish the basic chemi<^ P^sent in soil It was observed and premeditated that soil acidity has to be measured and the

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Patent Search

Invention Title	PERVASIVE SMART POSTURE RECOGNITION SYSTEM USING NEURAL FUZZY APPROACH
Publication Number	33/2017
Publication Date	18/08/2017
Publication Type	INA
Application Number	201741027688
Application Filing Date	03/08/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	G01C21/16

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Abstract:

This patent deals with recognizing the posture of the individual in a closed environment using machine intelligence. The Accelerometeris connected with a computing devi which is programmed with neural and fuzzy system to identify the posture of the individual. The neural system trains itself over a period of time to obtain the knowledge a the individual's behavior and corrects the input accordingly. The automata model is designed to predict the next posture and the neural network is trainedcorrespondingly system is realized as an embedded IoT device.The proposed Smart posture recognition device is tested in real time for its novel working. This device provides knowledge d for smart environment and helps in providing sophisticated environment for the post surgical and elderly people. The Pervasive Smart Posture Recognition system helps i monitoring the elderly and the post surgical patients and also helps in preserving their privacy. Technical field - Internet of Things (IoT), Smart Environment, Neural Netwo Fuzzy Logic System, Machine intelligence.

Complete Specification

Claims:a) We claim that the Pervasive Smart Posture Recognition system device recognizes the postures of the elderly and post surgical people effectively.
b) We claim that thePervasive Smart Posture Recognition system device also serves the knowledge base of the smart environment.
c) We claim that with the help of the Pervasive Smart Posture Recognition system we can improve the sophistication and care to the elderly and post surgical people.

, Description:The Pervasive Smart Posture Recognitionsystem is equipped with an accelerometer, a micro computer and Bluetooth transceiver. The accelerometer sense position of the subject and determines the position based on the automata model. The common postures like sitting, standing, walking, bending, falling, sleeping, etc., a monitored through thissystem. First, the module enters the learning phase, in which it learns the value of x,y and z based on the postures. Then the condition of transit the finite automata is recorded by the micro computer. When there is a drastic change in the accelerometer reading, the device moves to the next state. The data is give the neural network that trains and provides the crisp data set to the user. The fuzzy logic exactly determines the posture of the subject. Figure 5 illustrates the real time implementation of the device that is developed.

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Patent Search

Invention Title	POWER GENERATION USING FRUSTUM SHAPED SOLAR PANEL MOUNTED ON VERTICAL WIND TURBINE
Publication Number	21/2018
Publication Date	25/05/2018
Publication Type	INA
Application Number	201741037861
Application Filing Date	26/10/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	F03D 9/00

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Abstract:

This Utility deals about generation of electricity from Frustum shaped solar panel mounted on vertical axis wind turbine to generate power without polluting the environm to decrease the space requirement. In parallel to developing technology, demand for more energy makes us seek new energy sources. The most important application fiel research is Power generation using renewable energy resources (solar and wind energy). Batteries in the system are charged by both wind power via DC generator and sol power. Basically this system involves the integration of two energy sources to obtain continuous power at affordable cost. The output of solar panel is worst affected by increasing operating temperature due to absorption of thermal radiation. So, in order to increase thermal efficiency we have introduced Wind turbine to cool the panel. Th away the heat from the solar panel and improves efficiency of the solar panel.

Complete Specification

The Utility deals with Power Generation using Grid free Hybrid System. Energy system which is Fabricated or designed to extract power by using two energy sources is ca as the hybrid energy system. Hybrid energy system has good reliability, efficiency, less emission, and lower cost.
Major components used in the setup are: Major components used in the setup are: S Frustum shaped Solar Panel -(1) / Vertical Axis Wind Turbine -(2) S DC Generator-(Battery-(4)

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Patent Search

Invention Title	A MULTI MODE PORTABLE POWER BANK WITH FLEXIBLE SOLAR PANEL
Publication Number	48/2017
Publication Date	01/12/2017
Publication Type	INA
Application Number	201741041946
Application Filing Date	23/11/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02J7/00

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Abstract:

Abstract A multi-mode mobile charging power bank which is used to charge batteries with various current charge levels at different speeds is developed. A touch simulate interface placed on the surface of the power bank is used to understand the charging details of the connected electronic device. A flexible solar panel is used for automati charging the power bank and is rolled to be placed along with the power bank in a safe plastic case.

Complete Specification

FIELD OF THE INVENTION

The present invention relates to a portable power bank with a unique LED interface, and more particularly to a multi-mode portable power bank that is conveniently use without any ac supply as it is supported by a flexible solar panel.

BACKGROUND OF THE INVENTION

The invention pertains generally to a mobile charging power bank. Portable power banks are comprised of a special battery in a special case with a special circuit to cont the power flow. They allow us to store electrical energy (deposit it in the bank) and then later use it to charge a battery of an electronic device (withdraw it from the bank) Power banks have become immensely popular as the battery life our beloved phones, tablets and portable media players are outstripped by the amount of time we spe using them every day. By keeping a battery backup close by, we can top-up our device(s) while far from a wall outlet.

Most commonly, a power bank will have a dedicated input socket for receiving power. This power can be derived from a USB socket on a computer, but may charge faste we are using a wall socket adapter. We most often see power banks using a mini or micro USB for charging, and full sized USB sockets for discharging. On very rare occasions, power banks can use the same socket for input and output, but this is rare and should not be assumed of any power bank, as trying to force power into a pow bank can damage the battery. Depending on the capacity of the power bank and its current charge level, it can take quite a while to fill up. For larger banks, the time take for charging is also greatly increased.

Most power banks have an LED indicator to show when they are at capacity and a safety cut-off to avoid overcharging and overheating. Ambient temperature and power flow are also expected to have an impact on the charging times

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Patent Search

Invention Title	H2 BUDDY - SMART PERSONAL SAFETY AND SECURITY ASSISTANCE SYSTEM
Publication Number	50/2017
Publication Date	15/12/2017
Publication Type	INA
Application Number	201741043540
Application Filing Date	05/12/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G08B21/02

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Abstract:

In. this current era of technology, Mobile phone is one of the primary devices that almost everyone likes and uses to keep in touch with family and friends. Safety and Security is very essential when the person is in emergency situation where he/she can"t attempt phone calls or messages manually so that the receiver can trace out the location by using coordinates. "H2 Buddy" system notifies the police helpline and emergency contact number regarding crisis by tracing the exact coordinates of the location using Global Navigation Satellite System (GNSS) and captures video and audio which will be uploaded to the cloud for verification even without network connection (Mesh Network). "H2 Buddy" has been configured to accept all relevant information in case of an emergency such as person to contact number, police number, etc. The system works in such a way that when the lock button in the mobile phone is clicked thrice, (in case person couldn"t open it) the system will get the coordinates of the location (forcing the GNSS to be turned on), opens the camera, records the video of wherever the phone"s camera is pointed and also it records audio to verify what"s happening on that situation, and transmits to the cloud. The data shall be used for future investigation purposes. The coordinates and emergency help message can be sent automatically to the police help line and emergency contact numbers. In addition, the inbuilt accelerometer sensor in the mobile phone sends the Emergency Broadcast, in case the victim couldn"t access the phone (Intelligent Sensing).

Complete Specification

TECHNICAL FIELD
The invention relates to the field of safety and emergency alert systems. In specific, it relates to a personal location tracking, recording and providing emergency alerts by pressing the lock button thrice in case he / she couldn't switch on the mobile and use the emergency system. It sends notifications about coordinates of the location (using GNSS) to police helpline and emergency contact numbers even without network connection (using Mesh Network). The intrinsic accelerometer sensor in the mobile phone, monitor the situations and it will activate the system and sends the Emergency Broadcast, in case the user couldn't access the mobile phone (Intelligent Sensing).
BACKGROUND
An individual's safety is always one of the top priorities. About 53% of Incidents of Cognizable Crimes (Robbery, Burglary, Murder, Thefts, Riots) have been reported by National Crime Records Bureau (NCBR), Government of India. Similarly, WOMEN - a domestic and social partner of Indian society, are becoming the most vulnerable section as far as their safety and security is concerned. The sexual offences cases included rape; attempt to commit rape, assault on women with intent to outrage her modesty and insult to modesty of women. In recent times, nearly 3.27 lakh cases of crimes against women were reported across the country. Of these, over 1.3 lakh were sexual offences-1.2 lakh in states and 9,445 in union territories.
Day by day, crime rates are increasing. In addition to cognizable crimes and sexual offences, children, elderly people and mentally challenged people are becoming victims in most of the cases. Emergency scenario occurs generally when an individual is alone or far away from their neighborhood. Habitually it is observed that during such emergencies, people try to connect to their family members or police force etc. Currently, the calls made by the victim to emergency numbers are confined to concerned departments / organizations which include police, municipal bodies, etc. which may take about 10 minutes to one hour to reach the exact location for providing assistance

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Patent Search

Invention Title	METHOD TO IDENTIFY REGULAR VISITOR BY PREDEFINED DOOR KNOCKING PATTERN
Publication Number	50/2017
Publication Date	15/12/2017
Publication Type	INA
Application Number	201741043746
Application Filing Date	06/12/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G06K9/00

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Abstract:

ABSTRACT A method to identify and notify the resident before they open the door when stranger or regular visitor knocks the door. It is a device with vibration measuring 1.1 (a), 1.2(a), 1.2(b), 1.2 (c) like accelerometer to sense vibration when someone knocks the door. The visitor can be identified by playing assigned tone from speaker 1.5 w regular visitor knocks the door in predefined door knocking pattern . The knocking pattern can be changed by the resident by interchanging the vibration measuring sensc the knocking place can also changed by placing sensor at different location in the door. The door bell can be easily accessed by children and person with height less than 1 by knocking the door at 1.1 short stranger zone.

Complete Specification

METHOD TO IDENTIFY REGULAR VISITOR BY PREDEFINED DOOR
KNOCKING PATTERN
FIELD OF INVENTION
The present invention related to the field door bell to identify and play desired tone to the resident before they open the door when someone knocks the door and more particularly to identify a regular visitor to the resident by playing assigned tone for different knocking door pattern by the regular visitor. BACKGROUND OF INVENTION CN201974888U knocking type door bell related to this invention in which the door bell will triggered when someone knocks the door . In this invention we can't able to differentiate stranger and the regular visitor.

CN102999981A Button-free electronic doorbell responder using speech recognition technology This invention provides a button-free electronic doorbell responder using speech recognition technologv. The responder informs interviewees thai visitors come in a flicking mode through an indicator light when receiving calling messages of ar electronic doorbell ringer, the interviewees inform the responder of response messages to visitors in a flicking process of a responder indicator light with voices, a speec recognition circuit of the responder converts voices of the interviewees into electric signals, and the responder sends the response messages to the electronic doorbell ringer through a wireless communication mode.
U.S. Pat. No. 6,919,918 relates to an electronic digital door with two plates. It comprising a digitalization , recording, data sequencing, and controlling functions of the doc to open or close with mobile, remote computer or the like

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Department of Industrial Policy and Promotion
Government of India

Page last updated on: 26/06/2019

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Patent Search

Invention Title	"DRONE GROVE" - A SMART COPTER FOR CLEANING RAILWAY TRACK
Publication Number	52/2018
Publication Date	28/12/2018
Publication Type	INA
Application Number	201741044330
Application Filing Date	11/12/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	E01H8/00

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Abstract:

India has the 2nd largest railway system, the wastage in the rail tracks are arduous to clean manually. Using the drones with a single man control and also with the sensor for each station will be more proficient. Technically it will be results in less cost efficient. With the usage of drones which is a more accessible tool that could eventually be the hands of a human to clean up the entire mess in a railway station. Manually controlled drones must be made to clean the railway tracks for once in every estimated hc Drone will we embedded with a powerful suction motor which is strapped to an air bag on the other side. It will have a frequently chargeable battery, or a solar cell which used to charge the drone periodically. In without human intervention, the idea will be make use of a Line Follower sensor to trace the rail tracks. The line follower sensor is embedded with drones as a result it will follow the rail tracks and does not get out of the tracks. Open CV (Open Source) is a computer vision and a freeware that is used ir processing. It is installed in host, it is programmed to identify obstacles in track using camera attached to drone.Since the railway tracks are fully magnetized, metal conter be reduced to the maximum to avuid the magnetism. By this way, the railway tracks will cleaned up by using the drones efficiently, which will lead to less man power too.

Complete Specification

BRIEF DESCRIPTION

Our idea is to clean up the mess in the tracks with a smart Quadcopter and a rover which is an auto controlled Gadget.It offers the conquest of physical space, the extension society's compass, and the ability to be anywhere.Our drone is made to fly above the rail tracks in the beginning of the day and at the end of the day .On an average , the pay of an Railway track cleaner is more than 5 OK annually . Comparatively our drone is more cost efficient and their maintenance is also that complex. Sin Rail roads are magnetised ,a metallically designed copter cannot go closer to it as it will get attracted to the railroads . To overcome this main disadvantage our idea is to built the copter in Ferrite metal which does not affected my magnetic property. To built an Unmanned aerial cleaner for railways of India Our Team have used Arduino , Flight Controller Sensor to measure

, the planes altitude, GPS module to position the copter in its axis , Tilt Sensor to measure the multiple axes of reference plane to ~~TeaciTHeTilting positions , etc., ""

The rover is made with 4 powerful rpm motors and a brush in front of it. When the rover moves it pulls all the waste items in front of it .Once when the bag is full it sends message to the command centre.It will be designed to pull plastic cups , paper bags, paper cups etc,. It also includes an ultra sonic sensor to prevent the sensor from dashing on any other objects and to assure it does not cause any injury to Human being . Considering the each> rails as a single line it can also be programmed to follow the tracks using a Line Follower Sensor to complete one vertical half of the track and the same on the other half. It also has a spraying motor at the back which sprays a sanitary lotion wherever it moves and thus it avoids foul smell from the tracks.

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Patent Search

Invention Title	POLYCHROMATIC LIGHT EMITTING DIODES WITH VACILLATING WATTAGE AND AUTOMATED SMART LAMP
Publication Number	01/2018
Publication Date	05/01/2018
Publication Type	INA
Application Number	201741046303
Application Filing Date	22/12/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G09G3/14, A61B6/00, H05B33/08

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Abstract:

ABSTRACT Polychromatic Light Emitting Diodes with vacillating wattage and automated smart Lamp At present people use lamps of specific ratings but the light intensity r the same irrespective of consumer"s need. Despite environment and timings, light intensity remains the same. The proposed system has multiple wattage provision in a s lamp. Starting from low to high wattage the user has options to switch between the wattages based on their need and day light conditions. Unnecessary constant light out avoided and therefore energy can be saved hence the wattage is flexible through this operation. The colours of light play an important role in changing state of mind. The proposed system also has provisions to change the colour of the lamp. This is achieved Indifferent colours of LEDs in the system. Wireless technique is employed to contro functions of the system remotely. For payback, the system is profitable for the user because of the energy conserved by the system.

Complete Specification

Polychromatic Light Emitting Diodes with Vacillating Wattage and Automated Smart Lamp

TECHNICAL FIELD

Electrical system: Polychromatic LED lamp that can fit into any normal lamp holder and switch between different wattages and colours respective to user's demand.

