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**PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH**

RAVET, PUNE 412101

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## CELEBRATING AZADI KA AMRIT MAHOTSAV

# 75 PATENTS IN A SINGLE DAY

## Filed '75 Patents in a Single Day' on the Name of the Institute on the Occasion of Science Day

**28th February 2022**

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Email: pccoer.ravet@gmail.com

# OUR INSPIRATION



**Late. Shri. Shankarrao B. Patil**
**Founder President,**
**Pimpri Chinchwad Education Trust**



**Late. Smt. Lilatai Shankarrao Patil**
**Ex President,**
**Pimpri Chinchwad Education Trust**

Hon'ble Late Shri. Shankarrao Bajirao Patil was a founder, chairman of the Pimpri Chinchwad Education Trust constituted in 1990 with a devoted team of trustees.

Shri Shankarrao Bajirao Patil came from a prosperous agriculture family and has thriving achievements in the field of education, social welfare, politics and cooperative activities. He was counted as the most renowned, experienced respectable person and man of fame and honor in the state of Maharashtra for quite a long time. He was minister for Labour, Gramin-Vikas, Co-operation, Dairy development and Finance in Government of Maharashtra. He was also a Member of Parliament twice. He was founder, chairman of number of educational institutes and chairman of sugar factory. Owing to his inert desire and drive, the trust could establish and start Polytechnic and Engineering colleges which have achieved remarkable success in a short period of time and has a dignified place in the minds of people. Social commitment, innovative and visionary approach, creativity and the urge to maintain quality is the secret of this success.

The trust is successfully running educational institutions starting from a Polytechnic since 1990 with credible reputation & glorious record in academics, sports, cultural & industrial circle.

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Pimpri Chinchwad Education Trust (PCET) was established by Late Shri. S. B. Patil in the year 1990 with a vision to provide value added educational platform to society in multiple dimensions right from Nursery to Doctoral programs in all professional streams enabling all our students to achieve Freedom through Education.

Situated at a very approachable location near Akurdi Railway Station, Nigdi, Pune, PCET is a well-established and time tested brand in Education since 1990. The trust successfully runs many quality educational institutions in the fields of engineering, management, architecture and science. These are spread over an area of more than 10 acres and a community more than 5000 students. The complete campus is well equipped with all latest infrastructural facilities, Sports facilities, spacious lawn and hostel facility for boys and girls SBPPS begins to operate at Ravet, Pune, from the current academic year 2012-13 with classes from Nursery to Std. IV.

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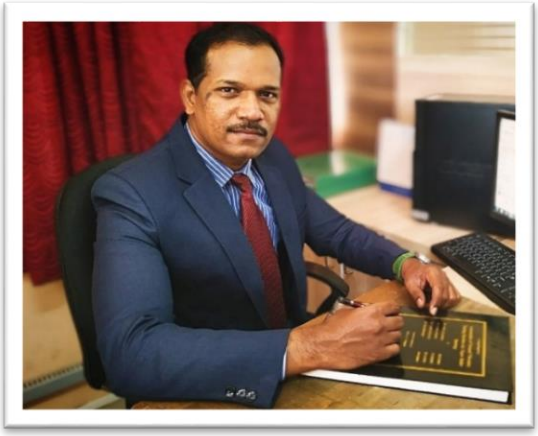


**Prof. Dr. Harish Tiwari**
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India today stands as world's third largest economic power, its economy growing at around 8%, Indian Entrepreneurs emerging as global entrepreneurs, Indians figuring increasingly in the list of the richest persons in the world, India's knowledge power making India as a preferred destination for out sourcing knowledge services from India, India fast emerging as a destination for world class R and D Centers and Innovation hub. Young friends, these are the signs of even a brighter tomorrow for India and its people. You must, therefore, be highly excited to make your own contributions to the growth and development of India of your dream. At PCCOER, we have a tradition of nurturing leadership qualities alongside developing capabilities to challenge the state of art technologies. This we do by inspiring you to involve into a whole lot of innovative projects being pursued by the inspired student community under the guidance of their faculty mentors.

Let you empower yourself with the Wings of Knowledge and Power of Innovation and with this Empowerment imbibe an attitude akin to a positive and proactive thinking, caring concern for men and nature and above all, an eagerness to serve and excel in our chosen domain of activity throughout your lifetime.

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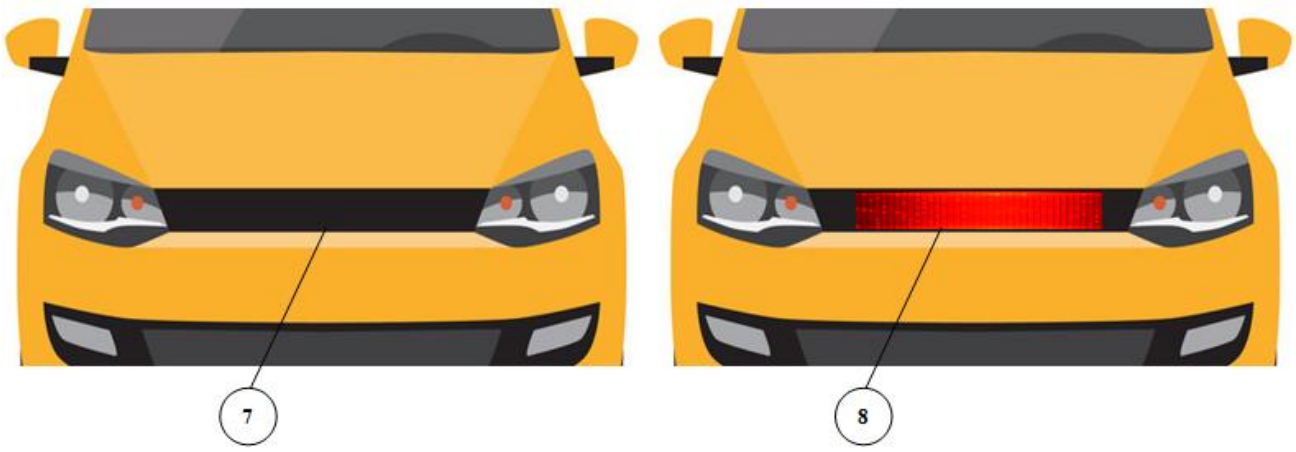
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# P01 ACCINDICATOR-VEHICLE ACCELERATION INDICATOR FOR ROAD CROSSING PEDESTRIANS

**Patent Application No. - 202221010508**

**ABSTRACT**

The invention relates to an idea of designing acceleration indicators for vehicles to warn off the road crossing pedestrians. Many pedestrians are killed or severely injured in road accidents while crossing a road. This happens particularly on a sparingly crowded road where the vehicles are appearing intermittently and observing the road to be empty, accelerate on the road. Pedestrian's mind can perceive relative speed of the vehicle but cannot judge the relative acceleration and its effect on the position of the onrushing vehicle. This is the main reason of the accidents with road crossing pedestrians. An invention in the form of an idea is proposed here, wherein, vehicles may be equipped with warning red colored LEDs which will automatically be switched on when the vehicle is increasing its velocity i.e. accelerating and will remain switched off when the vehicle is decelerating or moving at constant speed. The glowing LEDs will warn the pedestrian that the vehicle will be approaching them sooner than they expect and that they should not cross the road at that point of time.




**Applicants :** 1. PCCOER, 2. Prof. Dr. S. S. SAWARKAR

P01

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**E-mail: mumbai-patent@nic.in**
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| 1 | E-106/526/2022/MUM | 202221010508 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010508 | TEMP/E-1/10010/2022-MUM | 1600 | 5051 | FORM 1 | Full | ACCINDICATOR-VEHICLE ACCELERATION INDICATOR FOR ROAD CROSSING PEDESTRIANS |

