

(54) Title of the invention : AUTOMATIC BATTERY CHARGING IN ELECTRIC CAR FROM WIND TURBINE AND SOLAR PANEL

<p>(51) International classification :B60L0008000000, B60K0016000000, B64D0027240000, B60L0053510000, B60L0050100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. SABARINATHAN C Address of Applicant :Professor & Head / Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Mr.YOGARAJAJ Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>3)Mr. NARESH MALLIREDDY Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>4)Mr. MUJIBURRAHMAN K Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>5)SURYA PRASATH M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)MOHAMMED AASHIK R Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)MAHESHWARAN R Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)SIVAGURU D Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p>
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(57) Abstract :

ANNEXURE 3 An electric vehicle, also called an EV, uses one or more electric motors or traction moiors for propulsion. An electric vehicle may be powered through a collector system by electricity from off- vehicle sources, or may be self-contained with a battery, solar panels or an electric generator to convert fuel to electricity. EVs include, but are not limited to, road and rail vehicles, surface and underwater vessels, electric aircraft and electric spacecraft. This work is mainly done for reducing the duration of the charging the vehicle and we have done a performance study and fabricated a turbine for charging the battery in motion. The wind turbine generates power to the battery by the movement of the vehicle. The solar panel is used as an additional source to charge the battery when the vehicle is in stationary position. The mild steel helps to withstand the air pressure so that the formation of cracks in the turbine is avoided.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028498 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : EASILY DETACHABLE SUPPORTING WHEELS FOR DIFFERENTLY ABLE PERSONS TWO WHEELER

(51) International classification :A61G0005120000, G08C0017000000, A61G0005000000, A47K0003000000, A63B0071000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
 ANNEXURE III In this project, our efforts are aimed at reducing the weight of the side wheels and components while also increasing fuel efficiency. The main goal is to help impaired people gain confidence and enhance their psychological and financial well-being, as well as that of their families. People with disabilities in India confront numerous obstacles and limited opportunities in almost every aspect of their lives. They must rely on someone for their fundamental necessities and day-to-day activities. Education, transportation, food, and other areas are examples. For their needs, they require self-transportation. A single two-wheeler is used by a typical middle-class family of two or more members. A second two-wheeler with permanent disability attachments is tough to come by. The goal of this research is to suggest a solution to this problem. The design and construction of these attachments were primarily aimed for those with disabilities and the elderly. It is built around a standard vehicle (IC or Electric) that can be attached and uninstalled in a few simple steps. Our main goals are to design and fabricate side attachments that are conveniently attachable and removable, as well as to use sophisticated locking mechanisms at a low cost. Also, to provide high comfort and ergonomics for impaired individuals to gain easy access.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028492 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : LIFI BASED SMART VEHICLES

<p>(51) International classification :B60K0028060000, H04B0010116000, G01S0015931000, B60Q0009000000, G01S0015080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. SABARINATHAN C Address of Applicant :Professor & Head / Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Mr.YOGARAJA J Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>3)Mr. RAGU S Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>4)Mr.PRAKASH.R.S Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>5)AKSHAY PODUVATTIL Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)ANUJITH ANIL Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)MUHAMMAD JASIM N Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)MUHAMMAD MUSTHAFA K Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p>
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(57) Abstract :

ANNEXURE-III We know there are plenty of solutions that have been applied to reducing the rate of road accidents like designing stringent rules and regulations. Police intervention is needed to check whether the rider is drunk driving or not. When the rider consumes alcohol means they may drive over speed. This will also cause accidents. The proposed system is carried out using LIFT technology. The LIFI system has been connected to each vehicle. That LIFI system is used to transmit and receive information from a vehicle. Here, in this proposed system we have used various sensors like an eye blink sensor, ultrasonic sensor, Mems sensor, and an alcohol sensor. These sensors have been connected with a microcontroller to each vehicle. If the rider consumes alcohol then the gas sensor senses it and gives that information to the nearest vehicle going in front of it through LIFI. Because while drunk and driving the rider may ride over speed and may hit the other vehicles which results in accidents. The rider should follow a particular distance with another vehicle. When the vehicle is close to the next vehicle then the ultrasonic sensor detects it and transmits that information through LIFI. When the ultrasonic sensor detects the minimum distance then the system will automatically reduce the speed of the engine. This will help to reduce accidents. The fall detection sensor senses the axis of the car, when there is a little in the axis, it sends a message. Here, we used one more sensor called an eye blink sensor that detects the drowsiness of a rider which could alert the driver before a mishap happens. We have connected an alarm system for that, here we have used a liquid crystal display to monitor all these parameters.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028507 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : MOBILE CASE WITH CHARGER HOLDER AND STAND

(51) International classification :B60R0001000000, B60R0021203000, H01Q0005000000, E21B0043117000, H01L0027115510

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Although it was helpful to charge the mobile convertible in any places, it helps for the shorter length cable charges. It also used to keep mobile Comfort to watch online classes for students, it prevents the back side camera from scratching.