BACKGROUND

As India is moving towards smart city and digitization it is the uimosi responsibility of engineers to reduce the power consumption using state of the art technologies. During construction of buildings electrical engineers provide separate holders for different lighting purposes e.g. 5WS 10W, etc. In a room electrician will employ 3 or 4 provisions for holders which affect the aesthetics. In the proposed system single holder is adequate, since switching of wattages is possible. In this stressful life lighting colours also play a major role in kindling people's thought process. White light lamp might irritate people at times and they look for different colours based on their moo In the proposed system switching of white light to colours is possible. This system is economical while considering the payback period.

SINGLE SOURCE LED BULB -(Application Number 20172101X342). The single source LED Bulb project is a LED Bulb operating on 12V DC Supply with different wattages ar ratings. It contains Aluminium Heat sink with Aluminum coated body. Light transparent shell. Power Receiving Base, (12V) LED Component. The (12V) LED component wil get fitted on the Aluminium Heat sink with use of screws and DC wires. Components are electrically connected

with power receiving base and transparent shell fitted on it and this bulb can operate with use of bulb holder with providing of two positive and negative clips.

LED DIMMER CIRCUIT AND METHOD - (Application Number 201747012727) The invention disclosed herein is a LED dimmer which can be connected between a basic LED

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Patent Search

Invention Title	TECHNIQUE TO ESCALATE CONDUCTIVE AND CONVECTIVE HEAT TRANSFER RATE IN CONCRETE INSULATED SOLAR STILL
Publication Number	01/2018
Publication Date	05/01/2018
Publication Type	INA
Application Number	201741046192
Application Filing Date	22/12/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	C02F1/14

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Abstract:

A pyramid shape glass concrete insulated solar still includes a glass pieces connected with aluminium scrap in the bottom and side wall portions of the system. The solar s situated to receive solar energy passing through the glass cover and strikes on glass pieces-aluminium scraps in order to quicken the vaporization. The productivity of the enhanced by conducting heat from glass pieces to aluminium scraps and also transmitting solar energy through glass pieces into the still. One or mere glass pieces - alum scraps are also provided to enhance the evaporation rate of saline water. The overall heat losses to the surrounding are also reduced by concrete insulation to the still. In embodiment, solar still includes glass pieces with concrete insulation. In further embodiments, connection of glass pieces with aluminium scraps and the methods of heat transfers are disclosed.

Complete Specification

heat sink was used for the process of condensation to the water vapour which is produced from the evaporation. As alleged, the system needs only minimum amount of power to pump the water for the desalination process so thai the operating cost per gallon of fresh water is reduced.

[0004] Further approach to desalinating the water is disclosed in a U.S, Pat, No. 4,343,683 of Diggs. The Diggs patent eliminates contaminants from saline water by flowir contaminated water across a grid and into a storage tank. The saline water is in pre-selected level temperature due to the grid uses of the solar energy. A dome shaped heat transfer structure receives water from the storage tank and is subjected to a pre-selected temperature by using solar energy to a pre-heater. The heated water is exposed to a vacuum through the evaporator so that the temperature of the water is above the saturation temperature. Then the water is vaporized leaving all contaminants. Finally the contaminants are deposited in a plurality of moving belt and are moved to a solid recovery system.

|0005| A more recent approach to solar desalination to provide hot or cold water for irrigation in drinking is disclosed in a U.S, Pat. No. 6.797,124 of Ludwig. In this work the anthracite coal is used as a heat absorbing medium. A greenhouse type roof rest over a gutter that is isolated from a water holding container to prevent the deposit formation and algae growth from reaching the gutter. Bacterial growth is inhabited form the ventilation and the use of titanium-laden magnetite are mixed with the heat absorbing medium. To prevent the contaminants from the outside sources, the gutter is also isolated from the exterior of the unit. The gutter is covered with metal skirt prevent from re-evaporation and condensation flowing towards into it.

[0006] Many researchers have used fins as heat absorbing medium in the solar still basin plate so that the evaporation process is accelerated to improve the productivity The daily output of the fin type solar still is 2.8 kg/m2. A large quantity of pure water is also derived from saline water by integrating fin type solar still with solar pond or other external heat absorbing medium. From this, it is understood that the efficiency of the system is increased when the still is integrated with any heat source medium

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Patent Search

Invention Title	SMART AND AUTOMATIC ELECTRICITY BILL GENERATION SYSTEM USING INTERNET OF THINGS
Publication Number	03/2018
Publication Date	19/01/2018
Publication Type	INA
Application Number	201841000702
Application Filing Date	08/01/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q20/00; G06Q20/042;

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Abstract:

The present disclosure relates to a system of automatic electricity e-bill generation using Internet of Things. In India, Electricity bill generation. system in almost all Electrici boards of various states faces many problems while manually updating the energy conéumption data in customer database. Human error is associated with all the levels generation problem. Error starts from noting down the wfong energy consumption until entering and uploading the wrong data, Even after the replacement of analog ene meters with digital energy meters the problem still exists. To solve these problems a system is designed using Internet of Things. The proposed method continuously rhon energy meter data and upload it into the cloud thereby generating electricity bill online and sending the notifications to the user. Thus, the work associated with electricity labours are reduced, making the bill generation efficient, effective, integrated and automatic.

Complete Specification

Smart and Automatic Electricity Bill Generation System using
Internet of Things
TECHNICAL FIELD
The present disclosure lies in the innovation of an Efficient, Automatic & Integrated Electricity Billing for revenue of power consumption assisting Electricity Board withou human assistance.
BACKGROUND
Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided here is prior art or related to the presently claimed invention, or that any publication particularly or implicitly referenced is prior art.
At present, most of the domestic, industries and commercial electricity consumers in India have the Conventional Analog / Digital energy meters and the billing system is not automated. At regular intervals (two months once), an official from the electricity board visits every consumer end and records the meter reading manually. These meter readings are uploaded in consumer database in person and electricity bill calculation is done instantly were manual error might be associated, and if the consume not available while recording, the energy consumption, bill intimation is impossible. This leads to non-payment of electricity bill. As a consequence, customer visits to electricity board office to pay the bill amount and mostly fail to remember the electricity bill payment. In Electricity Board Conventional technique, requires quite numbe labours for reading the meters. The process of intimating the bills to customer is very laborious, and cumbersome with less accuracy.

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Patent Search

Invention Title	FOLDABLE RC POWERED KITE
Publication Number	03/2018
Publication Date	19/01/2018
Publication Type	INA
Application Number	201841001218
Application Filing Date	11/01/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B64C27/08; B64C39/02

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Abstract:

A Foldable RC powered Kite of an aerial vehicle comprising of wings, elevons and propellers which can be folded and kept inside a portable lightweight box made up aero
carbon fibre. It is powered by a BLDC motor which is mounted at the rear end of the RC kite with foldable propellers. The fuselage of the RC kite contain cavity for the fold
structures and servos. A foldable wing is made up of plurality triangular shape balsa sheets of 1mm thickness joined together by the adhesive tape or plastic hinges which
easily folded manually by locking and unlocking the wing arm 2. At stowed state the maximum size of the RC kite is less than the size of the portable box so it can be easily
inside the box . A wing arm guide and a quick release latch plate which can be used to lock or unlock the foldable structures without any special tools.

Complete Specification

FIELD OF INVENTION

This present invention is related to the field Unmanned Aerial Vehicle (UAV), and more particularly to the foldable structure for easily portable in a container like box or cylinder in which the wings, elevons and propeller are folded BACKGROUND OF INVENTION

US9789950B1 Unmanned aerial vehicle (UAV) with multi-part foldable wings its a canister-launched pyrotechnically actuated folding wing for reliable and irreversible locl of a foldable wing. This foldable wing enable compact storage, cost reduction, ease of deployment and aerodynamic performance.

US8584984B2 Inflatable folding wings for a very high altitude aircraft wherein a hinge between each segment of the foldable wing is slightly offset from the perpendicula Successively positioned wing segments fold over one another. Alternatively, the hinges are substantially perpendicular so that each respective wing segment folds linear against the

next wing segment. An inflatable rib, with inflatable arms, can be inflated to provide a force against two adjacent arms, thereby deploying the wing segments through a f 180° of rotation.

CN104071336B The portable folding wings UAV discloses a portable folding wingUAV, comprising a front wing, horizontal tail fin, V-tail, folding propeller, and the driving member body, the power element portion is mounted to the front of the fuselage, said folding propeller connection the output end of the power member, said front cen wing is attached to the fuselage, the tail end of the flat V-tail and tail attached to the fuselage, the tail end of the front wing peace folding mechanism are connected by a body, to contraction in the ejection and while carrying the wing during flight and in its expanded form

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Patent Search

Invention Title	MILEAGE MONITORING DEVICE FOR VEHICLES
Publication Number	04/2019
Publication Date	25/01/2019
Publication Type	INA
Application Number	201841003225
Application Filing Date	29/01/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	G21C 17/00
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Abstract:

|098J Vehicle monitoring systems are one of the finest researchable areas because vehicles form the day to day part of each person as a companion for travel. Our main innovation is to display the fuel price in daily basis according to customized category and to analyze the past records and predict the future (artificial intelligence) which als reduces the human efforts in data finding process. Our device comprises of following units a processing unit, sensors unit, storage unit, communication unit. In the proces unit 'and sensors unit we have used a few standard sensors and module's"of whtcrT'soirieof them are customized products like a fuel indicator, shaped structure, etc. in communication unit we have implemented intranet data transfer done by using Radio module. In Storage unit cloud computing plays a lead role, but in case of failure of tl devices from unfortunate accident, we are also using offline storage as a temporary solution. One of our aim is to provide a 24/7 connection between the manufacturer ar customer so we used intranet instead of using a direct internet connection. Our devices are a combination-of many individual functions where certain innovative applicati implemented.

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Patent Search

Invention Title	SYSTEM FOR DETECTION OF LEUKEMIA USING HIDDEN MARKOV MODEL AND ADAPTIVE NEURO FUZZY INFERENCE SYSTEM
Publication Number	07/2018
Publication Date	16/02/2018
Publication Type	INA
Application Number	201841004916
Application Filing Date	09/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G16H10/20

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Abstract:

Disease diagnosis is an indispensable task where the human and computer combine to achieve optimal results by stabilizing the knowledge of Healthcare specialist in cor the problems. Cancer is a major cause for human death which badly needs diagnosis at an earlier stage for further better treatments. For that data mining techniques are this work. The various methods such as EICA (Enhanced Independent Component Analysis), GPSO (Geometric Particle Swarm Optimization), AWFCM-BEA (Adaptive Weight Fuzzy Clustering C-Means), HMM ANFIS (Hidden Markov Model -Adaptive Neuro Fuzzy Inference System) are used for classifying the blood samples. Simulation works are out using MATLAB 8.1.

Complete Specification

System for Detection of Leukemia using Hidden Markov Model and Adaptive
Neuro Fuzzy Inference System

TECHNICAL FIELD

Our innovation helps the medical researcher to detect the Leukemia at an earlier stage. Making health care affordable and accessible for all people is one of the key focu areas of the world today. In this direction, an early stage detection of disease is also very important especially for treatment of diseases like cancer, heart problems, etc. One of the most dangerous diseases is Leukemia. In order to avoid the Leukemia death, the medical researcher requires the most identical medical diagnosis method to detect the Leukemia at an early stage. Now a day's microarray technology development leads to predict and diagnosis of cancer cells at an early stage from a very large amount of gene data set.

BACKGROUND

Kai et al. (2010) explained about a cancer classification method such as Discriminant Kernel-PLS, which was used in gene expression profiles. This work used data set like Leukemia, prostate cancer and lung cancer; they were also tested by the use of NIPALS-KPLS method. This method provided more prediction accuracy by using the 1-ANOVA. Manuel et at. (2009) presented method for gene expression profiles cancer classification which was known as Kernel Alignment K-NN. This proposed classifier applied to the cancer identification for most prominent results. On the other hand, the K-NN performance depends upon the distance of the sample used in this work. T work also explained about the Kernel alignment algorithm's linear combination of dissimilarities. This scheme performs well when compared with other metric learning strategies and improved the classical K-NN based on a single dissimilarity

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Patent Search

Invention Title	AUTOMIZED SYSTEM FOR MONITORING USAGE OF TOILETS USING IOT AND DATA ANALYTICS
Publication Number	07/2018
Publication Date	16/02/2018
Publication Type	INA
Application Number	201841004918
Application Filing Date	09/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	A47K13/10

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Abstract:

Usage of public toilets is measured and reported manually by the government"s local body representatives. As per the data available nearly 3.5 crores public toilets have b built to achieve ODF (open defecation free villages). In recent statistical data the toilet usage is 95%. However, the authentication of these data records provided by the loc bodies is Questionable. In order to monitor the usage of these toilets and to avoid open defecation the automatic technology integrated with the sensors can be enabled t monitoring the count the exact usage in each and every locality and these monitored data can be sent to the municipality through loT technology. The main motive of the proposal is to monitor the usage of toilets in order to take immediate steps to promote usage. This can be implemented using sensors which will detect the odour of the g hence according to the data obtained in ppm, we can calculate the count of the persons and hence we can find the usage easily which can be conveyed to the authorities concerned in case of internet connectivity. The information can be conveyed by creating website so that they can view the information directly. In case of lack of places wh there is no internet connectivity, the information about the count can be directly displayed through LCD display.

Complete Specification

TECHNICAL FIELD

Our innovation discloses in the field of sanitation which leads to promotion of usage of public toilets by monitoring the usage using the sensors enabled Internet of thing (IOT) technology .

BACKGROUND

Citizens of India deserve a clean and the hygienic place to live and need to give their best in making it possible. Out of 3788 villages surveyed 13.1% villages are found to have the toilet community out of v/hich nearly 1.7 % of the village has been found have the toilet community but not using them. The rest 82.1 % uses it for washing and defecation purpose.

In urban India for the households having sanitary toilet, the percentage of persons using household/community/public toilet was 98.7%. In rural India, 42.5 % household were found to have access to water for use in toilet. In urban India, 87.9% households were found to have access to water for use in toilets in rural areas; the percentage persons going for open defecation was estimated to be 52.1%. In urban India, the percentage of persons going for open defecation was estimated to be 7.5%. When hun waste (feces) is not managed well, it pollutes water, food, and soil with germs, and leads to diarrhoea and other serious health problems. When people defecate in the o atmosphere.it leads to the cause of many diseases. Using toilets prevents germs from getting inte the environment, and protects the health of the whole community

OBJECTS OF THE INVENTION

An object of the present disclosure is to provide the exact count of the toilet usage object of the present disclosure is to provide an integrated sensor for separate defecation and the urination count

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Patent Search

Invention Title	SELF CLEANING VEHICLE FOR FOOD PROCESSING SILOS USING AIR SUCTION TECHNOLOGY
Publication Number	07/2018
Publication Date	16/02/2018
Publication Type	INA
Application Number	201841004917
Application Filing Date	09/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B60K17/02; B60K17/04

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Abstract:

Self-Cleaning Vehicle for Food Processing Silos using Air Suction Technology Our project involves rocker bogie technology to move around the surface of the silos which is t
major expanse in a common food processing industry. The rocker bogie technology helps the vehicle to switch itself between two adjacent wall surfaces whereas the air su
plays a crucial role in keeping the vehicle glued to the walls and driving it through the walls simultaneously. This invention helps one to clean the surfaces where the reach
human hands is impossible and for the elimination of food contamination in a much effortless way thus not involving water or other cleaning agents. Bringing in the art of
reinforced learning, the machine moulds itself to the dimensions specified and acts accordingly to fulfil the nook and corner cleaning of the silos.There is no nessecity for r
control as it is artificially intelligent.