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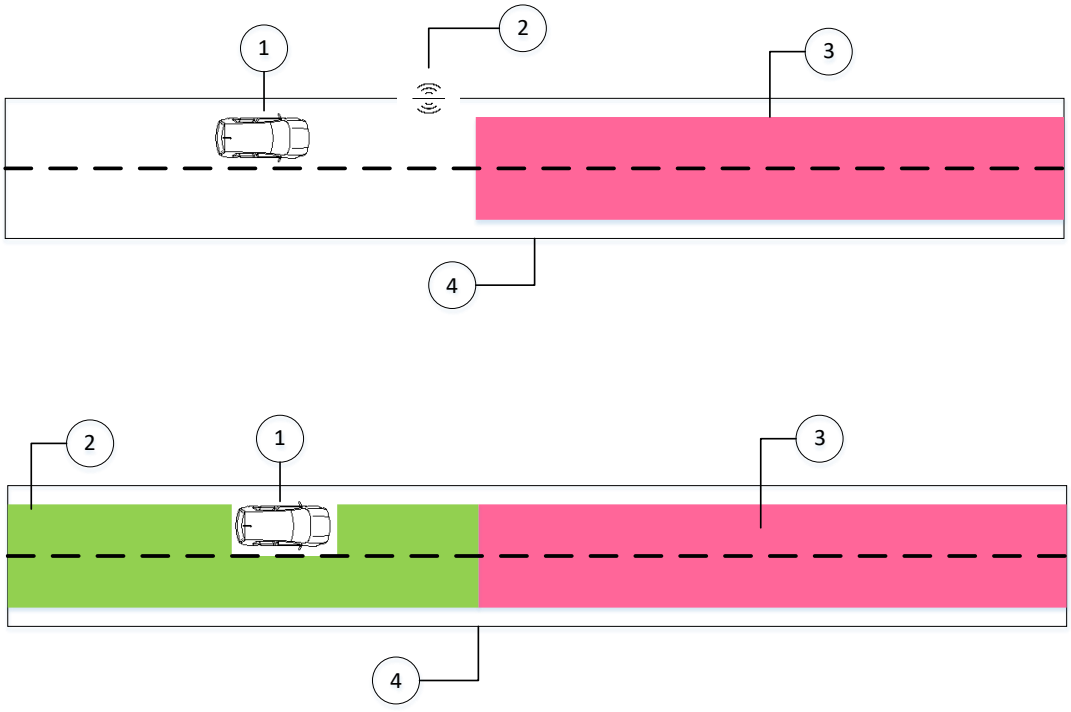
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# P02 AUTOMATED SPEED LIMIT ALERT SYSTEM

**Patent Application No. - 202221010507**

**ABSTRACT**

This innovation deals with alert system to vehicles travelling over certain patch of the road with indication towards Speed Limit of that Zone. This system also uses digital display system showing the Speed limit within the vehicle.



P02

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|---|---|---|---|---|---|---|---|
| 1 | 202221010507 | TEMP/E-1/10009/2022-MUM | 1600 | 5049 | FORM 1 | Full | Automated Speed Limit Alert System |
| 2 | E-106/525/2022/MUM | 202221010507 | 0 | -1 | FORM28 | Full | |

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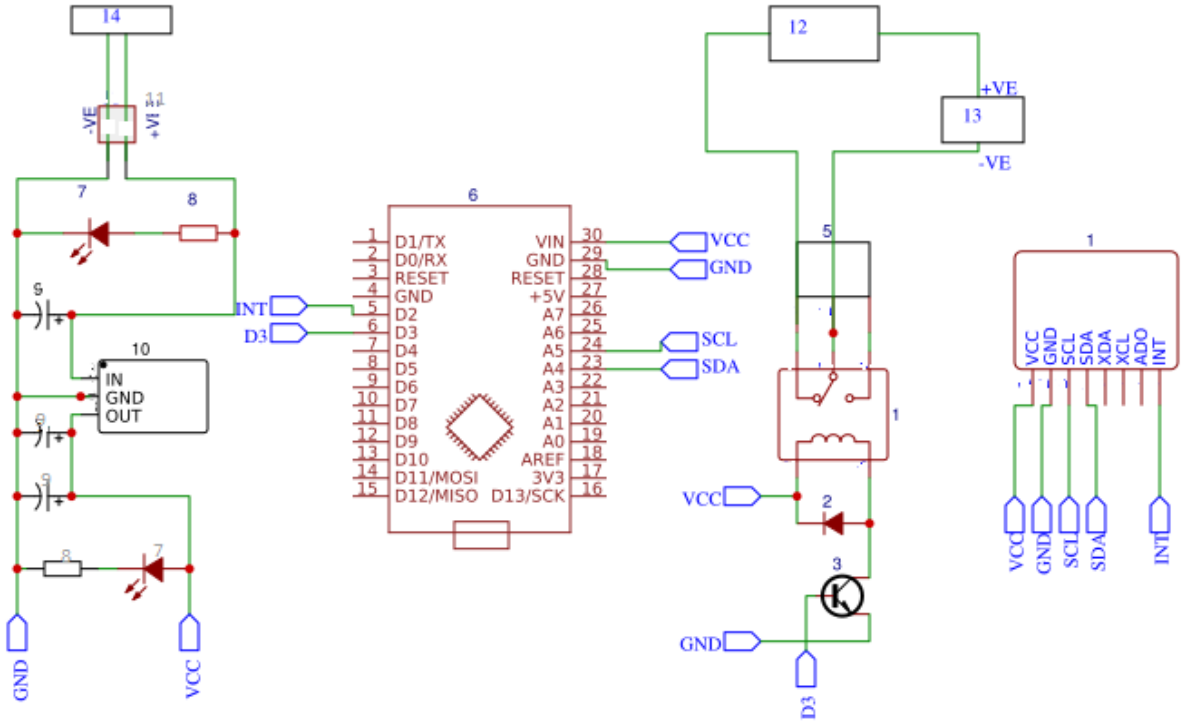
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# P03 EMERGENCY SHUTDOWN OF IGNITION SYSTEM FOR BIKE

**Patent Application No. - 202221010562**

**ABSTRACT**

The automatic vehicle fall and ignition switching off system detect the vehicle fall by the gyro sensor by calculating the angle of vehicle this data is given as input to the microcontroller the microcontroller filters the data and calculates the angle if the angle is greater than 70 degree and less than 300 degree then it makes the digital pin D3 on microcontroller high which is connected to the base of the transistor the transistor collector end is connected to the positive end of the diode which is connected to the relay as there is high output on the digital pin of the microcontroller the relay gets activated as the relay is connected to the ignition switch it gets switch off and the engine turns off, and if the angle calculated by the microcontroller with respect to the data received from the gyro sensor MPU6050(4) is less than 70 degree and greater than 300 degree the D3 pin on microcontroller is low the relay stays in active on state and the ignition stays ON.



P03

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| 1 | 202221010562 | TEMP/E-1/11958/2022-MUM | 1600 | 5098 | FORM 1 | Full | EMERGENCY SHUTDOWN OF IGNITION SYSTEM FOR BIKE |
| 2 | E-106/545/2022/MUM | 202221010562 | 0 | -1 | FORM28 | Full | |

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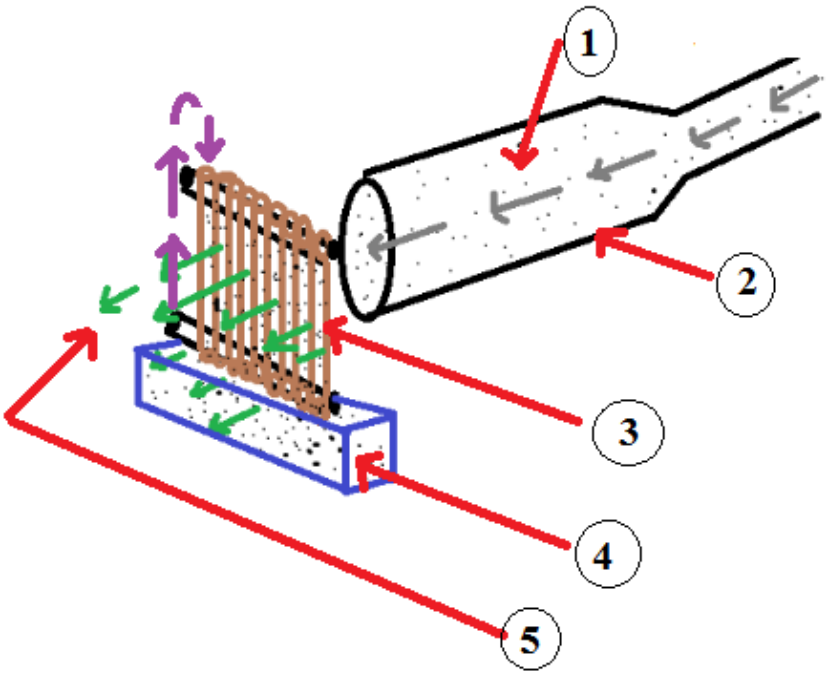
# P04 AUTOMOBILE SILENCER WITH ROTATING WET-CANVAS WATER CURTAIN

**Patent Application No. - 202221010543**

**ABSTRACT**

This innovation is based on mounting of rotating wet canvas water curtain system nearby exhaust of silencer in which the carbon particulates through the emission of vehicle get deposited on wet canvas water curtain and it get carried and settle down in the water stored in the small container.

Thus using this system it can reduce air pollution due to emission of commercial diesel engine vehicles.