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : EXTRACTION OF TOC GAS FROM CAR CABIN

(51) International classification :B60H0001000000, G11B0027320000, C02F0103040000, G01N0033180000, B60H0001320000

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

(87) International Publication No : NA

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

(62) Divisional to Application Number :NA
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(57) Abstract :
 Although TVOC gas is like a slow poison, we humans don't ever care about it, and we just turn on the car and AC. Through the flow of air from AC, TVOC gas spreads throughout the cabin. Inhaling this gas causes lung irritation, headache, eye irritation and also affects the pregnant ladies and children. So, we are inventing the sensor which detects the harmful gases and shows lower and higher percentage of gases. Less than 0.3 mg/m3 is considered as low TVOC concentration level. If it is above that point, the sensor automatically gets on and shuts off the windows and turns on the AC and lets out the TVOC gas through the blower.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028517 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : SANITOBOT-A COVID ERA COMPANION FOR SANITATION

(51) International classification :H04L0012715000, G06F0016360000, F24S0023700000, H01L0031054000, B63B0035000000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Sanitobol has some unique merits viz. Partially autonomous, fully programmed and hence chances of errors are reduced. Because of which man power and municipality budget spent of environmental hygiene were reduced the by a large margin. As mentioned earlier, it is semi-autonomous and hence it is less expensive than fully autonomous system. Also; easy fault diagnosis can be done, which results in reduced utility costs. Since it reduces man power for cleaning works, it is a safe alternate to maintain environmental hygiene without exposing humans to the pandemic or any unhygienic surrounding, this also serves as a cost cutting measure to the municipality. This project can be helpful to many of them both in small scale and industry levelled purposes.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028496 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : SMART ANTITHEFT SYSTEM USING GPS TRACKING

<p>(51) International classification :G01C0021200000, G08G0001000000, B60R0025330000, G07C0005000000, H04W0004029000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. SABARINATHAN C Address of Applicant :Professor & Head / Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Mr. NARESH MALLIREDDY Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>3)Mr. RAGU S Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>4)Mr.NAVEENRAJ D Address of Applicant :Assistant Professor/ Auto, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>5)HARIKISHAN P Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)SUDHARSON Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)SALMAN FARIS J M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)PUGALENTHI B Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p>
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(57) Abstract :

ANNEXURE 3 Vehicle tracking system makes better fleet management and which in turn brings large profits. Better scheduling or route planning can enable you handle larger jobs loads within a particular time. Vehicle tracking both in case of personal as well as business purpose improves safety and security, communication medium, performance monitoring and increases productivity. Whenever accident is alerted the paramedics are reached to the particular location to increase the chances of life. This device invention is much more useful for the accidents occurred in deserted places and midnights. This vehicle tracking and accident alert feature plays much more important role in day to day life in future.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028510 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : SOLAR POWERED SECURITY LIGHTING SYSTEM

(51) International classification :G09G0003200000, G01J0001420000, G02B0005180000, F16P0003140000, G06F0001323400

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

(87) International Publication No : NA

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

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

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(57) Abstract :

The Automatic Road Reflector system is designed to replace this currently being used safety device. The proposed system is designed to sense the intensity of ambient light and work accordingly. At the time of low light, the system senses the ambient light has been decreased and it lights up the reflector. On the other hand, the system will turn itself into power saving mode at the time of bright light and will save energy.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241029154 A

(19) INDIA

(22) Date of filing of Application :20/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : STATIC AND DYNAMIC WIRELESS CHARGING METHOD FOR FUTURE ELECTRICAL VEHICLE

(51) International classification :H04W0084120000, G09G0003360000, H04N0007173000,
B60W0050140000, H05B0041392000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The controller is used to the only for a drive in the PWM generation. The generation is used will supply is connected to the PWM operation and then DC (or) AC supply is drive for PWM generate. The drive is move to the drive operation will be used. The controller is a gate pulse generates and to here operate will have been switching function. Here is using to the level of 12V supply is obtained the controller high level of switching level is preferred. Controller can to the process of PWM level they also will declare to the function which is operates to grid the control, which is most prefer to controller will they can AC grid function provide. It has drive to source of the level switch in the function of a high level obtained. Presently, several Wi-Fi strength techniques are being pursued. It is beneficial to categorize those efforts in phrases in their underlying power-switch mechanism to recognize implications for variety, variation, and efficiency.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028522 A

(19) INDIA

(22) Date of filing of Application :18/05/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : WIRELESS FAST DC CHARGING FOR NEW ENERGY VEHICLES

(51) International classification :H02J0007020000, H02J0050100000, H02J0007000000, H02J0050800000, B60L0053120000

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

(87) International Publication No : NA

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

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

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(57) Abstract :

Annexure 3 Other solutions can coexist with electric charging stations in a world where charging electric automobiles is a critical component of accelerating the energy transition. Wireless charging is one such solution. With a few exceptions, wireless automobile charging is an improved version of Smartphone charging. "With wireless inductive charging, an electric vehicle [EV] may charge itself without the use of cords." "Wireless charging necessitates the integration of an additional charger into the car. Autonomous charging is frequently portrayed as a convenient or even automated charging method. Indeed, autonomous vehicles would benefit from some form of automated charging, and wireless charging appears to be a viable option.

No. of Pages : 5 No. of Claims : 3