Complete Specification

Self-Cleaning Vehicle for Food Processing Silos using Air Suction Technology

TECHNICAL FIELD

Food Processing- Our innovation falls under the category of food processing which helps us to eradicate contaminants from the huge silos used in food industries which entail fundamentals of mechanical and also internet of things (IOT) technology.

BACKGROUND

We look forward to create a revolutionary change in the methodology of cleaning in large scale industries by automated artificial intelligence based mobile vehicle. We ai camouflaging the bug into a beetle and it can sense, move, seek, observe, analyze and eradicate contaminants from area where residues are way far from human hands Our project typically targets vulnerable food processing industries which are prone to easy contamination of food. Food processing unit containing large complex machinery is cleaned by vacuums and scrubbers traditionally. However, cleaning the interior surface of pipelines, vessels, filters, process equipment and associated thing without dismantling remains a huge challenge. The side walls restrict air inflow potential, chimney/stack affect the natural ventilation, serious challenges are being faced while cleaning the inner surfaces of silos and presently, the existing technology is able to clean hardly 50%. Thus our innovation would solve an important deadlock associated with food processing industries. Industries face a major problem that some residue of the previous batch may have settled at the bottom of flour mills, leadin to food pest which were not noticed until infestation levels thus causing health hazards to factory merchants, operating personnel and consumers. They require technol with facilities to reach right to the bottom for cleaning. Manual cleaning methods are more time consuming and usually involving significant amount of water. Our projec serves as a superior cleaning process which reduce time consumption up to 80% and also results in elimination of secondary waste in a much more cost-efficient way

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Patent Search

Invention Title	AN INTEGRATED IOT AND RFID BASED BAGGAGE TRACKING SYSTEM FOR AIRPORTS
Publication Number	09/2019
Publication Date	01/03/2019
Publication Type	INA
Application Number	201841006418
Application Filing Date	20/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	G06K7/10445; G07B15/00
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Abstract:

Air transport is one of the most sophisticated means of carrying around people and things, until the problem of baggage steps. Our belongings that are often lost or dama during flights,especially connecting flights is a very serious problem in this field. Having noknowledge about thebaggage after check-in until the passenger arrives at the ba claim. Placing RFID tags which is in the shape of a key chain on every baggage during check-in which has a unique code of 12-16 digits, all details of the passenger and his j is stored in the cloud under that number.Now the passenger is advised to download the required app from the server and get details of his baggage, in case if the passeng not possess a smart phone he can register with his mobile number to get Simple Text messages on Baggage update.Several readers are placed on the path of the baggage movement. The path of each baggage is predefined for every airport. Whenever the baggage crosses a reader, the reader sends the information in the chip to the Readers Cloud sends step by step tracking information to the customer so that in case of incongruity the customer can claim and track and trace his baggage with the help of airpo security and notifications are sent for any misplaced baggage to both the server admin and the passenger.The exact location of the baggage can be tracked virtually by the passenger. The possibility of misplaced baggage especially during connecting flights is avoided by placing RFID readers at all possible error zones (diversion spots).If the ba is moving towards the wrong lane or flight or left behind in the storage area, the passenger can identify the error using the luggage tracing in the app. The cloud consists o layer secure architecture to provide the best security during any inconvenience.

Complete Specification

01) The Integrated system of baggage tracking comprises of
a. RFID tags
b. RFID readers
c. Microcontroller with Wi-Fi Module
d. Identification setup through Local Servers
e. Monitoring setup through Global Servers
f. Help actuating module
g. Clouds storage
h. App downloaded from the airport server.
2) RFID tag as mentioned in claim 1; are made in a creative keychain / sticker type based on the shape of the baggage and relevant details about the passenger is store against each tag. The tag designed as key chains are reusable especially for domestic flights.
3) Help actuating module as mentioned in claim 1; is a unique and advanced IoT based technology which uses third party applications and data from the user and base on the severity of the problem the cloud level is alerted. This comprises of many actuators that create sounds and displays problem severity.
4) Cloud storage as mentioned in claim 1; comprises of many local, national and private cloud access available to the airport and the three-layer security architecture is followed in it as expressed in Fig 8.1;

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Patent Search

Invention Title	SECURITY BASED WIRELESS SMART LEDGE
Publication Number	09/2018
Publication Date	02/03/2018
Publication Type	INA
Application Number	201841006861
Application Filing Date	23/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H01H 73/06

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Abstract:

This paper presents the security based cost effective door bell system with innovative technologies. Nowadays, the electrical components are being replaced partially by electronic components with the development in technologies. This paper includes the implementation of Arduino based door bell system which are designed to send the message to the house member about the entry of the visitor. Node MCU conveys the information about the entry of visitors. Also the voice message will be delivered at th entrance of the home if the house members are unavailable. In case of any unlikely event like fire accident or Gas leakage at home the emergency alert message will be se house members. Thus the proposed system ensures the security and safety of the residents in an economical way.

Complete Specification

Security Based Wireless Smart Ledge

BACKGROUND This experiment re-modifies the usual door be!! into a smarter one.

To overcome the defects present in earlier bell such us it will not work during power cut. variable ringtones are not supported, short span of lite, large time consumption charging and discharging, connections are complicated with wiring, repairing cost will be high, rewiring will be difficult while any fault occurs, so that we prefer the smart door bell, where we use battery to make the device work in power cut also, it is a wireless device so the repairing cost and complexity of the circuit will be reduced, long l time device.

Initially, the source for this device is given by electricity board as well as solar panel. Rechargeable battery is used here. The battery is charged in the form of grid interact system, the stand by supplies power to the battery if the solar panel has minimum amount of energy and in other case the solar panel alone supplies the entire power tc the battery. Trip circuit has been used, part of circuit breaker. It consists of two nodes NO(normally open) and NC(normally closed), if the power has been supplied by sc panel it approaches the NCfnormally closed) node or else it trips the switch to NO(normally open) node where the supply is from electricity board. The battery gives supp to regulator which consists of two regulators 7805 and 7812. 7805 is used in a wide range of circuits. It works as a fixed-output regulator, adjustable output regulator, current regulator, adjustable voltage regulator. Here we use it to regulate the voltage. The 7S05 gives supply directly to the radio frequencies due lo its sensitivity. 7S12 g supply to controller (arduino). The arduino is a programmed software, it will run both in online and offline. We use arduino instead of PIC lo reduce the cost and also for easy programming. We can erase the program easily than PIC. RF signals and sound sensor are connected to arduino board. Sound sensor works on the principle of electromagnetic induction. If the sound is sensed, the sensor gives signal to the arduino and

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Patent Search

Invention Title	IMPLEMENTATION OF SMART HOURGLASS USING ARDUINO BOARD
Publication Number	09/2018
Publication Date	02/03/2018
Publication Type	INA
Application Number	201841006864
Application Filing Date	23/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G06F17/30672

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Abstract:

Implementation of Smart Hourglass using Arduino Board Time piece displays the time by means of digits. It is used in many applications like houses, offices etc., In this dual supply is provided. Solar panels are used. Time piece is made up of arduino, LDR, Regulator, seven segment display. In this Regulator is used to regulate the supply. This time piece is also attached with an Bluetooth. The seven segment display is used to display the time accurately. Time can be set either in normal time or railway time. In addition to the display of time here we use insect reflectors, regulators, RTC modules .speakers, Light Dependent Resistor.

Complete Specification

Implementation of Smart Hourglass using Arduino Board

BACKGROUND

In. early times supply for the devices is taken from electric board. Then due to the advantage of the development in energy from the renewable source solar panels are used everywhere.

1. The power supply is the ultimate source of time piece. Here we uses dual supply. One line is taken from household supply and the alternate supply is taken from the solar panel. The solar energy is the non-conventional energy that is taken from the heat and light of the sun. The solar panel is placed on the top and both the sides of the time piece. The solar panel consist of many features such as long lasting and it is damaged less by the high temperature. This solar panel can be accumulated in very small space. This solar panel has very high efficiency. The advantages of this solar panels are low installation cost, high heat resistance and bankability. Panels are made up of silicon due to its high durability.
2. After the supply is provided it move towards the tripper. Tripper normally works in two condition such as normally open and normally closed, when the normal supply beyond the usage level the tripper circuit cuts off the supply. When there is a over flow of current in the tripper circuit opens automatically. Here the tripper acts as a switch.

3. And then the power from the tripper flows to the battery. Here we make use of the battery which has high energy density. It prefers much as it discharge slowly. It has high durability, compact size, low cost and has higher efficiency. It is a rechargeable battery. In the absence of both supplies the energy stored in the battery is used. The battery has very high capacity and efficiency to supply the device for many hours. This battery provides supply to rest of the system

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Patent Search

Invention Title	SPARTAN ANNOTATOR KIT TO PERSUATE THE QUALITY AND ENGAGE THE FUNDAMENTAL OPERATIONS OF IC PACKAGE
Publication Number	09/2018
Publication Date	02/03/2018
Publication Type	INA
Application Number	201841006862
Application Filing Date	23/02/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	H05K1/0268

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Abstract:

The proposed ICCHECKER AND TRAINER ANDKIT is an innovative device which can be multi purposed either to check the performance of agiven IC or to perform the combinational logicoperations. A step down transformer has been employed and inbuilt in the kit to convert the power supply to the device"s nominal voltage. The rectifie then placed to convert the incoming alternating supply to a constant direct voltage. Further, the KIT is provided with a voltage regulator and a capacitor operating with var operating ranges. The LEDs play a major role in detecting the performance of the given IC. One end of the LED is supplied with power and the other end is provided with tl output from the IC .This greatly helps us to find out any fault within the IC and indicate them. So, we can avoid the usage of damaged IC. This way, we can check the longev strength, output, and other performances of the given IC.

Complete Specification

Spartan Annotator Kit to Persuate the Quality and engagethe Functional Operationsof IC Package

TECHNICAL FIELD

This hardware is greatly dealing with detection of flaws or faults in the IC and it can also be used to experiment the combinational logic operations. It has its immense application in reducing the time and complexity faced during the experiments held with the hypothetical circuits. It has a great scope in the field of electrical and electror branch of engineering.

BACKGROUND

The product which we have designed is furnished with various components that can be ■ effectively used to detect any malfunctions in the integrated chips. Initia the device is powered with alternating current which is drawn from the socket. These high voltages are over supplied and are too dangerous to all other components ins the kit, so in order to avoid any damage to the circuit, a fuse is affixed in it. The ultimate use of an electrical fuse is to prevent the short circuits or mismatched loads. It is also used as a safety measure for the person using the kit. Under normal conditions, the fuse wire constantly supplies the current to the circuit. If the incoming voltage drastically increases, then the fuse wire gets affected. By the principle of Joule's heating effect, the fuse wire gets melted. So it is important to select the fuse which has lo melting point. It infers that the fuse can melt easily when there are such situations. The foremost component inside the kit is the single phase transformer which can leve up or level

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Patent Search

Invention Title	EYEWEAR DETECTOR WITH CLAP ON TECHNOLOGY
Publication Number	10/2018
Publication Date	09/03/2018
Publication Type	INA
Application Number	201841007833
Application Filing Date	02/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G02C 11/00

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Abstract:

This invention deals with the difficulties of people with short sighted eye sight in identifying the power glasses. Generally people with short sighted eye sight have difficulti finding their power glasses in an ease, this invention will help these kinds of people to find their pair of eyewear without any discomfort. It is a lucid system which reacts u clapping sound of a person and glows a LED along with a buzzing sound, this glowing LED light and the sound will engage the person effortlessly so that he can find his pa eyewear without any hardship. This ideology involves fewer components and also they are smaller which can be easily fitted into conventional eyewears that are used curr

Complete Specification

Claims:

1. A device that senses clap sound and responds to find the eyewear by LED blinking and buzzer sound
2. As said in 1. the device can also sense other sounds like voice recognition, snapping sound.
3. A device can be interfaced with smart watch, smart earring aid and other smart devices to locate the eyewear.
4. A device used to locate and find eyewear as mentioned above can have power sources like button batteries, solar cells and OPV cells.
5. As mentioned in 1. A device can have any type or any size of LED lights and any type or any size of buzzers.
6. As mentioned above locating and finding the box containing the device.
7. As said in 1. a devices can have any alternatives of timer, oscillator, amplifier and micro controller IC's.
8. As said in 1. a devices conductivity between the components can have electric paint.
9. As said in 1. The components of the device can be made by MEMS and NEMS technology.
10. As said in 1. the device can have any number of LEDs and buzzers.

, Description:This kit is combination of both electronic and optical fields. It helps the people to find their eyewear without any discomfort by a simple clap. The clap sou enable the circuit and gives the output as LED blinking and buzzer sound by which they can easily find their eyewear. This kit is designed by using the following compone NE555 timer, microphone, LED, buzzer,BC547 transistors, connecting wires, DC power source, capacitors and resistors.

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Patent Search

Invention Title	ENHANCED DESIGN OF CONCRETE CUBE MOULD WITH TROUBLE FREE TWIST AND LOCK PATTERN
Publication Number	11/2018
Publication Date	16/03/2018
Publication Type	INA
Application Number	201841008989
Application Filing Date	12/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CIVIL
Classification (IPC)	E04C2/42; E04C3/28

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Abstract:

The innovation in the proposed mould has been developed to reduce the amount of time loss occurs during the moulding and demoulding of concrete cubes with efficien lock pattern as a connector. Concrete cube mould is casted with the objective of determination of the compressive strength of the concrete using the mould of some desir shape. Thus the concrete cubes are casted using the mould which requires the connections by means of bots, in which the base plate have to be bolt connected separatel main drawback in this mould system is misplacing of bolts during the casting process and the separated base plate. In order to release the bolts, tools like spanner are rec which is a time consuming activity. With all these views, the proposed mould is designed with twist and lock pattern along with the attached base plate with one of the side which is connected by means of welded joint. The twist and lock pattern consists of a rectangular knob used for handling and fixing the knob inside the provision provided adjacent side plate. This system of locking pattern enables the end user to save the time and doesn"t require any additive tools for moulding process.

Complete Specification

ENHANCED DESIGN OF CONCRETE CUBE MOULD WITH TROUBLE FREE
TWIST AND LOCK PATTERN FIELD OF INVENTION
The present invention related to concrete technology in which the design of concrete cube mould with trouble free twist and lock pattern on all corners possessing a har for quick release mechanism of rectangular, square and other related lock patterns to improve the easiness and minimise time loss during the moulding and demouldin process of concrete cubes.