P04

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| 1 | 202221010543 | TEMP/E-1/11993/2022-MUM | 1600 | 5080 | FORM 1 | Full | AUTOMOBILE SILENCER WITH ROTATING WET-CANVAS WATER CURTAIN |
| 2 | E-106/529/2022/MUM | 202221010543 | 0 | -1 | FORM28 | Full | |

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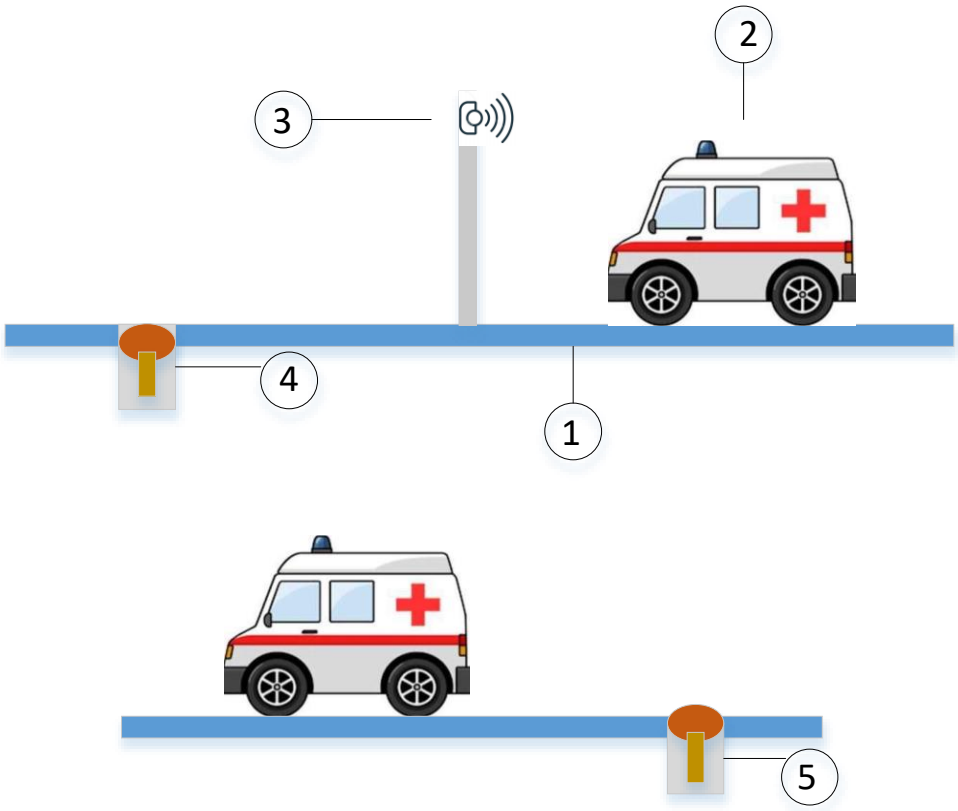
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# P05 COLLAPSIBLE SPEED BREAKERS FOR EMERGENCY VEHICLES

**Patent Application No. - 202221010583**

**ABSTRACT**

This innovation is based on providing an alternate way of providing special type of Speed breakers which are designed only for emergency vehicles like Fire trucks and Ambulances. The sensor based system is adopted which captures the sound waves from siren the vehicles and activate the system which automatically collapse or level the speed breaker to the ground level for small interval of time. Once the vehicle pass over it, the system will automatically make the speed breaker to its original position.



P05

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| 1 | E-106/561/2022/MUM | 202221010583 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010583 | TEMP/E-1/12307/2022-MUM | 1600 | 5119 | FORM 1 | Full | COLLAPSIBLE SPEED BREAKERS FOR EMERGENCY VEHICLES |

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| N-0000928321 | Online Bank Transfer | 2802220010063 | 1600.00 | 1475001020000001 |

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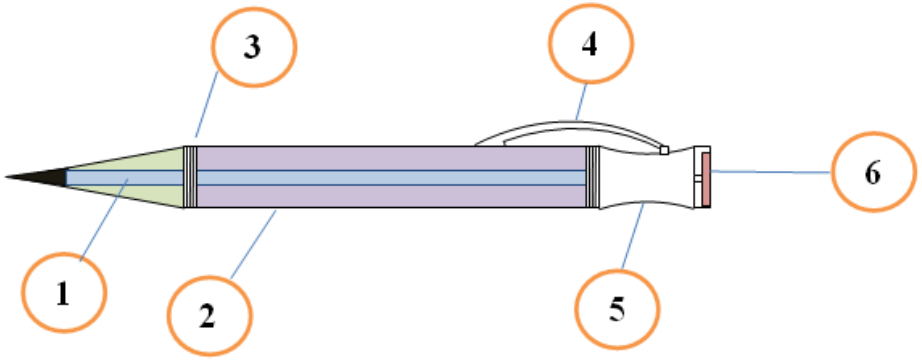
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# P06 PEN WITH HAND SANITIZER GEL DISPENSER

**Patent Application No. - 202221010727**

**ABSTRACT**

This innovation is based on providing a simultaneous Pen and the hand sanitizer gel dispenser operation, in this a Pen can be used for writing and at the same time Hand sanitizing operation can also be done.



P06

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010727 | TEMP/E-1/12275/2022-MUM | 1600 | 5190 | FORM 1 | Full | CUSTOMIZED PEN WITH HAND SANITIZER GEL DISPENSER |
| 2 | E-106/594/2022/MUM | 202221010727 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928352 | Online Bank Transfer | 2802220010782 | 1600.00 | 1475001020000001 |

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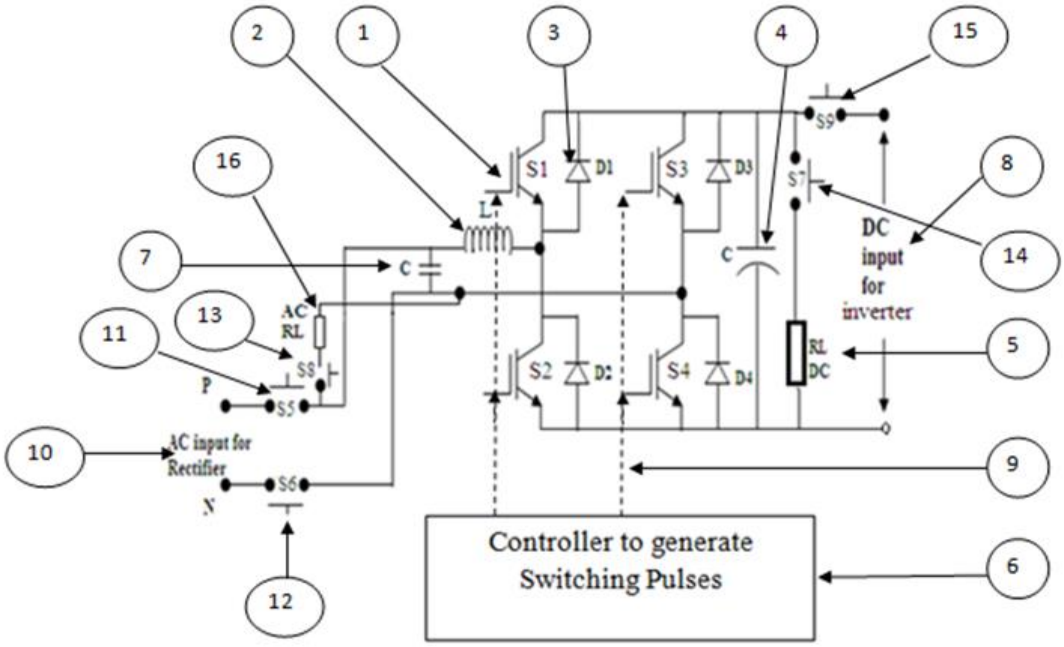
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# P07 BI-DIRECTIONAL AC-DC-AC CONVERTER FOR HYBRID/ELECTRIC VEHICLE

**Patent Application No. - 202221010544**

**ABSTRACT**

Embodiments of present invention are to design a bi-directional power converter for hybrid vehicle application. The converter comprises a plurality single phase AC/DC converter or direct AC frequency converter connected between an AC supply line and DC link capacitor. On the other side same converter converts DC supply to the AC it means it acts as an inverter to feed AC supply to drive the appliances. The bi-directional converter studied under two switching techniques both are implemented digitally. The parameters like power factor, current harmonics, total harmonic distortions (THDs), bi-directional operation and voltage regulation are maintained within the limits to enhance the performance of the proposed converter. The proposed control strategy is bridgeless, transformer-less and output current sensor-less and consists of only two Bi-directional IGBTs and two diodes. The voltage regulation is achieved by a simple voltage divider to communicate to a controller to control the duty cycles of pulse width modulated signal.