BACKGROUND OF INVENTION
In general, concrete in the fresh state along with the cement gel will be less bonded when compared to the hardened state. On hardening, the cement paste will set into moulded shapes with high bonding even with the holes of bolts and nut joints which will make trouble during the demoulding stage. Also the bolts associated with the bolted connections may get misplaced after demoulding which makes the casting person to search for the bolts during the moulding procedure.
With this view, the ease of moulding and demoulding process can be achieved by providing a twist and lock pattern on all four sides of the cube mould. With an added advantage of inbuilt base plate at the bottom. The base plate is attached with one of the side plate by means of welded joints. Again which makes the effortless mouldin procedure.
In this invention, the above mentioned twist and lock pattern is studied and implemented in concrete cube mould with varied shapes and thickness of twist and lock piec Since the ■ reduction in the number of connections is achieved by this invention, it proves to be efficient and economical

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Patent Search

Invention Title	REMOTEMEDICO : AN INTELLIGENT DEVICE TO TRACK AND TREAT THE DENGUE PATIENT OF REMOTE VILLAGE
Publication Number	12/2018
Publication Date	23/03/2018
Publication Type	INA
Application Number	201841009264
Application Filing Date	14/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	G16H1/00

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Abstract:

India contains approximately half of the 205 billion people worldwide who are at risk of dengue fever. It is the most common mosquito- borne viral disease of humans. It i from the reports that in the year 2016 around 1, 29,166 were affected and 245 lost their life in India due to DHF. Govt of India is taking tremendous steps with the concern govts to bring the situation under control. But, the Rural and Remote villages in India are facing a worst hit mainly due to lack of hospital facilities. The infected patients are finding extremely difficult to get know about the presence of disease (diagnosis) and to get treated for the disease due to unavailability of hospitals in reachable distance. order to assist the physician in making such decisions, medical intelligent systems can play major role. The device will help such patients in two ways (i) to get to know abo presence of dengue, using a medical decision support system (DSS) installed in their village in the form of a device, (ii) to grade the severity of the dengue after getting adn the hospital. This DSS is connected with the hospital through a cloud so that the patient detail can reach the hospital database instantly. Upon receiving the patient data, t hospital can make arrangement to attend the patient who is in remote village. Secondly, after admitting the patient to the ICU the grading of the severity of the dengue is predicted by the intelligent system using the time series data. This severity prediction will help the physicians to plan for the medication. The diagnosis of dengue is done u the decision tree algorithm and the grading of severity is done using Fuzzy Cognitive Map (FCM) based approach.

Complete Specification

. Knowledge Acquisition:
[0004] Acquisition of knowledge is the first step in construction of expert system. Here the knowledge acquisition is done from the data of medical records and with the help of physicians. The data which are elicited in the form of natural language is mapped into formal rules and numerical data format.
. Decision tree construction:
[0005] The data which is in table form is used to construct a decision tree. Weka toolkit is used to construct this decision tree. This tool can be embedded with Matlab. Af the construction of decision tree, pruning is done.
, Rule Optimisation:
[0006] The rules which are generated after pruning are optimised using optimization algorithm. The optimised rules can be used for inference. Upon receiving the test d the inference engine can perform classification using fuzzy systems and hence the diagnosis of the disease is done. The fuzzy system along with Ant Colony Optimizatior (ACO) is used to perform training of the (class label) known patient data and testing of the new patient test data.
ieverity Prediction:
9007] In this proposed methodology, a Genetic Algorithm (GA) based Fuzzy Cognitive Map
FCM) is used. FCM is a directed graph which represents the cause- effect relation between
oncepts (nodes). In this work, the weakness of FCM during learning process is addressed by
itroducing a hybrid learning methodology which includes unsupervised Hebbian learning

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Patent Search

Invention Title	AUTOMATED IOT BASED IRRIGATION USING PRIORITY QUEUING MECHANISM AND MONITORING NPK LEVELS VIA COMPUTATIONAL INTELLI TECHNIQUES
Publication Number	12/2018
Publication Date	23/03/2018
Publication Type	INA
Application Number	201841009625
Application Filing Date	16/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	AGRICULTURE ENGINEERING
Classification (IPC)	A01G 9/14

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Abstract:

ABSTRACT Automated IOT based irrigation using Priority Queuing mechanism and monitoring NPK levels via computational Intelligence techniques Cultivation of crops in environmentally controlled area emphasis rich vegetation and rich fertile crops. Greenhouse agriculture is followed in many countries over last several decades to cultivate year round to meet the market demand within limited land resources. The Green house agriculture has its own advantages but human intervention is indispensable in greenhouse for the purpose of irrigation and to check the fertility level of soil. This system overcomes the above mentioned drawback by providing loT based smart irrigat using priority queuing mechanism and detects the deficiency level of the nutrients using computational intelligence technique. The 24*7 monitoring of moisture and nutri level is intimated to the greenhouse farmer using user friendly mobile app.

Complete Specification

Automated IOT based irrigation using Priority Queuing mechanism and monitoring NPK levels via computational Intelligence techniques

TECHNICAL FIELD

Our innovation involves smart irrigation in greenhouse farming using Internet of Things to cultivate crops year round to meet the market demands. BACKGROUND

The ideology of growing plants in an environmentally controlled area supports rich vegetation and rich fertile crops. There are several methods available in agriculture which emphasis on high yield of crops. Greenhouse is a dominant method of agriculture where plants require regulated climatic conditions. The concept of green house extensively followed in many countries over last several decades. Its structure comprises of framed architecture covered with translucent material which supports any ki of crops, fruits and vegetables which can be grown in controlled climatic conditions. The main advantage of greenhouse is that it is suitable for cultivating crops year rou to meet the market demands. It is one among the best opportunity for cultivation within the limited land resources. Though this green house has many advantages, hun intervention is indispensable in greenhouse for the purpose of irrigation and to check the fertility level of soil. This invoked us to develop a system for smart irrigation wh includes deployment of sensors at various areas guided by computational intelligence technique which will take care of moisture content and soil fertility.

Our innovation empfoys intelligent sensors for smart irrigation in the greenhouse farm for year round cultivation. OBJECTS OF THE INVENTION

An object of the present disclosure is to provide smart irrigation based on priority queuing mechanism which eliminates human intervention in the farm and reduces power consumption.

An object of the present disclosure is to provide computational intelligence technique to

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Patent Search

Invention Title	UBIQUITOUS WEARABLE: SMART HEALTH MONITORING SYSTEM
Publication Number	12/2018
Publication Date	23/03/2018
Publication Type	INA
Application Number	201841009895
Application Filing Date	19/03/2018
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Field Of Invention	ELECTRONICS
Classification (IPC)	G04C 17/00

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Abstract:

ABSTRACT UBIQUITOUS WEARABLE: SMART HEALTH MONITORING SYSTEM Medical field is the predominant field in the country that is given much importance. People fac diverse health issues daily. Though they cannot be circumvented, the diverse effects can be overcome to a certain extent if some immediate remedial measures are taken. Improper communication between the patient and the hospitals is one of the reasons for the increase in deaths. Around 1, 50, 000 people die due to lack of first aid meas every year. Situations where first aid could potentially make a difference include suffocations due to blocked airways, which claims 2, 500 lives every year, while heart attac around 29, 000. Further, the recent documentaries show that the problems faced by the people in real-life should be looked upon immediately. This has led to the design a universal health band that would address the major issues faced by the people. A smart band that would sense the temperature and pulse rate would be a better persona assistant. The health of the individuals is incessantly monitored and an alarm is generated in case of emergency. Certain safe limit is set for every parameter and the alert to the registered kinsfolks of the affected and the hospitals nearby.

Complete Specification

UBIQUITOUS WEARABLE: SMART HEALTH MONITORING SYSTEM

TECHNICAL FIELD

Medicine: Our innovation lies in the field of medicine, which involves monitoring the health status of an individual using Internet of Things (IoT) technology.

BACKGROUND

Medical field is one of the most important fields in the country as it has a great impact on the population. So it should be looked upon by the government regularly. Challenges in the medical field are increasing day by day due to the lack of medical facilities and proper communication between the patient and the nursing homes. It is found that about 1, 50, 000 people are dying every year due to the lack of first aid measures. Situations where first aid could potentially make a difference include suffocations due to blocked airways, which claim 2,500 lives every year, and heart attacks, which kill 29,000. The medical problems faced by the people should be looked upon immediately.

It is found that when a patient is in imminent danger, deferred communication of the patient's health status to the kinsmen and the nearby hospitals leads to delay in th appropriate treatment and subsequent increase in deaths.

This stimulus led to the design of a health monitoring wearable that aids in observing the rate of patient's heart beat and body temperature. In case of deviation from th normal levels, an alert is generated and forwarded to the relatives and hospitals at proximity, so that the affected can be treated immediately and effectively.

OBJECTS OF THE INVENTION

S. An object of the present disclosure is to design a personal health analyser

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Patent Search

Invention Title	NOTIFY PARENTS ON KID'S SAFETY MONITORING AND ALARM SYSTEM USING INTERNET OF THINGS
Publication Number	12/2018
Publication Date	23/03/2018
Publication Type	INA
Application Number	201841009913
Application Filing Date	19/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G08B21/02

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Abstract:

As children grew up it is hard for parents to look after their safety. Children can face any type of dangerous situations both inside and outside the home. Parents who go to will always have some fear about their kid"s safety. Similarly, they have the same fear when the kid leaves home for school or playing or for anything. One of the solution w found for this problem is to monitor the kid 24/7. This can be done with help of some sensors working together. Our project focuses on monitoring children by wearable s attached either to the kid or to their belongings. Vibration sensor and heartbeat sensor are used in addition to GPS (to track their location 24/7). We have also added a Pus Button to check whether the child is wearing the sensors or not. A keypad is attached so that we can type any contact number to which messages are sent in the time of emergency. The working of the product is that once the kid wears the product, the push button goes to ON state. Heartbeat sensor measures the heartbeat of the kid continuously. Vibration sensor senses the vibration if it exceeds the threshold level. GPS keeps track of the kid"s current location. This information is updated in the cloud s regularly, so that the parents can check their kid"s safety whenever they want by sign into their cloud account. In case of any emergency situation the device notifies paren the state of their kid through an SMS. An android application is also provided, which fetches the details from the encrypted message received such as heartbeat value, vibr status of push button, and location. The application also redirects us to Map to show the kid"s current location. The system sends messages to parents if the observed vibr level is too high, or if push button goes OFF.

Complete Specification

Notify Parents on Kid's Safety Monitoring and alarm System using
Internet of Things
TECHNICAL FIELD
[0001] Our innovation lies in the field of security measures which involves safety of children of age below 12 using Internet of things (IOT) technology
BACKGROUND
[0002] Children are our Nation's most precious resource, but as children, they often lack the skills to protect themselves. It is our responsibility, as parents and guardians safeguard children and to teach them the skills to be safe. This pamphlet is designed to help you talk to your children about how to protect themselves against abductior exploitation, and painful experiences. Every home should teach children about safety and protection measures. As a parent, you should take an active interest in your children and listen to them. Teach your children that they can be assertive in order to protect ■ themselves against abduction, exploitation, and uncomfortable situations. And most importantly, make your home a place of trust and support that fulfills your child's needs. Together we can protect our Nation's children by teaching them to be smart, strong, and safe.
[0003] Approximately 203,900 children were abducted in 1999 in "family abductions" in which a family member was trying to deprive a caretaker of custodial rights. 98% these children were located or returned home. None of these children were killed. There were approximately 58,200 (28.5%) "non-family abductions" in 1999. Abductions this category involved forcibly moving or detaining the child for a relatively short period of time, usually in connection with another crime.
OBJECTIVE OF THE INVENTION

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Patent Search

Invention Title	SMART DISPENSING SYSTEM AND THE METHOD OF OPERATION FOR INVENTORY MONITORING
Publication Number	13/2018
Publication Date	30/03/2018
Publication Type	INA
Application Number	201841010594
Application Filing Date	22/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G07F7/00

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Abstract:

ABSTRACT A Smart dispensing system which facilitate to monitor the inventory , update the data dynam ca. y into the cloud and gives the status of each bins which will he — he stock level before it reach out-of-stock situation. This system further includes firs, in firs, out me hod to avoid deterioration and obso.escence of items in bins. Smart d.spensing sysem Uprising plurality of semi-circular tubular bins which can hold vanous types of stock ,.em Tects or retail products. Each dispensing unit comprise of .wo semiarcular tubu ar bins 4 7 E one over another and kept inside the cylindrica, bin holder 3^ As soon as the lower^bm I empty a push button in the dispensing unit is .0 be pressed whtch w,ll swrtch ON the RED LED send email to the respective authority about the status of the respective bin, tore the toa ike date, time , item name , bin numb the cloud. It will also make the cylindr, a bin holder 3 to rotate about ,80" with help of stepper motors 14 or a DC gear mo or mounted a, the back side of the dispensing ur which swaps the upper bin to lower bin , lower b.n to upper bin 4,7. To refill, the upper semi circular bin the bin have to be removed rnanu, ly from the cylindrical bin holde after refilling the bin is re-inserted ,n.o the cyhndncal bin holder 3 which will automatically switch ON Green LED, send email, notification and also store the data in cloud.

Complete Specification

US5671362A titled " Materials monitoring systems, materials management systems and related methods" discloses an inventory monitoring system which automatically sense the presence and number of materials or product items stored in a storage shelves. A novel electronic shelf unit equipped with a sensing grid or array of sensors t detect ,tems support* on the shelf optica!!,, or by pressure transducers or the like. Inventory informal ,s collected from multiple shelves and relayed to remote vendors o local computer systems
for billing.
US5608643A titled "System for managing multiple dispensing units and method ot
operation" discloses a system for managing multiple dispensing units includes bins to hold a
quantity of product with reference level sensor to monitor the out-of-stock condmons.
US4961533A titled " Inventory control system" discloses an apparatus automat.cally determining the weigh, of a plurality of item, each of the item having a surface portic with a unique element thereon, comprises a plura.ity of assemblies and a computer, a transducer ,n operative contact with the supporting surface for producing an outp signal indicate of the weight of an item placed on the supporting surface which provides an inventory record.
US6384349BI titled " Inventory control apparatus" discloses An inventory control apparatus inc.udes a support and a pressure sensitive device underlying the support, whereby a gross value is provided for the pressure exerted collectively by all inventory positioned on
the support.
From the above prior art search it clearly shows that this present mvent on, s having novel semicircular bin design and method of operation to monitor the out-of-stock

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Patent Search

Invention Title	FIBER BRAGG GRATING BASED NON ZERO DISPERSION SHIFTED FIBER FOR NOVEL ULTRA HIGH NEGATIVE DESPERSION COMPENSATOR
Publication Number	20/2019
Publication Date	17/05/2019
Publication Type	INA
Application Number	201841011221
Application Filing Date	27/03/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G02B6/34

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Abstract:

Non Zero Dispersion Shifted Fiber (NZDSF) yielding positive dispersion coefficient is combined with the newly designed Fiber Bragg Grating (FBG) which will function as a n dispersion compensator in order to compensate the positive dispersion induced by the NZDSF and when this is implemented in Wavelength Division Multiplexing (WDM) v increase the fiber span length to a great extent. An optimized NZDSF of dispersion coefficient of 5.8ps/nm-km and dispersion slope of 0.05 ps/nm2.km which produces a p dispersion of 580ps/nm for fiber length of 100 km at lOGb/s is compensated by the optimize FBG which provides a negative dispersion of -580ps/nm at a wavelength of 15 By using Inverse problem solver calculator resulting grating is of 200mm along with a very less ripple factor of-0.9 which provides high negative dispersion coefficient of -2 ps/nm.km. Moreover, NZDSF of large effective area A^fr =120um2 will further increase the fiber span length up to 500km because it overcomes the nonlinear effects for ve transmission power which is required for high capacity optical networks.

Complete Specification

[0001] The present invention relates to the inclusion of newly designed Fiber Bragg Grating (FBG) module in a Wavelength Division Multiplexing (WDM) based Optical networks, and more specifically the novelty of our invention is the combination of the Non Zero Dispersion Shifted Fiber (NZDSF) along with the proposed FBG providing very high negative dispersion in order to enhance the dispersion compensation in WDM optical transmission system.

Background of the invention:

[0002] Every day, demand of Bandwidth is increasing because of number of communication users increasing. Demand can be satisfied only with the development of opt networks because of its THz (Tera Hertz) frequency of operation. But it is facing two main challenges, Attenuation and Dispersion. Attenuation can be overcome by using Optical Amplifiers. Dispersion will limit Bit rate (or) Bandwidth and Length (BL) product of fiber networks.

[0003] A United States patent of Chraplyvy et al. U.S, Patent, No. 5,559,920 demonstrated the traditional requirement of Dispersion Compensating Fiber (DCF) to overcon the dispersion due to Standard Single Mode Fiber (SMF). In this work, critical placement and lengths of DCF maximize capacity in upgraded in-ground optical fiber communication systems were presented. Higher per-channeFbTt cafes iiCsihgle^hannel systems aricl1 in WDM systems were permitted. The transmission

system consisted of composite spans of transmission fiber with a dispersion of+17 ps/nm-km, and of DCF with a dispersion of from -50 ps/nm-km to -100 ps/nm-km. Transmission fiber lengths were nominally 80 km and, accordingly, of dispersion product (80 km) x (+17 ps/nm-km)= +13.60 ps/nm. DCF were in requirement of optical

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Patent Search

Invention Title	AN AUTOMATED REAL TIME ACCIDENT DETECTION SYSTEM AND TRACKING USING MOBILE AND GLOBAL POSITIONING SYSTEM (GPS) BASEI UTILITIES
Publication Number	21/2018
Publication Date	25/05/2018
Publication Type	INA
Application Number	201841018299
Application Filing Date	16/05/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	GENERAL ENGINEERING
Classification (IPC)	H02S 50/00

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Abstract:

An Internet of Things (IOT) based disaster information management system and device for applying in case of road accidents involving vehicles and their riders is providec enabled by means of a Global Positioning System (GPS) device which is an all weather system and also capable of working in areas where network availability is poor. A ras pi module and a unique code is programmed in this module to achieve this functionality. Vibration sensors are interfaced with the raspberry pi module which senses the v frequency of the accident and A maximum stress limit of the vibration threshold is programmed in the module. The instantaneous accident information transmission devi capable of sending information on accidents on roads, and send information to nearest relatives of victims, law enforcing agencies and insurance companies for getting in action at the earliest to save lives and minimizing loss of time for action.

Complete Specification

Claims:1) A mobile based instantaneous accident information transmission system, which is enabled by Global Positioning System (GPS) device, the said system comprising of ;
A raspberry pi module and a unique code is programmed in this module to achieve this functionality. Vibration sensors are interfaced with the raspberry pi module whic senses the vibration frequency of the accident and A maximum stress limit of the vibration threshold is programmed in the module

A small wireless radio, with its markings visible through a microscope or magnifying glass, the Broadcom BCM43438 chip provides 2.4GHz 802.11n wireless LAN, Bluetoc Low Energy, and Bluetooth 4.1 Classic radio support. Cleverly built directly onto the board to keep costs down, rather than the more common fully qualified module approach, its only unused feature is a disconnected FM radio receiver,

An Antenna, which has no requirement to connect an external antenna to the and its radios are connected to this chip antenna soldered directly to the board, in order tc keep the size of the device to a minimum. Despite its diminutive stature, this antenna should be more than capable of picking up wireless LAN and Bluetooth signals eve through walls

2) The mobile based instantaneous accident information transmission system as claimed in claim 1, is provided with a high sensitivity 801S Vibration Sensor module, snugly fit into the helmet of the driver of the two wheeled vehicle, which has two output signal pin one digital pin(D0). When it detect some vibration up to certain

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Patent Search

Invention Title	HUMAN BEHAVIOUR PREDICTION USING BIOMETRICS
Publication Number	23/2018
Publication Date	08/06/2018
Publication Type	INA
Application Number	201841019596
Application Filing Date	25/05/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06K 9/00

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Abstract:

In biometrics, most of the research works were focused on the authentication purpose. This invention is an application of biometrics to identify and analyze the human behaviour. The behaviour analysis is performed based on the position of the principal lines present in the palm. The conduct of an individual is identified and examined us approach. It is clearly realized that the conduct and qualities of individuals differ from individual to individual with respect to the palm and finger prints. This invention is o greater benefit for psychologists to offer more exact counsel, teachers and even for legal experts to examine the people. It also helps a head to comprehend their troupe t accomplish their objectives.

Complete Specification

Claims:1. A system to analyze and identify the behaviour of a human based on the palm and finger prints.
2. As said in 1, the system can also predict the behaviour of any living organism.
3. As mentioned in 1, the system can use any kind of biometric feature to predict the behaviour of the living organism.
4. As said in 1, the system can have any alternative artificial and computational intelligence techniques to analyze and identify the behaviour of a living organism.
5. As mentioned in 1, the system can accept voice recognition and also facial expressions to predict the human behaviour.
, Description:FIELD OF THE INVENTION
This invention is an application of biometrics to identify and analyze the human behaviour. The behaviour analysis is performed based on the position of the principal li present in the palm. For the identification of Human behaviour, the finger and palm prints are used. The present invention will be of great privilege to psychiatrist to provide more precise consultation, teachers and even for judicial professionals to analyze the persons.
BACKGROUND OF THE INVENTION
The incredible development of Biometric in hand is easy to use and has impelled researchers to investigate new biometric features and traits. The Anatomy of Human Fingers and Palm are quite sophisticated and mostly accountable for the individuality of texture and patterns.
The Human behaviour identification using psychology and behaviour (i.e.) Biometrics, progressively utilized for various commercial purpose. Most of the research works in Biometrics were focused on the validation purpose. Till now the ongoing projects have been utilized for substantiation purpose alone. Biometric is utilized in a different perspective in the present invention. The conduct of an individual is identified and examined using this approach. It is clearly realized that the conduct and

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Patent Search

Invention Title	DEPICTION AND CREATION OF MODIFIED BIO-TOILET
Publication Number	24/2018
Publication Date	15/06/2018
Publication Type	INA
Application Number	201841020766
Application Filing Date	04/06/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A47K11/00

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Abstract:

This invention revolves around constructing a bio-toilet, in which major changes have been implemented in rectifying the defects like clogging problems, methane en improper working of pneumatic ball valve and wastage of effluent water. Capacitive sensor, desiccator, agitator and gating systems are used to avoid those above m defects with anaerobic and aerobic bacterial actions.- From this, the production of methane gas is accelerated and the overall gas losses to the surrounding are also r without any clogging. In one embodiment, bio-digester with all five compartments. In further embodiments, capacitive sensors and agitator and the methods of work enclosed.

Complete Specification

Objectives of the invention:
[0003] The major objective of this innovation is to solve the existing defects in conventional bio-toilet.
[0004| Defects in existing bio-toilet:
1.) Clogging problem
2.) Methane emission
3.) Improper working of pneumatic ball valve
4.) Wastage of effluent water
Background of the innovation:
[0005] Constant literature survey and taking out the steps taken out of the Indian railway system proved very helpful for the development of the innovation.
[0006] IR-DRDO Bio-Toilet System:
1. Discharge on track creates environmental problems as well as problems in working to work man.
2. A multi-directional strategy has been implemented for adoption in IRPassenger coaches.
3. The MOU has been signed with DRDO for joint technology development
4. The first rake with bio-toilets developed by DRDO are running in bundelkhand express since 18th January-2011.
5. Five more rakes fitted with DRDO technology toilets have been allotted to NR, NCR, NFR, NFR, CR, WR, WCR and SECR

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Patent Search

Invention Title	A METHOD AND A DEVICE FOR ENABLING ENHANCED IDENTIFICATION AND COMMUNICATION THROUGH SIGN LANGUAGE BETWEEN DIFFE ABLED AND NORMAL PERSONS
Publication Number	12/2019
Publication Date	22/03/2019
Publication Type	INA
Application Number	201841013055
Application Filing Date	05/04/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	A61B 5/117

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Abstract:

An improved method and device for communicating with people with hearing and speech disabilities is provide. The symbol language used for communicating with peopl speech and hearing impairment are decoded into messages that can be displayed on LED screen so that the person with normal faculties can decipher them in quick time render the required service for them. The Edge detection technique is employed in this new method for deciphering the gesticulations / symbolic language and they are di in LED screen so that bidirectional communication of the person and the differently abled. The Gesticulation Identification Device (GID) will help people communicating to person who cannot understand the sign language. Thus improved and enhanced communication between hearing and speech impaired people and people with normal fa are made possible and enabling the various tasks of day to day life of the people with disabilities are made easier.

Complete Specification

DESC:

The main problem that the differently abled (Deaf and Dumb) face in life is the trouble they undergo while transferring their message, ideas or opinions to normal peopl The normal people cannot easily understand the gestures of differently abled until they learn the sign language of the differently abled. So, the ultimate aim of our proje is to design a device that can easily identify the gestures of the differently abled and convey it to the people they are trying to communicate. The Device that we have designed will monitor the gestures of the differently abled like Deaf and Dumb and record the information regarding their gestures and displays it in the message form c LED screen connected to it. The sign language gestures will be recorded in prior as images in the device memory. The processor will detect the movement of the person's hand gestures and identify the positions of the gestures. These identified gestures will be decoded as information which will be displayed on the device screen as text content

The officer uses the GID

The double colour ( ) arrow indicates the bidirectional communication of the person and the differently abled. The GID will help people to communicate to the person to who doesn't know or understand the sign language.

The GID scans the sign language and displays the message on a LED display. The Officer or person who use the GID can easily get to know what the person is trying

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Patent Search

Invention Title	METHOD TO CONTROL, MONITOR AND SELF CLEAN FOR SMART PREPAID MULTI-STOREY WATER DISTRIBUTION SYSTEM
Publication Number	31/2018
Publication Date	03/08/2018
Publication Type	INA
Application Number	201841027945
Application Filing Date	25/07/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G01F15/00

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Applicant

Name	Address	Country	Nationa
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Abstract:

A method to control, monitor and self clean for smart prepaid multi-storey water distribution system comprising plurality of solenoid valves (6), flow sensors (7), water leve sensor (9) and a microcontroller (8) to control the system. This method monitors the status of the water storage system and automatically switches ON or OFF the water p maintain the water level in the storage unit. This system also collects the data from the flow sensors and stores the information to the cloud for future reference. The majc importance for the system relies on the prepaid water bill method thus helping the tenant to pay the water bill only for the amount water consumed. A self cleaning mech is also included in the system which flushes the accumulated sediment or sludge from the storage system base periodically or by sending command to the microcontroller through mobile phone computer or similar communication devices.

Complete Specification

US7457735B2 titled " Method and system for automatic water distribution model calibration" discloses a system which automatically calibrates the water distribution model by analyzing the various parameters such as pipe roughness coefficient, junction demand, pipe and valve operational status.
US20140358499A1 titled "Pressurized water distribution network management" discloses a computerized method for scalable management optimization of pressurized water distribution networks.
US5921207A titled " Automatic flushing system for water tank " discloses an automatic drain valve and periodic flushing of accumulated sediment in the hot water tanks rapidly opening and closing the electronic actuated drain valve.
CN2784887Y titled " IC card prepayment gas meter and water meter with infrared communication function " discloses a fully enclosed infrared based IC card prepaymen for gas or water meter. This system completely works on infrared communication and mainly focuses on illegal purchase of gas or water.
From the above prior art search it clearly shows that this present invention is having novel method to control the water distribution system in multi-storey building which helps the tenant to pay the water bill for consumed amount of water. This system also has self cleaning mechanism which automatically cleans the storage system as pe schedule mentioned in a microcontroller or by sending command through device like mobile phone, tablet or computer.
OBJECTIVE OF THE INVENTION:
1. This present invention seeks to provides a prepaid water bill system for multi-storey buildings tenants according to their usage of water.
2. This present invention also focuses on self cleaning mechanism to clean the storage system as per schedule by the microcontroller or sending command through mobile phone, tablet, computer or any other similar devices.

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Patent Search

Invention Title	CONTROL AND MONITORING OF SMART CULTIVATION IN HYDROPONIC ENVIRONMENT
Publication Number	31/2018
Publication Date	03/08/2018
Publication Type	INA
Application Number	201841028151
Application Filing Date	26/07/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	AGRICULTURE ENGINEERING
Classification (IPC)	A01G31/00

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Abstract:

Internet of things (IoT) is inevitable when intelligent cultivation techniques reach the summit. Hydroponic cultivation is one such cutting-edge method available. It involves cultivation hence the pH balance, nutrient level maintenance and moisture has to be in constant scrutiny. Involving Iot, Cloud storage and mobile application in such cultiv technique is the key objective of the design. The proper maintenance of plants and the growth phases are monitored. This is achieved by placing appropriate sensors in th and absorbing medium. Infection control is done by processing the image of the plant digitally. The gathered data is stored in the cloud and can be accessed through mob application. The user is notified of every stage of growth and ambience of plant growth. Temperature, nutrient level, pH balance, plant wellbeing are all notified in the mob application.

Complete Specification

Claims:Claims:-

1. We claim an automated hydroponics system with IOT using any source of water, water pumps, nutrient mixer along with nutrient tank, micro controllers, solenoids, sensors, seeding bed, camera, oxygen pumps, water re-use tanks, water storage tanks and pipes.
2. As mentioned in 1, we claim that the system may contain any modifications in the design, structure, phase, any range of area, perimeter, height, etc of the system.
3. As mentioned in 1, we claim that the system may contain any communication device, communication medium, communication frequency, and communication banc and communication bandwidth, use of any wireless technology, any type of GPS/GSM system or device or use of quad copter.
4. As mentioned in 1, we claim that the system may contain any organic and inorganic nutrients, any number of nutrients used in the nutrient mixer.
5. As mentioned in 1, we claim that the system may contain any crops that are to be grown using hydroponics system.
6. As mentioned in 1, we claim that the system may contain any type of camera, any number of cameras for digital image processing to monitor the crops, growth of th plants or the entire system.
7. As mentioned in 1, we claim that the system may contain any artificial and computational intelligence techniques to monitor or improve the system along with data logging.
8. As mentioned in 1, we claim that the system using digital image processing technique to identify the infection due to any pest and disease that is to be identified.
9. As mentioned in 1, we claim that the system may contain any type of alternative power source (Solar, wind, hybrid, etc.).

Description:FIELD OF THE INVENTION

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Patent Search

Invention Title	INTELLIGENT TRAFFIC REGULATORY SYSTEM USING IOT
Publication Number	39/2018
Publication Date	28/09/2018
Publication Type	INA
Application Number	201841033053
Application Filing Date	03/09/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	GENERAL ENGINEERING
Classification (IPC)	G08G 1/00

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Abstract:

Wireless communications has become the bottom line of intelligent systems. They are seldom used for traffic monitoring and control in developing country like India. The proposed system monitors the traffic violations and alerts the violator about the penalties and charges that will be raised after the violations. The design consists of GSM a traffic of vehicles and RFID identification at toll booths. The violators are charged and the alert messages of charges pressed and penalty deducted will be displayed in the fixed in vehicle as well as text messages. Parking availability and no entry alerts are also available and customizable by the user. Using such technologies and traffic trackir violations against traffic rules can be minimized or decreased to zero. This technology can also be used in auto toll payments. This is realized by linking the UID (Aadhar Nu with the system, through which the penalty or the toll payment can be deducted from the linked bank accounts.