P07

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010544 | TEMP/E-1/10983/2022-MUM | 1600 | 5081 | FORM 1 | Full | Bi-Directional AC-DC-AC converter for Hybrid/Electric Vehicle |
| 2 | E-106/530/2022/MUM | 202221010544 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928243 | Online Bank Transfer | 2802220008330 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600

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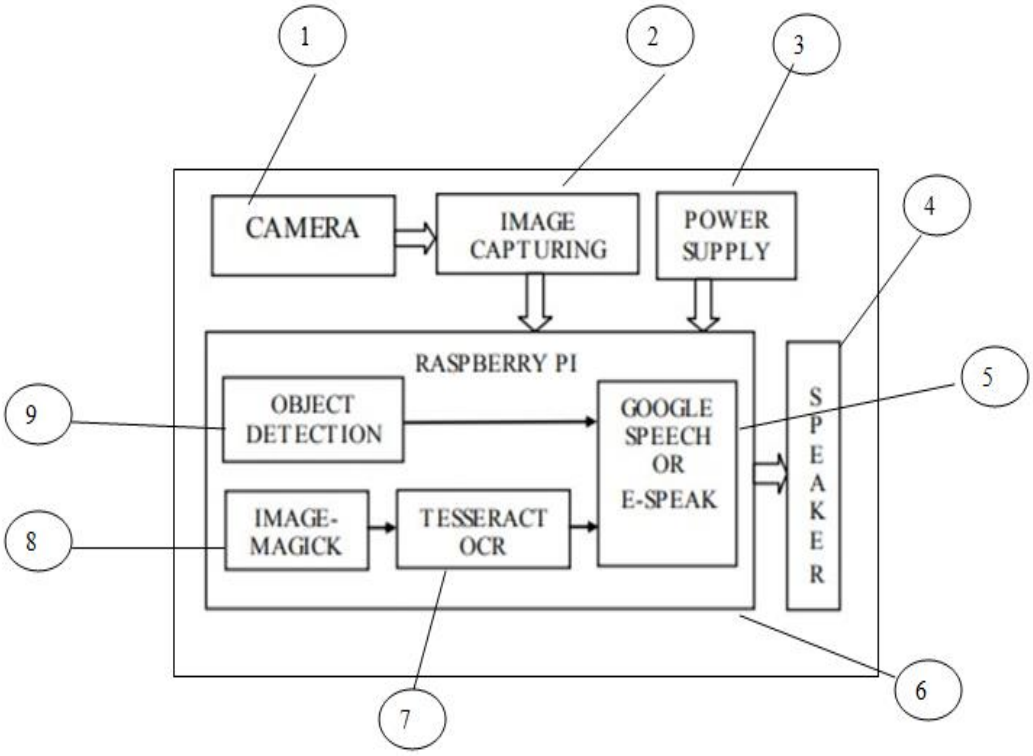
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# P08 THIRD EYE FOR BLIND-USING RASPBERRY PI FOR VISUALLY IMPAIRED

**Patent Application No. - 202221010572**

**ABSTRACT**

Self-determination is the building methodology in achieving thoughts, intentions in life. Unsighted persons find themselves vindicated to go out individually. There are millions of blind people in this world who are always in need of helping hands. Third eye provides the visually impaired community a new way to visualize the world by explaining them about their surroundings. With the headway of innovation, we are ignorant about the trouble's blind finds in their everyday life. Consequently, it is a major test for them to head over to better places unquestionably. The current techniques have ended up being inefficient as they have a lot of limitations. Here, we have put forward a text read out system for visually impaired people.



P08

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010572 | TEMP/E-1/10996/2022-MUM | 1600 | 5106 | FORM 1 | Full | THIRD EYE FOR BLIND-USING RASPBERRY PI FOR VISUALLY IMPAIRED |
| 2 | E-106/551/2022/MUM | 202221010572 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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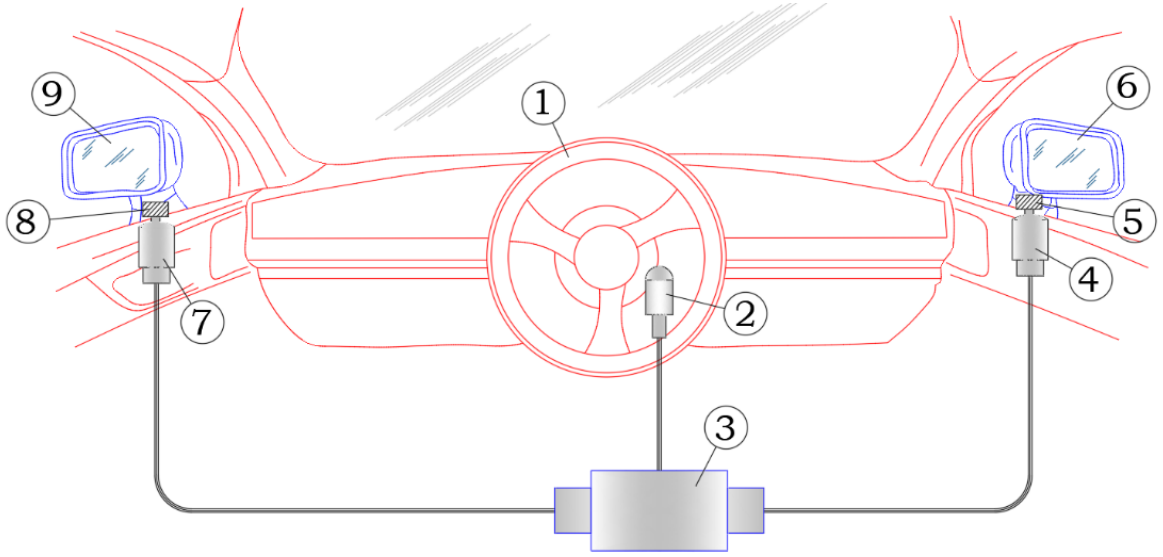
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# P09 AUTOMATIC ALTERATION OF REARVIEW SIDE MIRROR POSITION TO ELIMINATE BLIND ANGLE ON TURNING

**Patent Application No. - 202221010547**

**ABSTRACT**

The present invention relates generally to an automotive rearview side mirror assembly, and, to an automatic alteration of mirror position mechanism, allowing a precise adjustment of the mirror on turning of a vehicle to eliminate the blind angle. An automatic adjustment mechanism as per the present invention comprises, a steering wheel angular position sensor, an electronic control unit to process the signal and make a decision and sending signal to corresponding actuator which in turn with the help of gear train reposition the mirror to eliminate the blind/dead angle for driver's rear view in rearview side mirrors. As the vehicle turn is over the mirror reposition to its initial set position for staring driving.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010547 | TEMP/E-1/11598/2022-MUM | 1600 | 5084 | FORM 1 | Full | AUTOMATIC ALTERATION OF REARVIEW SIDE MIRROR POSITION TO ELIMINATE BLIND ANGLE ON TURNING |
| 2 | E-106/532/2022/MUM | 202221010547 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928257 | Online Bank Transfer | 2802220008690 | 1600.00 | 1475001020000001 |

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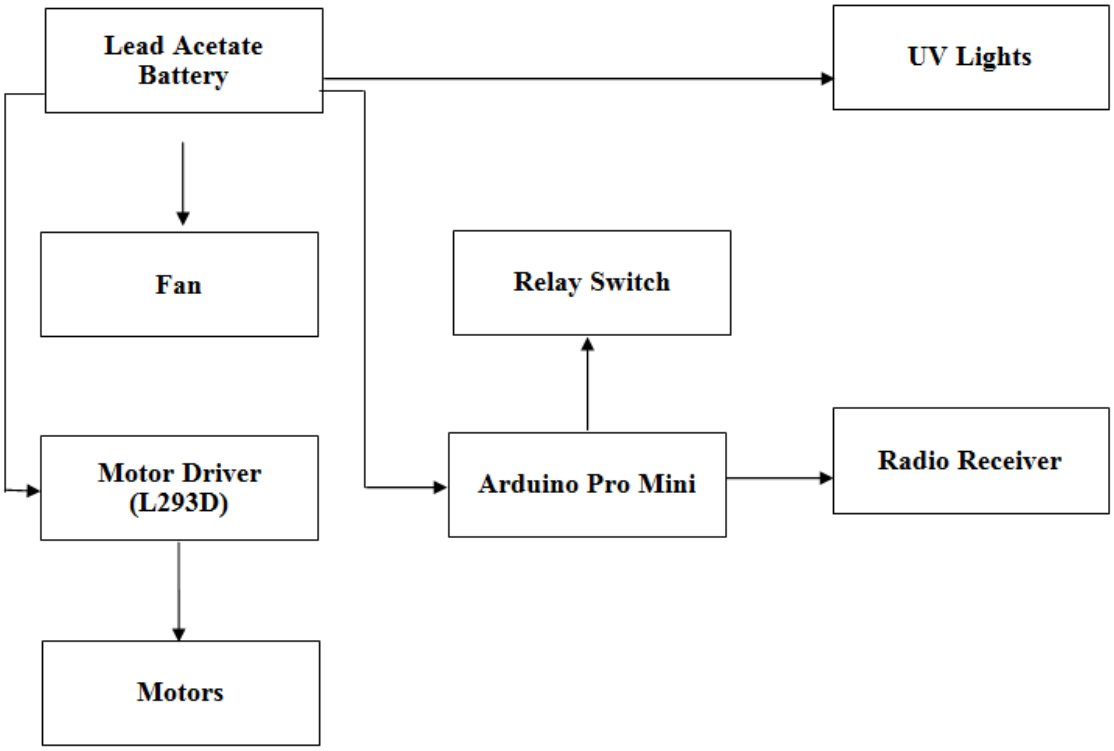
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# P10 AUTOMOTIVE SURFACE DISINFECTANT ROBOT WITH UV LIGHT ALONG WITH DUST CLEANING AND SANITIZATION