Complete Specification

Claims:1. We claim a system or device placed in any type of vehicle that can monitor traffic (violations, traffic situations, etc.) and impose penalties for the violators us the spatial data, Navigation maps (eg:-Google maps, Apple maps, etc), GPS and GSM module in a smart device linking it with UID (Aadhar number), notifying the user through apps in smart phones and devices. The system or device is also connected to a server that can control and monitor every device.

2. As mentioned in 1 we claim that the device or system may contain any type of electrical or electronic circuits and any type of processor or controller.
3. As mentioned in 1 we claim that any communication medium or system in the vehicle used for the device or system.
4. As mentioned in 1 we claim that any intelligence and computer algorithms used for the above mentioned process.
5. As mentioned in 1 we claim that any type of power source used for our system or device in the vehicle.
6. As mentioned in 1 we claim that the system or device can have any type of architecture and physical designs.
7. As mentioned in 1 we claim that any type of navigation maps (eg:-Google maps) used in the system or device is ours.
8. As mentioned in 1 we claim that any type of transaction system used to debit the penalties in our system or device is ours.
9. As mentioned in 1 we claim that any information about the vehicle or its user linked through UID(eg:-Aadhar number).

, Description:FIELD OF THE INVENTION

Traffic violations like no entry, no parking, over speed and traffic signal violation are the challenges faced day after day, and these issues can be avoided if monitored properly. Disobeying signals, no parking violations, breach of standards in control of noise, over pass the zebra line, air pollution & road safety are other misdemeanour traffic rules by the public. By violating these rules drivers cause public nuisance and challenging tasks to the traffic control. If these violations are controlled it would avoi

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Patent Search

Invention Title	AUTOMATED CORROSION CONTROL AND ELECTROLYTE MONITORING IN LEAD-ACID BATTERIES
Publication Number	42/2018
Publication Date	19/10/2018
Publication Type	INA
Application Number	201841038722
Application Filing Date	12/10/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H01M 2/00

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Abstract:

This IOT enabled invention gives the application of automatic cleaning of uninterrupted power supply battery terminals with low cost. This invention will clean the battery terminals by brushing and spraying the Vaseline through nozzle once a month, reducing the human interface and manual work. And it will send an indication to the mobile application when the Vaseline level and electrolyte level when it is low. A network is established between the computing devices and the receiving user with a remote serve database, also the system is configured with mobile application. It will send an alert message to the application when the electrolyte and Vaseline level is low. This automa reduces time and manual work.

Complete Specification

Claims:Claims:-

1. We claim an IoT enabled system which remotely senses and automatically cleans the rust in the terminals of Lead-Acid batteries and monitors the distilled water lev in the batteries, this system comprises of a server and database to establish connection to the device and the user via a mobile application. The system also consist of a setup comprising of servo motor, micro controller, brush, IR sensor, Ultrasonic sensor, etc.
2. As we said in (1), we claim that the device or system may contain any type of electrical or electronic circuits and any type of processor or controller.
3. As we said in (1), we claim the implementation of this system or device for any type of batteries (Example: UPS batteries, Vehicle batteries, etc.)
4. As we said in (1), we claim that the system or device may contain any type of sensors or other measuring devices and equipments.
5. As we said in (1), we claim that this system or device may be developed inbuilt with the battery or as a standalone unit.
6. As we said in (1), we claim the use of any type of power source is used for our system or device.
7. As we said in (1), we claim the system or device can have any type of architecture and physical modification in this design.
8. As we said in (1), we claim that the system or device can have any type of user interfaces (Example: Mobile applications, Computer software and applications, Displa terminals, Web server display, etc.) or can have any type of artificial intelligence and computer algorithms.
9. As we said in (1), we claim that the system or device can also be used to monitor the status of various conditions and parameters of the battery.
10. As mentioned in (1), we claim that the system may contain any communication device, communication medium, communication frequency, and communication bar and communication bandwidth, use of any wireless technology, any type of GPS/GSM system or device.

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Patent Search

Invention Title	A SMART MOSQUITO CONTROL FISH TANK AND A METHOD TO FEED MOSQUITO LARVAE AND LIVE INSECTS TO AQUARIUM
Publication Number	41/2018
Publication Date	12/10/2018
Publication Type	INA
Application Number	201841037304
Application Filing Date	03/10/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	A01K 63/00

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Abstract:

ABSTRACT A smart mosquito control fish tank and a method to feed mosquito larvae 19 and live insects 18 to aquarium fishes 20. Mosquito larvae 19 and insects 18 are o the most nutritious live food for fishes. Moreover feeding mosquito larvae 19 regularly will improves fish''s colour and their breeding system. To feed live insects 18 to the the insects 18 are attracted to the surface of the water by means of sliding insect trap 3. Mosquito larvae 19 are cultured by ah automatic mosquito breeder 2 in which the adult mosquitoes were attracted to lay their eggs. The mosquito breeding compartment 16 will automatically drain and refill the fresh water periodically as per schedule. E draining the breeder compartment 16 water into the fish tank 1 it automatically transfer the mosquito larvae 19 to the fish tank as a live food for fishes 20 . The breeding compartment 16 refills automatically by fresh water from the fish tank 1 itself once it drains the water and cultured mosquito larvae 19 into the fish tank. A Beef meal is ac the breeding compartment 16 by an beef meal adding mechanism 5 ,2.2 which attract the adult female mosquitoes into the breeder tank 2 to lay their eggs.

Complete Specification

is contained within the container which severs food for the hatched larvae until they reach adult stage. They either remain within the container, breeding a new generati of insects also can pass through the opening. The container is positioned with the opening over the tank were the flightless insects either fall off or jump off into the tank thereby becoming food for the fish.

US4328636A titled " Device for insect control and method" discloses a barrier with plurality of holes which attracts the insects to lay their eggs. The barrier serve the dua function for both controlling insect population as well as feeding the insects for predatory creatures such as birds, fish, or the like.

US4002146A titled " Device for insect control and method" discloses an ultraviolet lamp for attracting the insects is hidden in a vertical funnel where the insects cannot s the lamp form a horizontal position. Therefore the insects must fly downwardly to reach the lamp. A fan is located below the lamp to draw air downwardly through the funnel and force the insect to fall into the trap to feed the animals , eg fish. .

CN203505367U titled " Mosquito luring fish feeding device" discloses a mosquito luring lamp installed inside the lamp holder were the injurious insects are attracted and killed through the physical insecticidal method which serves as a high - quality and high-protein natural food for fishes.

From the above prior art search it clearly shows that this present invention is having novel method to control the insect more particularly mosquitoes . This system comprises of mosquito breeder tank 2 which automatically culture mosquito larvae 19 and feed the aquarium fishes periodically. Moreover sliding live insect trap 3 also attract other insects such as house flies 18, fruit flies etc which serves as a food for the aquarium fishes 20. OBJECTIVE OF THE INVENTION:

1. This present invention also focuses on feeding live insects to the fishes by providing sliding insect trap.
2. This present invention also focus on automation of mosquito breeder which automatically culture mosquito larvae and feed the larvae to fishes periodically without

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Patent Search

Invention Title	DRIVING LICENSE AUTHENTICATION USING INTERNET OF THINGS
Publication Number	42/2019
Publication Date	18/10/2019
Publication Type	INA
Application Number	201841038819
Application Filing Date	12/10/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06F19/00; G06F21/44; G16H10/65;

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Abstract:

NA

Complete Specification

A Smart Transportation gives a city the wide range of Applications and Advancement in. Technologies in Real Time. The IoT can assist in integration of communications, control, and Information processing across various transportation systems. Application of the IoT extends to all aspects of transportation systems, i.e. the vehicle, the Infrastructure, and the driver or user. Dynamic interaction between these components of a transport system enables inter and intra vehicular Communication, smart traffic control, smart parking, electronic toll collection Systems, logistic and fleet management, vehicle control, and safety and road Assistance. Using IoT in vehicles could increase safety with a higher counter Puncture level for accidents. The Proposed Idea is based on the concept "Driving License Authentication". User should enter their license number and enroll their fingerprint ID. As many People in Country are not following Rules and Regulations, the number of accidents increase day by day. It's a pathetic condition. As many are driving without proper training, it leads to number of freaky accidents in the country. Hence to regularize the traffic system, this idea of Authenticating driving License has been Proposed. In the proposed system, to start the Vehicle or to Unlock, The User has to be authenticated by system , where the license number and fingerprint id will be checked. If the License number and fingerprint id are valid, the user can unlock vehicle and drive. There is Provision of adding multiple users to system. The information about users will be stored in Database. The system is ease to use as it can be operated without internet connection. Also it reduces workload of traffic police officers.Through this we can restrict users under 18 from Driving any Vehicle.This will reduce rate of fatal accidents and death rate to greater extent. Hence this Proposed System will be a great boon to the society

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Patent Search

Invention Title	HYBRID SOLAR EGG INCUBATOR
Publication Number	48/2018
Publication Date	30/11/2018
Publication Type	INA
Application Number	201841043434
Application Filing Date	19/11/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	F24S10/40

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Abstract:

A Hybrid solar egg incubator (I) discloses a semi circular shape solar heat collector (3) , tubular hatching store house , Solar panel (2) on either sides, battery(9), egg mover sensors , actuators and microcontroller. For reproduction chicken egg incubators are used to hatch the eggs without chickens. Conventional egg incubators are using heat lamp to maintain the temperature inside the hatching store house which increases the usage electricity . Hybrid solar egg incubator comprises of a semi circular shape sol collector (3) coated with black colour which absorbs the heat and increase the temperature inside tubular hatching storage house. Temperature sensor inside the tubular hatching house (21) sense the temperature and maintain the temperature to 37° by rotating the tubular bin position which is done by the stepper motor (12) . The solar pa fixed on the either side of the egg incubator is employed to store the solar power in the battery (9) which is used to heat the tubular hatching store house during night tim cloudy days. Once the battery voltage is low the system automatically switch to main power supply which will maintain the temperature inside the tubular hatching store h The humidity 52 % is maintained by maintaining the water level inside the water storage container (16) which is placed below the heating element bulb (15.1). A fan (10) is spread the temperature evenly inside the tubular hatching storage house. This system save the electric energy when compare to the conventional egg incubators.

Complete Specification

inside the heat transfer hatching tank, the heat transfer conduit disposed to heat uniformly the disc outer wall of the tank. Further, the solar heating structure further comprises a water tank connected to the vacuum tube solar collector which is used to heat up the hatching storage house.
CN202396294U titled " Solar energy incubator " discloses a method to heat up the hatching storage house by using solar energy. This system comprises of solenoid valve water pipe and blower fan. The water tank of the solar energy water heating device is connected with one end of a water pipe. The water pipe is connected with the water tank of the solar energy water heating device via the incubator's case which heats ^hatching storage house.
CN205124700U titled " Solar heating hatching apparatus " discloses a solar heating hatching apparatus, including the hatching storehouse, hatching storehouse top is equipped with solar collector, is connected with the circulating line on solar collector, is equipped with circulating pump and air heat exchanger on the circulating line, is equipped with the new trend system in hatching storehouse top centre position. This system is focuses to minimize
- the electrical energy used for the heating element- - - -■ - - :
From the above prior art search it clearly shows that this present invention is having novel method to heat up the hatching storage house directly by using the semi circu solar heat collector coated in black colour. This system also used solar panel to store the power in the battery which is used during night time and cloudy days.
OBJECTIVE OF THE INVENTION:
1 This present invention mainly focuses on using the solar heat directly to increase* the temperature inside the tubular hatching storage house.
2. This present invention also focuses on using solar power by storing the power generated by the solar panel (2) fixed on either sides of the egg incubator which is usedpower the heating element (15 1) fixed inside the hatching storage house

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Government of India

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Patent Search

Invention Title	SMART WATER QUALITY MONITORING SYSTEM
Publication Number	05/2019
Publication Date	01/02/2019
Publication Type	INA
Application Number	201941002597
Application Filing Date	22/01/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	C02F1/00

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Abstract:

The Smart water quality monitoring system is used to measure the water parameters using Internet of Things and embedded system. Water pollution is one of the biggest for the green globalization. In order to ensure safe supply of drinking water, the quality has to be monitored in real time at different latitude and longitude, spot in stored water tank. The aim of this project is to design a low cost portable system for real time analysis of water quality at various point in a pool of water area. The system consist several sensors to measure the water parameters and update the water purity level periodically in a public cloud and monitored via Android app. The parameters taken ur consideration are temperature, pH, Humidity and turbidity. The sensor measures the different parameter values for every shift/changes in changes in latitude & longitude the help of GSP module. The measured values are taken to core controller. Here, 32-bit MCU is used as a core controller which has inbuilt ESP8266 Wi-Fi module. Finally, th sensor data can be viewed on internet using Wi-Fi system and the mobile application available. Smart water quality measurement system is tested in real time for its nove working. This device provides knowledge database for smart environment and helps in providing sophisticated environment for the people. The Smart water quality monit system helps in monitoring the parameters of pooled water area and also helps in preserving water pollution.

Complete Specification

SMART WATER QUALITY MONITORING SYSTEM

FIELD OF INVENTION

This present invention is related to the field of monitoring the quality of water using Internet of Things (IoT) in particularly chemical engineering, Electronic engineering & Internet of Things that are adapted into a portable boat like structured box.

PREAMBLE OF INVENTION

1. 2040/MUM/2013 "A METHODOLOGY TO DETERMINE INFLUENCE OF
. INITIAL WATER CONTENT AND SPECIMEN THICKNESS ON THE SWCC OF
FINE-GRAINED SOILS" IPC Classification W\&§&)$M&WM^7/0&20131-Publi she'd:
2. 201811032303 "SMART WATER MANAGEMENT AND RE~C YC^fl SYSTEM" IPC Classification F01K27/00- Published./
3. 201811035761 "WATER-BASE LAMINATION ApHESr#;CpMPOSiTIQN" JPC Classification 23/09/2018;,C07C27^6;gP^iish^dJ
4. 2448/CHENP72qf^ Classification 16/03/2012 Cj)2FlM^Gia|itea
5. £7:M0J^/£O 10^ |pER TREATMENT; MElHODCIPC Classificationi$;5/02/201 <&®&WMii>&fMM& C02F37fO ^Granted?

From the above prior art search it clearly shows that this present invention is a unique portable model type system.

OBJECTIVE OF THE INVENTION:

1 This present invention seeks to make a portable boat like structured device which is easily movable across the pool area

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Patent Search

Invention Title	WIRELESS VEHICLE MOVEMENT AND DENSITY MONITORING WITH SUBSTITUTE ROUTE SUGGESTION
Publication Number	07/2019
Publication Date	15/02/2019
Publication Type	INA
Application Number	201941004801
Application Filing Date	07/02/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	G08G1/16

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Abstract:

Traffic in metropolis and in other cities is inevitable; causing travel delays and increased time in reaching destination. The main intention is to develop traffic-less roads. Tra sensed and accordingly alternate roads are suggested to the users, entering the passage. Time is valuable and must not be wasted waiting on the road. Hence our system provide an ultimate solution by traffic rerouting. Traffic status is indicated to the riders and passengers at the start of the passage. Further any manpower required in the r could be reduced, as the system will be fully automated.

Complete Specification

Claims:1. We claim a system that provides an ultimate solution of traffic rerouting by sensing traffic and suggesting alternate roads to riders entering the passage.
2. As mentioned in 1 we claim that the device or system may contain any type of electrical or electronic circuits and any type of processor or controller.
3. As mentioned in 1 we claim that any communication medium or system in the vehicle used for the device or system.
4. As mentioned in 1 we claim that any intelligence and computer algorithms used for the above mentioned process.
5. As mentioned in 1 we claim that any type of power source used for our system or device in the vehicle.
6. As mentioned in 1 we claim that the system or device can have any type of architecture and physical designs.
7. As mentioned in 1 we claim that any type of navigation maps (eg:-Google maps) used in the system is ours.

, Description:FIELD OF THE INVENTION

Everyone owns a vehicle and at least 2 vehicles are in average in an Indian house. When many use a single route in the road, traffic congestion occurs. This traffic density increases when, too many vehicles passes through the same passage, increasing the travelling time. So to reduce travel time, the traffic density at the end of the road is intimated in the beginning of the passage and the alternate route is also suggested thus reducing travel time.

BACKGROUND OF INVENTION

In city life, it is nearly impossible to go to a place at the calculated time because of traffic jams. These traffic jams are results of crowded vehicles at cross roads. When the number of vehicle in the intersection increases the time taken to reach the destination increases. This traffic jam takes time to clear due to the conventional traffic syster The conventional traffic systems has timer based signalling system and a manual rerouting system. However intelligent the human may be, the computers do the same

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Patent Search

Invention Title	FOREST SMOKE DETECTION
Publication Number	08/2019
Publication Date	22/02/2019
Publication Type	INA
Application Number	201941005974
Application Filing Date	15/02/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G08B25/00

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Abstract:

There are not any factors that are predicted to influence the forest fire; hence it is a random phenomenon. This feature makes it tedious process to predict them, but still t many ways to detect them but the only existing system is to detect them by means of remote sensing through satellite. This takes a bit long time and also the victim in the is unaware of the fire. Hence our idea focuses on delivering the information about the fire directly to the victim in the act and thus before it is sensed by the forest departr is known to individual in the play, so that he may take steps accordingly so that he is not caught by the fire until the rescue team arrives. The uniqueness of our ides is that involves the first person itself rather than sending an alarm to the third person to send a rescue team. Our idea sends an alarm to take necessary actions and also informa about any victim caught in the fire, also safeguards the victim by routing away from the fire as well.

Complete Specification

Forest Smoke Detection TECHNICAL FIELD

Our innovation involves clustering the wireless sensor nodes deployed in forest supported by Bluetooth technology and ground forest fire detection pattern is found so the decision for fire extinguishing can be made at right time. BACKGROUND

As the human technology moves further, the risk of natural and man induced catastrophes increase exponentially. One of the most dangerous disasters is fires. In additi to its direct danger on human's lives, fire consumes forests where trees that provide humans with oxygen are destroyed. The risk of fire was increased due to the proble of global warming which appeared in the 1980s. Forest fires represent a constant threat to ecological systems, infrastructures and environmental aspects of a communit Every year, million acres of forests are burnt down. These forest fires have an important impact on the destruction of vegetation, on atmospheric pollution, and directly human lives. In many cases, the authorities do not have any fire alert system to send and receive the warning messages. Therefore, the alerts to the population and to th rescue forces often come too late. This gives rise to the urgent need to detect forest fires as fast as possible. It is a known fact that the forest is considered as one of the most important and indispensable resources, and so the prevention and detection of the forest fire is significant. Due to this forest fires have been researched hotly in worldwide Forest Fire Prevention Departments. Based on the deficiencies of conventional forest fire detection on real time and monitoring accuracy, the wireless senso network technique for forest fire detection is introduced, and ground forest-fire detection pattern is found as the decision-making method for fire-extinguishing or fire prevention by related government departments. A cluster-based wireless sensor network paradigm for forest fire real-time detection is proposed.

OBJECTS OF THE INVENTION

An object of the present disclosure is to provide smart way of fire detection in forest by incorporating self empowered wireless sensor nodes which are supported with R

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Patent Search

Invention Title	FENDER PANEL MOUNTING BRACKET ASSEMBLY FOR A VEHICLE TO REDUCE HEAD INJURY LEVEL OF PEDESTRIAN
Publication Number	20/2019
Publication Date	17/05/2019
Publication Type	INA
Application Number	201941013462
Application Filing Date	03/04/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B60R19/20

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Abstract:

A fender assembly for heavy transportation vehicle to reduce the fatality rate of the pedestrians and the people involved in road accident due to crushing under the whee fender assembly setup as mentioned above is introduced to reduce the fatality rate of the people involved in accidents. In this assembly, a extending slider panel will prev pedestrian and people involved in accidents from crushing and die under the wheel.

Complete Specification

TECHNICAL FIELD

[1] The embodiments herein generally relate to modification of fender models in vehicles and more particularly, to a fender panel mounting bracket assembly for a vehic which not only prevents mud from getting Scattered across the vehicle body but also prevents pedestrians getting crushed by vehicle tyres, thereby reducing fatality leve pedestrian.

BACKGROUND

[2] Improvements in the automobile safety features have steadily reduced injury and death rate of passengers as well as pedestrians during collision event. Studies have shown that injury and death rate of the pedestrians are more when compared with the passenger death rate. In event of a collision (impact) between the heavy vehicle a the pedestrian, the pedestrians get crushed by the vehicle due to the absence of any mechanism which prevents pedestrian from getting into the wheels. So an extendir fender has been designed. Which prevents pedestrian from getting into the wheels. If there are any hard points on the fender panel, the pedestrian will be severely injur which may end fatal due to the rigid structure of the fender panel. Therefore, in order to ensure the safety of the pedestrian, there is a requirement of cushioning effect the fender surface so that the pedestrian survives with less injury.

LITERATURE BACKGROUND

We referred the patent application No. 201621010635 for the invention titled "FENDER ASSEMBLY FOR VEHICLES". In this invention, the fender panel mounting assembly a vehicle to reduce head injury of pedestrian

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Patent Search

Invention Title	UTILIZATION OF IGNEOUS ROCK SLAG IN THE MANUFACTURING OF SINTERED STRUCTURAL PANEL
Publication Number	31/2019
Publication Date	02/08/2019
Publication Type	INA
Application Number	201941027655
Application Filing Date	10/07/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C04B33/28

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Abstract:

Quarrying of igneous rocks generate large quantity of waste slags and muds from the cutting tools. Due to its demand and unavailability, igneous rocks are costly when co to other type of rocks. These demand and unavailability are due to the formation process, igneous rocks are formed by solidification of hot molten magma. Igneous rocks classified into two intrusive and extrusive rocks, intrusive rocks include Granite and extrusive include Basalt. Recovering the waste slag and muds from the quarry and use raw material for manufacturing Sintered Structural Parts could be a response to demand.

Complete Specification

1) Sintered panel can be prepared by applying heat and pressure on composite Plutonic and volcanic material, such as granite, basalt, dolerite.
2) In claim (1), the panel formation can be done with sedimentary materials.
3) In claim(l), the panel formation can be done with metamorphic materials
4) The orientation can be square, Rectangle, Hexagonal, Octagonal depends on the point of application.
5) The application is not only limited for the production of structural panels, but it can be claimed, when it is used in the formation of Bricks, and Pavement blocks.
6) In claim (1), sintering method can be adopted in the formation of structural Beams and Columns due to its Durability property.
7) It can also be employed in the formation of Fire Proofing materials.
8) In claim (5) & (6), sintering method can be used in leak-proof areas,
9) Hybrid materials can be made of sintered material products and concrete materials can also be employed as per claim(l).
10) In claim (1), this process can be implemented in the manufacturing of sintered tiles.

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Patent Search

Invention Title	WATER BASED COOLING CUM FIRE EXTINGUISHER SYSTEM FOR MOTOR VEHICLES
Publication Number	13/2019
Publication Date	29/03/2019
Publication Type	INA
Application Number	201941011375
Application Filing Date	24/03/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	GENERAL ENGINEERING
Classification (IPC)	A62C3/07

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Abstract:

During the car parking in a open area produce heat and toxic gases. Inhaling the same will make the passenger to diseased persons. The mildest symptoms of inhaling the chemicals are nausea and headaches, which many people might not even think is related to their new car. Also getting drinking water throughout the journey is a addition utilization. To overcome these problems we propose a water container over the top of the motor vehicle. It provides cooling to the vehicle and also provides drinking wate Comparing with the air conditioner in the vehicle it will provide a better heat resistance and reduce fuel utilization. For another purpose, we may utilize the same model as extinguisher for small fires.

Complete Specification

Claims:We claim,

1. A proposed model that have a direct cooling using the liquids and the provision of build in drinking water system at any area of the vehicle.
2. From claim 1 the liquids i.e. non fuels used for cooling the vehicle.
3. From claim 1 provision of drinking water as in built with a vehicle.
4. From claim 2 and 3, the vehicle i.e. any top closed vehicles run by the fuels
5. From claim 4 usage of non corrosive materials for the provision of model

, Description:Our invention explains about the cooling of the interiors of the vehicle where the passengers used to sit and also the cooling element used is water. Here v serves for two purposes. It cools the interiors when the vehicle is parked under the sun as well as it's used for drinking purpose too. The above said invention is about th engine cooling alone but we concentrated on cooling of interiors and drinking purpose. When it gets hot outside, the plastics used to design the interiors release some o these toxic fumes and start to get stirred up. That's because exposure to heat speeds up off gassing, and so does exposure to ultraviolet light from the sun's rays. If the c occupants start to inhale that gas it may lead to health issues. The mildest symptoms of inhaling these chemicals are nausea and headaches, which many people might r even think is related to their new car. Over time, though, the prolonged exposure can cause problems with the central nervous system, hormones, memory loss and can among other scare factors. The best way to cope with off gassing is to keep the car well ventilated, both when it's new and in the summer. So our invention is a solution f keeping the temperature cool and protects the interior from off gassing.

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

(http://ipindia.nic.in/inc

Patent Search

Invention Title	AUTOMATIC TYRE INFLATION SYSTEM FOR BI AND MULTI-AXLED AUTOMOBILES BY EMPLOYING ROLLER FOLLOWER MECHANISM AND RECIPROCATING PUMP
Publication Number	37/2019`
Publication Date	13/09/2019
Publication Type	INA
Application Number	201941035447
Application Filing Date	03/09/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	F02B63/04

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Abstract:

A technique for retrofitting a bi and multi-axled automobile with an automated tyre inflation system is presented in this work. This mechanism is capable of restoring the c pressure to the tyres during driving operation. When air pressure in the wheel of a vehicle decreases below a pre-determined limit, a single piston compressor comes into that will be actuated by roller follower mechanism, with the piston top acting as a roller and a metallic disc with a rubber belt acting as cam path. Thus the automatic tire in system works using the momentum of the wheels to drive the piston pump upon actuation of the roller follower mechanism. And the whole set up being electronically con with a microprocessor. With the recent oil price hikes and growing concern of environmental issues, this system addresses a potential improvement in gas mileage; tire we reduction; and an increase in handling and tire performance in diverse conditions. Keywords—reciprocating compressor, roller follower mechanism, and microprocessor.

Complete Specification

AUTOMATIC TYRE INFLATION SYSTEM FOR Bl AND MULTI- AXLED AUTOMOBILES BY EMPLOYING ROLLER FOLLOWER MECHANISM AND RECIPROCATING PUMP FIELD OF INVENTION

This invention relates generally to a system and method for tire inflation and, more particularly, to a system and method for automatically maintaining pressure in ,. vehicular.tir.es. durina operation.

BACKGROUND OF INVENTION

It is well known that driving on underinflated tires can adversely affect a vehicle's performance, and thus it is a primary safety concern. Vehicles with underinflated tires have been shown to have handling problems that result in significant numbers of high Way fatalities and injuries. Under-inflation is also a primary cause of early tire breakdown and poor tread life, which shortens tire life, resulting in increased | maintenance costs.

Therefore, automatically pressurizing the tire would be an advantage by keep it at its ideal inflation pressure. By using the rotation of the tire and creating a pumping act a few inventors have already tried automatically inflating tires. These include U.S. Pat. Nos. 4,154,279 and 5,556,489 and 5,591,281 and 5,667,606 and 5,975,174. These designs are less practical as they depend on mechanisms located both inside the tire and outside the tire, this practice would be expensive and prone to breakdown due the extreme temperature and vibration conditions that most tires go through during use. Another way is to use a battery powered air pump attached to the tire in any manner and that would maintain the tire pressure when the sensor indicates a low pressure. Such a design was patented by Loewe et al in U.S. Pat. No. 5,928,444—now expired. However, there are deficiencies in the Loewe design. The pump and battery mechanism is housed within the wheel cover. This means that the wheel cover must

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Page last updated on: 26/06/2019

Patent Search

Invention Title	HEAD PIECE PROTECTOR
Publication Number	44/2019
Publication Date	01/11/2019
Publication Type	INA
Application Number	201941042614
Application Filing Date	21/10/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	TEXTILE
Classification (IPC)	A42B3/00

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Abstract:

In our country road accidents are the happens for every 4 minutes, so the safety measurements are developing in too smart with effective technology. In the evolution of the advanced safety equipment"s had resulted in 3% reduced fatality from 2016 to 2019. A smart apparatus is inevitable for decreasing road accidents that leads to deaths. So our invention is protecting the life of peoples handling the two wheeler, it is also based on the safety measurement, and the present invention of mostly used in the two wheelers helmets and our invention is highly specified to use in the highways it is based on the accident alert system in the two wheelers head protectors it is highly applicable to use in the highways for two wheelers it is based on the smart helmet system for the accident rescue process. It will alert the hospital for the ambulance service and it will alert the police control room for intimating the accident, in case , the hospitals is so far from the accident place it will also share the message to the nearest toll gate ?it will also share the location of the accident for the immediate response for-the rescue process. This technology that we had implemented in our helmet will be further improved in the future.