**Patent Application No. - 202221010556**

**ABSTRACT**

In this current scenario of Covid–19, Robots are in use for several applications where humans can be at risk of exposure. So, we have built an Ultraviolet Sanitization and Sterilization Robot that will be able to detect and kill the viruses while cleaning the germs and dust in the hospitals, schools/ colleges, Multinational companies, etc. Nowadays, sanitization and sterilization are very important. Sanitization and sterilization have become an indistinguishable part of our day to day life. Sterilization is possible by human hands but involving completely in the process can be deadly. Humans can't directly involve in the sterilization process physically, because there is a chance of getting the deadly virus from the contaminated space. We have developed this project using an Arduino, Ultrasonic sensors, and LEDs.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | 202221010556 | TEMP/E-1/10744/2022-MUM | 1600 | 5092 | FORM 1 | Full | AUTOMOTIVE SURFACE DISINFECTANT ROBOT WITH UV LIGHT ALONG WITH DUST CLEANING AND SANITIZATION |
| 2 | E-106/540/2022/MUM | 202221010556 | 0 | -1 | FORM28 | Full | |

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Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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# P11 AUTO SERVICING ALARM FOR WATER PURIFIER CARTRIDGES/CANDLES

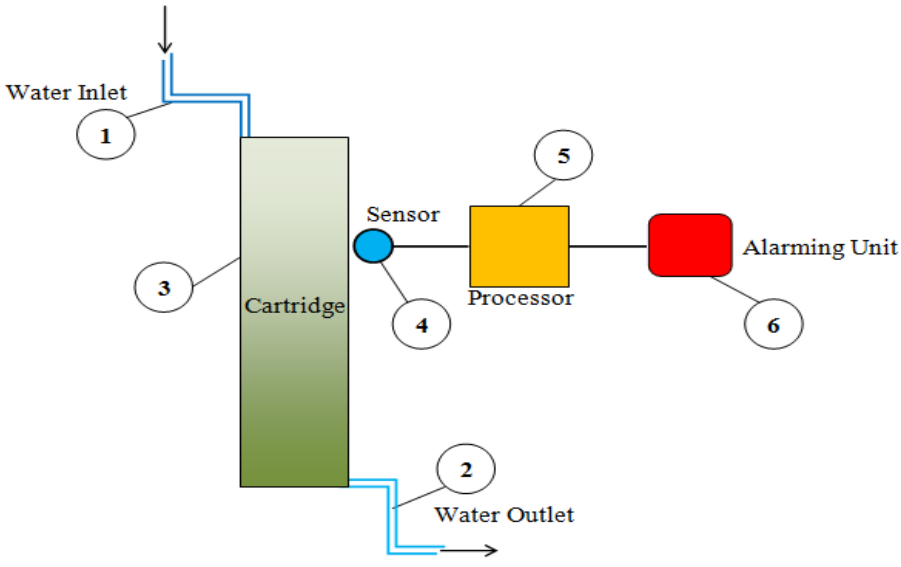
**Patent Application No. - 202221010661**

**ABSTRACT**

Powered water purifier is an every household commodity today. It typically uses an electrically operated cartridge system. As the water passes through it, the cartridge segregates the living and non-living solids by way of UV light and series of filters. Over a period of time, in the process of segregating contaminating solids from water, the cartridge gets loaded with deposits of solids and its efficiency goes down. However the user has no access to the cartridge and has no means of knowing its status.

The idea proposed herein is to have an automated sensing and alarming system that will make the user alert about the status of the cartridge and to initiate the process of servicing of the same by calling an expert in the field. With the help of this invention, the user will come to know about the necessity of servicing the cartridge on time, thereby avoiding inefficient use of the purifier, wastage of electricity and facing health hazards.

A simple auto sensing mechanism, which will sense the deposit level around the cartridge and once the pre-set level of deposit around the cartridge is reached, will initiate an alarm, thereby alerting the user about the need of servicing of the cartridge. The mechanism will require assembly of connectivity to the power supply, an appropriate sensing device, a pre-set processor unit to specify desired contamination deposit level around the cartridge and an alarming unit sounding buzzer and blinking LED.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | E-106/586/2022/MUM | 202221010661 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010661 | TEMP/E-1/11482/2022-MUM | 1600 | 5165 | FORM 1 | Full | AUTO SERVICING ALARM FOR WATER PURIFIER CARTRIDGES/CANDLES |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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Amount in Words: Rupees One Thousand Six Hundred Only

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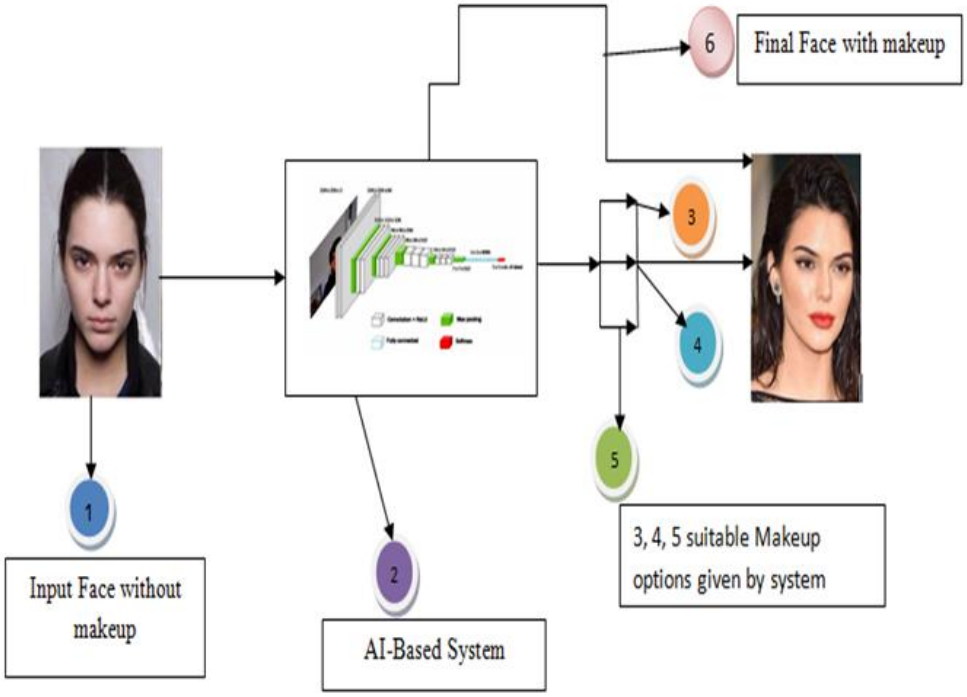
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# P12 AUTOMATED AI MAKEUP MACHINE

**Patent Application No. - 202221010757**

**ABSTRACT**

People are beautiful no matter if they put makeup on or not. In recent years, makeup has become one of the most important tools for human being. As we need to share our day with our friends in our stories everywhere. When you have makeup on, you are always ready to get clicked for an OOTD picture or a selfie you always look ready for the camera. They enjoy wearing makeup and take pride in their skills. What makeup does is that it adds to your beauty. It also helps to hide the little flaws and even out your complexion. Despite of all this human being doesn't have adequate knowledge of wearing makeup and also its time consuming. All the time you spend blending all the makeup to make your makeup look like your second skin is not an easy job. Doing perfect makeup is not feasible for every human being as it need professional artist or professional guidance which cost too high. If also with less knowledge makeup is applied to face it can damage the skin. so the proposed idea will help to perform the tedious task of makeup easily in less time and without human intervention with intelligently.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010757 | TEMP/E-1/11449/2022-MUM | 1600 | 5212 | FORM 1 | Full | Automated AI Makeup Machine |
| 2 | E-106/601/2022/MUM | 202221010757 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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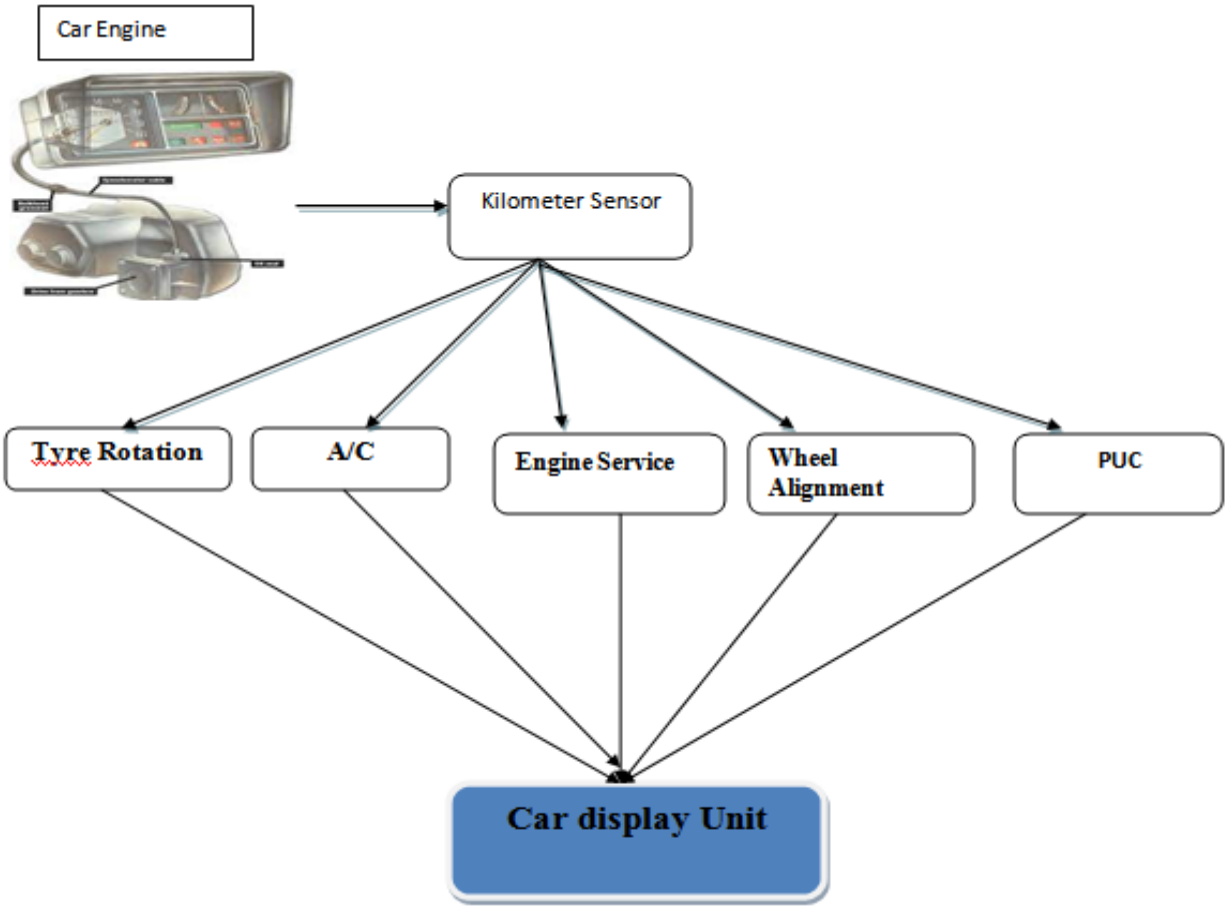
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# P13 PROACTIVE AUTO SERVICING ALARM FOR 4-WHEELERS

**Patent Application No. - 202221010627**

**ABSTRACT**

Buying a car gives an ecstatic feeling, be it a brand-new car or a second-hand model. New cars show high performance in the first few years of their lifespan, on the other hand a second-hand car needs to have cared for a bit more than the new one. One way of showing the necessary love to your four-wheeler is through regular maintenance. So regular servicing is essential due to the following benefits: Car Will Not Overheat, Car's Mileage Will Not Drop With Age, Cylinder Head And Spark Plugs Are Well Maintained, Regular Car Maintenance Keeps You On The Right Track, Increases The Lifespan Of Your Car, Maintains Performance And Fuel Economy, Car Is Regularly Checked For Safety. So, auto servicing alarm will help the society to maintain good health of the car and enjoying rides with any hurdles.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | E-106/580/2022/MUM | 202221010627 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010627 | TEMP/E-1/11419/2022-MUM | 1600 | 5148 | FORM 1 | Full | PROACTIVE AUTO SERVICING ALARM FOR 4-WHEELERS |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928379 | Online Bank Transfer | 2802220011320 | 1600.00 | 1475001020000001 |

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Amount in Words: Rupees One Thousand Six Hundred Only

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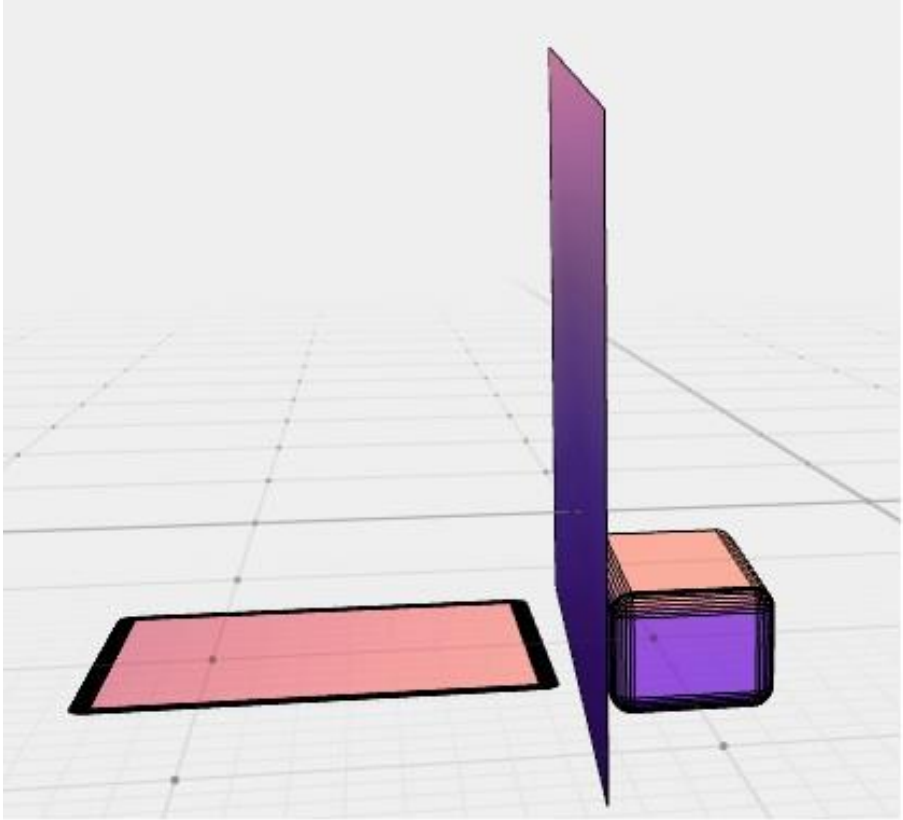
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# P14 MODIFIED LAPTOP WITH LESS HEAT AT BASE SIDE

**Patent Application No. - 202221010604**

**ABSTRACT**

Currently the laptop contains battery at base, so it get heated after more usage of laptop. To reduce the heat due to the battery, the position of battery is shifted to back of screen.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | E-106/571/2022/MUM | 202221010604 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010604 | TEMP/E-1/11388/2022-MUM | 1600 | 5134 | FORM 1 | Full | Modified Laptop with less heat at base side |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928350 | Online Bank Transfer | 2802220010772 | 1600.00 | 1475001020000001 |

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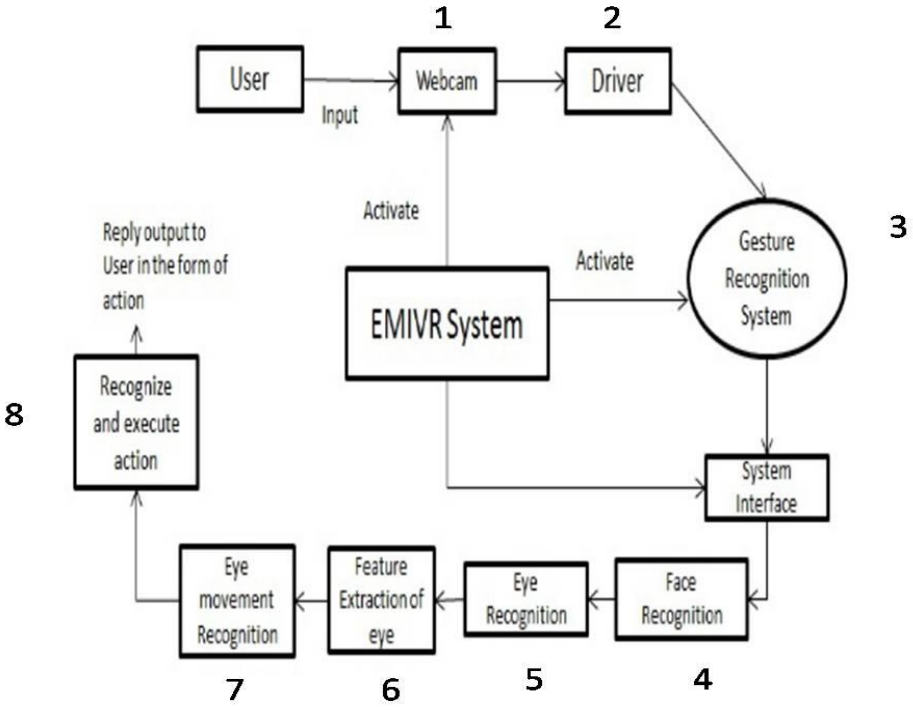
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# P15 EYE MOVEMENT AND INTERACTIVE VOICE RESPONSE BASED SMART COMPUTER