Complete Specification

WHEELER VECHILE TO AVOID AND REPORT ACCIDENTS - The invention based on the smart helmet system to ensure the wearing of helmet from the rider it will report the accident.(PUBLISHED)
201941001384 - SMART AND SAFETY HELMET KIT -the invention is based on the smart and safety measurement kit, it alerts the user with the sensors (alcoholsensor) through the GSM module to alert the user and track the application with the android applications.(PUBLISHED)
2019410324837—RAIN INTENSITY AWARE SELF- ACTIVATING WIPER ENABLED SMART HELMET ~ the invention is based on the rain intensity aware self activating wiper enabled system in the rainy season the wiper will enable automatic and it will clean the droplets with the sensors and wiper with the servo motor.(PUBLISHED)
201921000815 - HELMET AID SYSTEM: ACCIDENTAL INFORMATION DETECTION SYSTEM— the device will be able to capture the accidental status of the rider through the shock waves reported to the social media (what app) of the
Rider and hospital and to the Google duplex system using Al based robotic calling system..(PUBLISHED)
20191012480—IOT BASED SMART HELMET—present invention relate the internet of thing based smart helmet .the main object of the proposed invention is Wi-Fi and sensors for engine control system with accident alert system it also have alcohol detection .it is very helpful for women safety it provide the monitoring drowsiness of the driver and speed control of the vehicles .(PUBLISHED)

In our country road accidents are the happens regularly. So our invention is protecting the life of people in the two wheeler handling people for the safety .The present invention, is based on the automatic smart helmet system for the rescue process in the highways to the hospital and it will intimate to the hospital control room , neighbor

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Patent Search

Invention Title	SYSTEM FOR IMPLEMENTATION OF KALI MAKING MACHINE
Publication Number	42/2019
Publication Date	18/10/2019
Publication Type	INA
Application Number	201941039176
Application Filing Date	27/09/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	FOOD
Classification (IPC)	G06N20/00

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Abstract:

Kali is a one of the ancient and popular food in Indian rural areas which plays a vital role for a healthy life. It has rich in fibre which helps with weight loss and diabetes and it contains calcium, good carbs, ammino acids as well as vitamin D. But the preparation process of kali is very tedious and it will take a large amount of time. In order to overcome above mentioned problems, an automatic kali making machine is proposed. Initially, the presence of flour and water is checked. Based on that required amount of water is provided into vessel by using timer. A separate control panel is developed to monitor the temperature level of water. After a certain level of temperature is attained, the required amount of ragi flour fed into vessel. The single phase capacitor starts the induction motor, which is used to rotate the wings to mix the flour and water continuously. By using control panel, The whole process is continuously monitored and finally, the food (ragi madde or kali) is prepared in the form of semi-solid. This machine helps to cook the kali in an easy way and it will be deserved in future as major role.

Complete Specification

Traditionally, Ragimudde (finger millet ball) is being consumed since many centuries in India, particularly in south India. Due to the low glycemic index of the ragi and rich in nutrients like calcium, iron and dietary fiber, it is considered as wonder food, this is one of the best foods for all cross section of the society from small children to old people, hardworking labourers to the executives working in offices, from poor people to rich people
This present invention is related to the field of food processing which is based on Argo Foods.

1. 201711020065"SYSTEM FOR CONTROLLING WATER VENDING MACHINE".-GRANTED
2. 20191701187l"LINEAR-MOTOR CONVEYOR SYSTEM'-PUBLISHED

3. 5033/DELNP/2012""AN INDUCTION HEATING SYSTEM AND A METHOD OF CONTROLLING INDUCTION HEATING"- GRANTED
4. 5309/CHENP/2014- "CONTROL DEVICE FOR ALTERNATING CURRENT ROTARY MACHINE"- GRANTED
5. 201941030491" KALI MAKER"- PUBLISHED
6. 201717037362," METHODS AND APPARATUSES FOR CONTROLLING THE HARVEST
CYCLE OF AN ICE MAKER USING A HARVEST SENSOR AND A TEMPERATURE SENSOR"-
PUBL1SHED
OBIECTIVE OF THE INVENTION:

View Application Status

Patent Search

Invention Title	MECHANICALLY ENHANCED DURABLE GEOPOLYMER CONCRETE WITH MAGNETIZED WATER AND RECYCLED COARSE AGGREGAT
Publication Number	44/2019
Publication Date	01/11/2019
Publication Type	INA
Application Number	201941043290
Application Filing Date	24/10/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C04B18/16

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Abstract:

Corrosion of reinforcement is a major problem in today"s reinforced concrete structures. Attainment of early strength of concrete is important in today"s scenario to facilitate early stripping of formwork and some special cases. Magnetized water is a good solution for the above mentioned problems. This water has it"s molecules activated by passing it through a magnet. This water increases the compressive strength of concrete more than 20%, reduces corrosion to a certain extent by reducing the amount of dissolved salts in water. Flowabilility of concrete is increased. The internal arrangement of water molecules is" modified to increase its surface area without changing its chemical properties. This procedure can be used in Geopolymer concrete to improve strength and durability of concrete. In addition to this, oxalic acid is used as an accelerator to attain early strength.

Complete Specification

Magnetized water is used to reduce hardness in water and make it potable. The internal arrangement of water molecules is modified to increase its surface area without changing its chemical properties, so that the usage of water can be reduced. The water has reduced salt contents and hardness and the compressive strength of the concrete is enhanced. Magnetized water is prepared by circulating the water with a V* Hp motor in a circuit consisting of neodymium with magnetising properties for 1-2 hours as in fig 1. The water is stored in a tank and then it is passed through a magnet by using a motor . The flow of water and its velocity is controlled by using an auto transformer to regulate the voltage to control the speed of water flow. The water coming out of the magnet is let out into the same tank. The water is recirculated a number of times to attain the magnetic nature.
Geo-polymer concrete is a new trend in concrete to eliminate cement. Usually the hardening of concrete is bought about by the formation of C-S-H gel. This reaction is brought about by reaction of calcium oxide in cement with water. But in geopolymer since there is no cement involved the reaction is between fly ash and alkali activators like sodium hydroxide and sodium silicate . It leads to the formation of complex sialate molecules which brings about the strength. Curing can be done at ambient temperature. Oxalic acid is used as accelerator to facilitate early strength gain. It eliminates the use of cement. The resulting concrete is flowable and attains strength quickly.

The magnet used for this purpose is neodymium magnet. It consists of 6 neodymium boron magnets assembled in Halbach Array. It creates a strong magnetic flux that creates a magnetic field that activates the molecules in water. The magnetic used is of strength 1 Tesla.
The magnetized water thus obtained is used in making Sodium Hydroxide and Sodium Silicate activator solution to strengthen the mix

View Application Status

Patent Search

Invention Title	ASH BRICK
Publication Number	43/2019
Publication Date	25/10/2019
Publication Type	INA
Application Number	201941042113
Application Filing Date	17/10/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C04B28/18

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Abstract:

ABSTRACT Bricks plays a major role in framed and non-framed structure, in framed structures bricks are employed as a filler and in non-framed structures it is employed to transfer the load. These are often used as an alternative for different stones with large weight and are generally used in the construction of buildings. The process of manufacturing of bricks from clay involves preparation of clay by natural weathering process, moulding and then drying and burning of bricks. Due to high demand on fine aggregate, an attempt has been made to study ash waste as a partial and total replacement for fine aggregate and binder. A detailed investigation is carried out for Ordinary Portland cement and Portland pozzolana cement with various proportion of ash waste. Ash waste is a by - product or waste product of burning wood working operation.

Complete Specification

- We claim that,

[1]. Ash bricks can be manufactured using industrial waste ash mixed or replaced as a partial replacement of cement, fine aggregate and other additive used as a replacement of cementitious material.
[2]. As per claim 1, bricks can be made with different types of ashes, including incinerated waste ash, agricultural waste ash, paper industry waste ash, etc.,
[3]. Ash bricks are made with light weight materials, there by converting the brick as light weight brick; which can be employed in light weight constructions.
[4]. Ash brick manufacturing process can be employed in the manufacturing process of building or structural elements as per claim [I].
[5]. Ash brick manufacturing employs the use of fly ash, rice husk ash, bottom ash, pond ash, or any other ash produced during incineration process as per claim [1] & [2].
[6]. As per claim 3 & 4, structural elements like beam, column, footing, slabs can be manufactured.
[7]. As per claim 1, blocks used in the construction industry such as filler block, paver block, hollow blocks, cooling blocks, permeability blocks can be manufactured.
[8]. Ashes can be employed as a composite construction activities such as Geopolymer bricks as per claim 1, 4 &7.

View Application Status

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Indian Design Application Information Retrieval System

Detail	
APPLICATION NUMBER	296608
CBR NUMBER	18103
CBR DATE	11/08/2017 11:53:38
NAME OF ARTICLE	HAIR GRABBER SYSTEM
NAME OF APPLICANT	AJITH B SINGH
FER DATE	07/09/2017
FILED AT	Kolkata

Application Status

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Detail	
APPLICATION NUMBER	297756
CBR NUMBER	20423
CBR DATE	21/09/2017 18:49:33
NAME OF ARTICLE	KITCHEN SINK DRAINER 1
NAME OF APPLICANT	AJITH.B.SINGH
FER DATE	11/10/2017
FILED AT	Kolkata

Application Status

Technical Examination at Amended Application.

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Application Number Search Format
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Detail	
APPLICATION NUMBER	297755
CBR NUMBER	20422
CBR DATE	21/09/2017 18:46:50
NAME OF ARTICLE	KITCHEN SINK DRAINER 2
NAME OF APPLICANT	AJITH.B.SINGH
FER DATE	09/10/2017
FILED AT	Kolkata

Application Status

Cases Awaiting Approval of Amended Application.

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Detail	
APPLICATION NUMBER	301886
CBR NUMBER	1909
CBR DATE	31/01/2018 19:35:24
NAME OF ARTICLE	TOOTH BRUSH
NAME OF APPLICANT	GOWTHAM SUBRAMANIAN
FER DATE	15/02/2018
FILED AT	Kolkata

Application Status
Cases Awaiting Approval of Amended Application.

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Indian Design Application Information Retrieval System

Detail	
APPLICATION NUMBER	301887
CBR NUMBER	1910
CBR DATE	31/01/2018 19:38:33
NAME OF ARTICLE	BINDI (FOREHEAD DECORATION) MAKING MACHINE
NAME OF APPLICANT	PRASANTH JAGADEESAN VENKAT
FER DATE	26/02/2018
FILED AT	Kolkata

Application Status
Examination Report has been Generated ,Case is Waiting for Examination Report Reply.

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Detail	
APPLICATION NUMBER	303211
CBR NUMBER	3972
CBR DATE	05/03/2018 19:34:55
NAME OF ARTICLE	INVERTER CEILING FAN
NAME OF APPLICANT	YAVOO BENAZIR
FER DATE	19/03/2018
FILED AT	Kolkata

Application Status

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Indian Design Application Information Retrieval System

Detail	
APPLICATION NUMBER	304353
CBR NUMBER	5871
CBR DATE	04/04/2018 12:57:31
NAME OF ARTICLE	MULTIPURPOSE PAN FOR COOKING
NAME OF APPLICANT	GEETHA PARAMASIVAM,
FER DATE	12/04/2018
FILED AT	Kolkata

Application Status

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Indian Design Application Information Retrieval System

Detail	
APPLICATION NUMBER	309012
CBR NUMBER	14498
CBR DATE	23/08/2018 11:03:58
NAME OF ARTICLE	Cost Effective Design of Water Flow Indicator
NAME OF APPLICANT	Dr. G. R. Kanagachidambaresan
FER DATE	03/09/2018
FILED AT	Kolkata

Application Status
Examination Report has been Generated ,Case is Waiting for Examination Report Reply.

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Indian Design Application Information Retrieval System

Detail	
APPLICATION NUMBER	305963
CBR NUMBER	8999
CBR DATE	24/05/2018 17:02:24
NAME OF ARTICLE	BURN THE SANITARY WASTE IN AN ECO-FRIENDLY MANNER WITH NO ADDITIONAL COST
NAME OF APPLICANT	DR. S. HEMA
FER DATE	03/07/2018
FILED AT	Kolkata

Application Status

Technical Examination at Amended Application.

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Application Number Search Format
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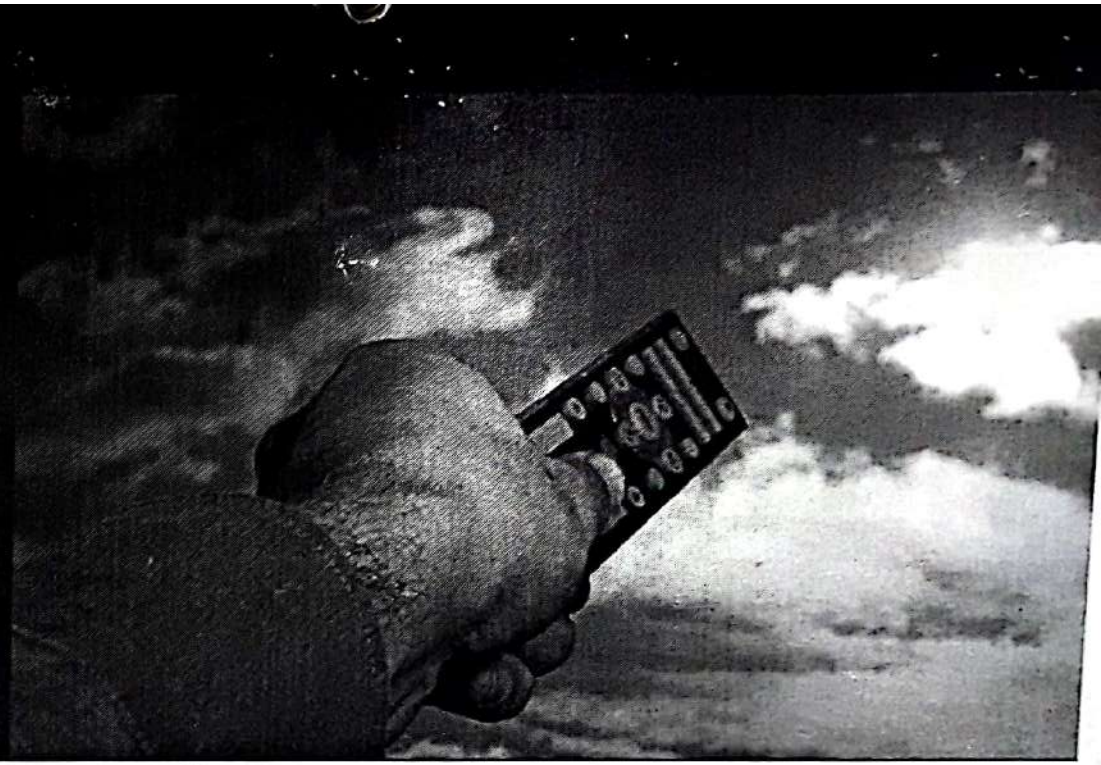
This book can give you an introduction to controllers in instrumentation which can support you take a step ahead in controller knowledge. Controilers play a major role in automation of a process. The controllers which are used for instrumentation are listed and briefed in this book. Some industrial applications with these controllers and tuning methods are also described which can shed some light for knowing the methodologies used for industrial control.

Ajith.B.Singh is currently pursuing his research in the field of process control and instrumentation. He has many number of publications including conferences, journals and a book. His favorite field in academics is process control and system identification. Most of his works include identification and modeling of various industrial processes.

978-3-659-27744-3

An Overview with theoretical approach

Singh, Jothi, Kaushik



Ajith B. Singh
Anie Selva Jothi
S. Kaushik

Controllers for Instrumentation

An Overview with theoretical approach

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ENNAI-600 034.

CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
14833	ORDINARY APPLICATION	3954/CHE/2014	WETLAND SYSTEM FOR TREATING INDUSTRIAL WASTEWATER AND METHOD THEREOF	5808
	E-101/40694/2014-CHE	3954/CHE/2014	Correspondence	0
	E-2/4017/2014-CHE	3954/CHE/2014	Form2	0
	E-3/4509/2014-CHE	3954/CHE/2014	Form3	0
	E-45/1883/2014-CHE	3954/CHE/2014	Form26	0
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