**Patent Application No. - 202221010595**

**ABSTRACT**

Man has five senses representing natural windows of communication between him and outside world. Talking and Eye Tracking is the best means of communication existing. Speech recognition and eyeball position can be applied in computer devices to control the useful software to facilate people in their life. Handicapped people suffer the difficulty of using computers themselves and to spend some basic needs and necessities, usually need another person to help them in that. This assistance is achieved through the design of special system for controlling computer using voice commands and eye ball tracking. Voice recognition allows you to rapidly write text just by speaking to your computer. Accuracy varies depending on your accent, how fast you speak, surrounding noise levels and subject nature. Eye tracking is a technique to measure either the point of gaze (where someone is gazing) or the motion of an eye relative to the head. Eye tracking technology has applications in industry and research in visual systems psychology assistive technologies marketing as an input device for human computer interaction and in product and website design



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**[See Rule 22(1)]**

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|---|---|---|---|---|---|---|---|
| 1 | 202221010595 | TEMP/E-1/11376/2022-MUM | 1600 | 5126 | FORM 1 | Full | EYE MOVEMENT AND INTERACTIVE VOICE RESPONSE BASED SMART COMPUTER |
| 2 | E-106/567/2022/MUM | 202221010595 | 0 | -1 | FORM28 | Full | |

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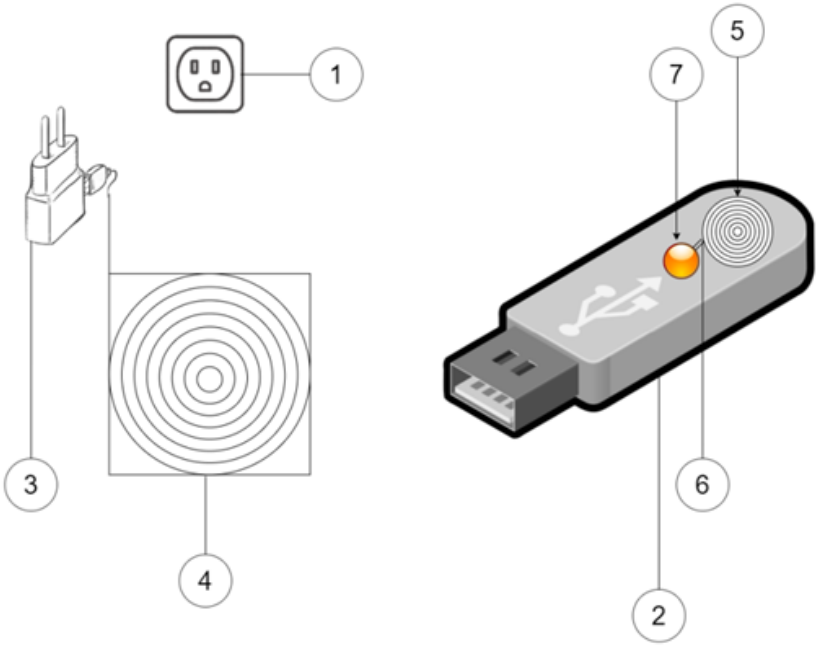
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# P16 AN EXTENSION IN SMALL SIZED ELECTRONIC GADGETS TO MAKE EASY SEARCH OF THEM LIKE PENDRIVE

**Patent Application No. - 202221010733**

**ABSTRACT**

A system for searching a misplaced pen drive (external secondary storage device) or other electronic gadgets , the said system uses a combination of electromagnetic field generator and transmitter and receiver, the said combination is known as EMF(Electromagnetic Field) Module Pair (TX+RX), the said generator and transmitter package needs supply hence is installed directly on source with a switch, the receiver and beeper package is installed on periphery of pen drive where the beeper beeps after receiving current from transmitter. The beeping sound of receiver helps us locating misplaced remote control.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/597/2022/MUM | 202221010733 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010733 | TEMP/E-1/11302/2022-MUM | 1600 | 5196 | FORM 1 | Full | AN EXTENSION IN SMALL SIZED ELECTRONIC GADGETS TO MAKE EASY SEARCH OF THEM LIKE PENDRIVE |

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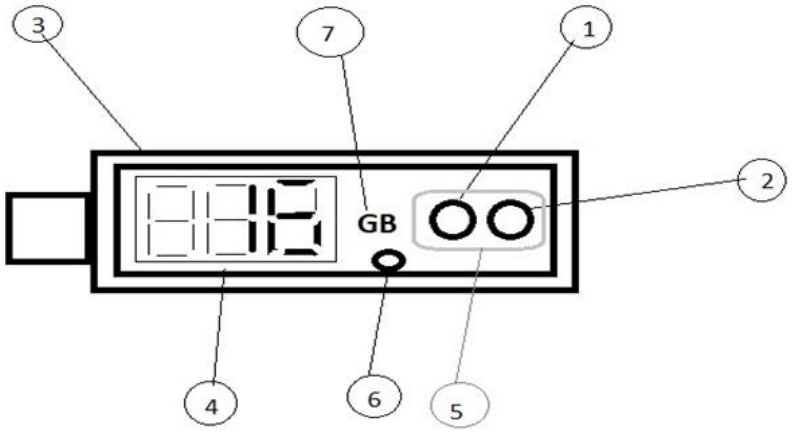
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# P17 DIGITAL DISPLAY AND FORMAT UNIT ON PENDRIVE

**Patent Application No. - 202221010856**

**ABSTRACT**

Pen drive is means for storage which works on principle of Flash Memory. This innovation is based on having a flap under which two buttons are provided one to get information of storage size and one button which is pressed for more 10sec then will do format the content on Pen drive for which a battery and interface including microcontroller is placed inside to provide electric power to perform these operations. With this invention user to get all the storage information and can do formatting if required on a fingertip without connecting to a machine as well as display unit can be LED display or LCD display.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/604/2022/MUM | 202221010856 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010856 | TEMP/E-1/11453/2022-MUM | 1600 | 5251 | FORM 1 | Full | DIGITAL DISPLAY AND FORMAT UNIT ON PENDRIVE |

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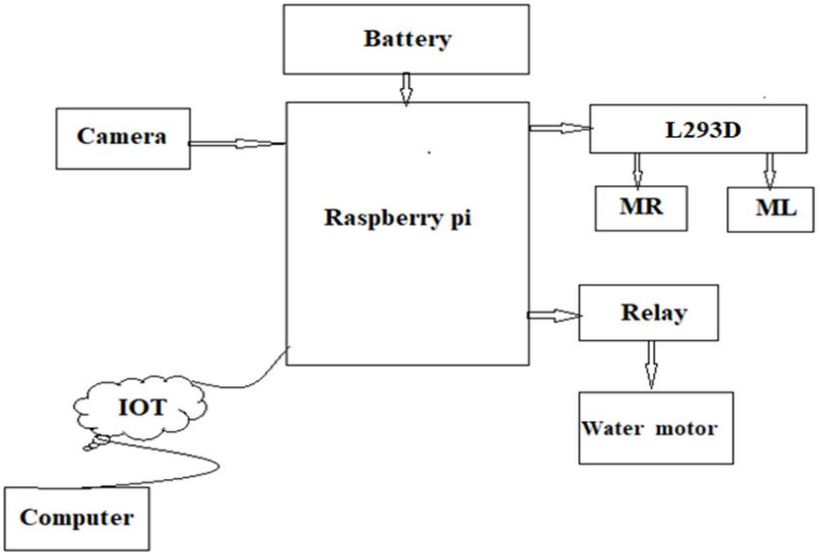
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# P18 AN AUTOMATIC PESTICIDE SPRAYER TO DETECT THE CROP DISEASE AND SPRAYING ONLY REQUIRED PESTICIDE ON AFFECTED CROPS

**Patent Application No. - 202221010675**

## ABSTRACT

System for an automatic pesticide sprayer to detect the crop disease and spraying only required pesticide on affected crops is a robust and accurate. In the face of a focus on development, a farming residue a most powerful sector of an Indian financial management system both regarding the benefaction to Gross Domestic Product (GDP) and also the source of utilization to the billions of people across the country. Agriculture is an agribusiness of the farmer that takes part in the financial management system. More than 75 percent of farm households depend on agriculture for their livelihood. But pest infestation in crops is a serious problem that slows down the growth of agricultural production. Crop disease identification in the agricultural sector is essential to deal with such problems. This system provides a technical solution to solve the type of issue in which the CNN algorithm is used to diagnose crop diseases and involves automatic pesticide spraying to spray pesticides on the affected crops locally. The system is based on pesticide sprays. The design deals with three modules image acquisition, image pre-processing, image segmentation, feature extraction, and classifications, and automatic spraying pesticide on the crop. The suggested system can work with the help of a VNC viewer and Python IDLE.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010675 | TEMP/E-1/11477/2022-MUM | 1600 | 5169 | FORM 1 | Full | AN AUTOMATIC PESTICIDE SPRAYER TO DETECT THE CROP DISEASE AND SPRAYING ONLY REQUIRED PESTICIDE ON AFFECTED CROPS |
| 2 | E-106/588/2022/MUM | 202221010675 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
|---|---|---|---|---|
| N-0000928458 | Online Bank Transfer | 2802220013439 | 1600.00 | 1475001020000001 |

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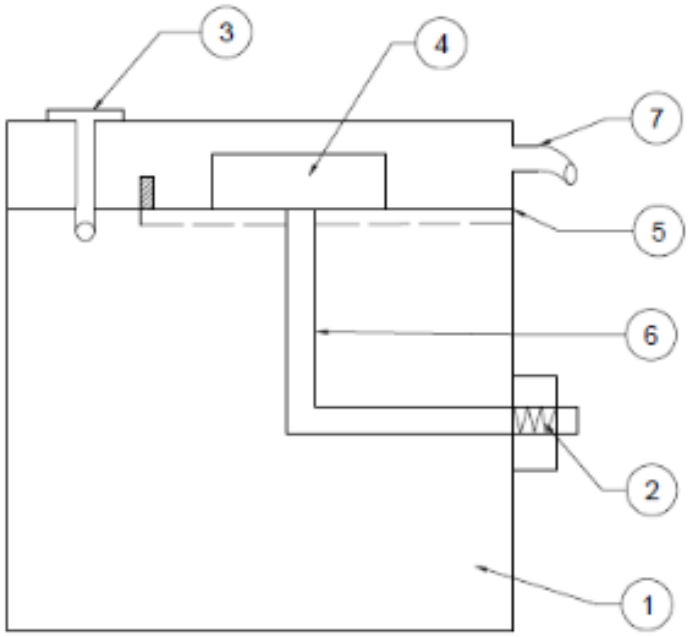
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# P19 BUTTON OPERATED OPENING AND CLOSING OF BOTTLE CAP

**Patent Application No. - 202221010565**

**ABSTRACT**

This innovation is based on providing a bottle with button operated automatic opening and closing using one hand. In this, the connecting link connects the push button and the slider rigidly. When the button is pressed, the slider moves in the provided rectangular slot for the given direction using the guide ways. The reciprocation of the slider provides the opening and closing of the aperture, used to release the water/fluid out of the bottle through the tab provided on the bottle. Another orifice is also provided for the filling and emptying of the bottle when it is not in use. This system will also be very useful to maintain the better hygiene in various areas of its application.




**Applicants :** 1. PCCOER, 2. Prof. Dr. R. K. RATHOD, 3. Prof. P. R. GAIKWAD, 4. Prof. Dr. S. H. MANKAR, 5. Ms. P. R. RATHOD

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|---|---|---|---|---|---|---|---|
| 1 | 202221010565 | TEMP/E-1/11955/2022-MUM | 1600 | 5100 | FORM 1 | Full | BUTTON OPERATED OPENING AND CLOSING OF BOTTLE CAP |
| 2 | E-106/547/2022/MUM | 202221010565 | 0 | -1 | FORM28 | Full | |

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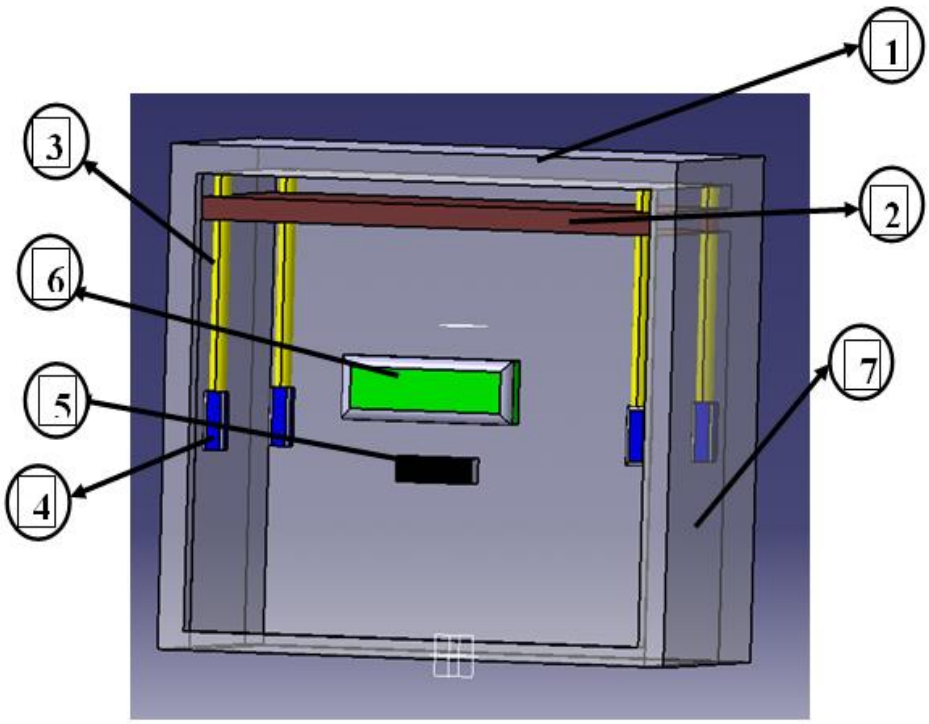
# P20 REMOTE OPERATED UP AND DOWN THERMAL INSULATED CEILING FOR REDUCING VOLUME OF HALL TO DECREASE COOLING LOAD

**Patent Application No. - 202221010558**

**ABSTRACT**

The present invention is a adjustable thermal insulated ceiling system with the help of power screw system along with the remote operated motors. Due to the height adjustment can changes the height of ceiling to reduce the total volume as per requirement also can achieve the actual ceiling height as and when require.

According to this invention, it is a setup works on the power screw and IR based sensor operated electric motors which can control with the help of remote to move the thermal insulated sheets in upward or downward directions.




**Applicants :** 1. PCCOER, 2. Prof. S. M. CHOUGULE

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | 202221010558 | TEMP/E-1/11590/2022-MUM | 1600 | 5094 | FORM 1 | Full | REMOTE OPERATED UP AND DOWN THERMAL INSULATED CEILING FOR REDUCING VOLUME OF HALL TO DECREASE COOLING LOAD |
| 2 | E-106/542/2022/MUM | 202221010558 | 0 | -1 | FORM28 | Full | |

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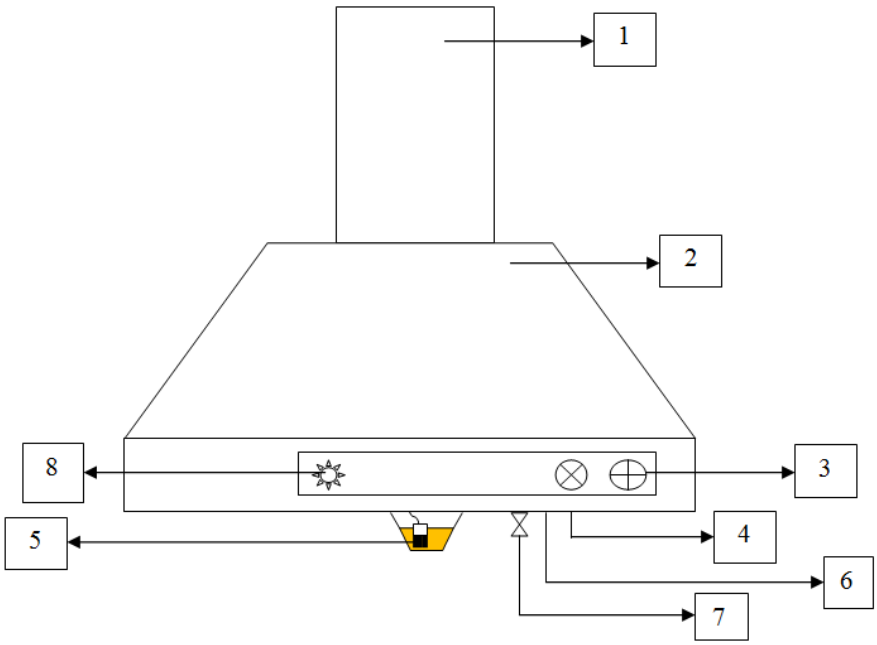
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# P21 APPARATUS TO MEASURE OIL-DIRT SATURATION FOR CLEANING THE KITCHEN CHIMNEY

**Patent Application No. - 202221010587**

**ABSTRACT**

Chimneys are widely used in the food industry, at home etc. For chimney to work properly cleaning has to take place effectively. Current chimneys are to be manually cleaned and when to clean is to be decided by the user. It is found that very less investigation is done on cleaning time and this is one of the reasons cleaning is not done properly in the practice. The proposed setup is useful for proposing cleaning time. The novelty of the present invention is in its mechanism to measure the oil filled in chimney and its outer surface. In this regard to determine the oil filled in and out of the surface of chimney sensors are used. The sensors calculate the oil and dirt layer in the cup and on the hood (tray) and if the oil saturation level is beyond a threshold gives an alarm that there is a necessity to clean the chimney. Thus, using this setup, we can have a clean chimney with automatic indication for cleaning.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | E-106/563/2022/MUM | 202221010587 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010587 | TEMP/E-1/11284/2022-MUM | 1600 | 5121 | FORM 1 | Full | APPARATUS TO MEASURE OIL-DIRT SATURATION FOR CLEANING THE KITCHEN CHIMNEY |

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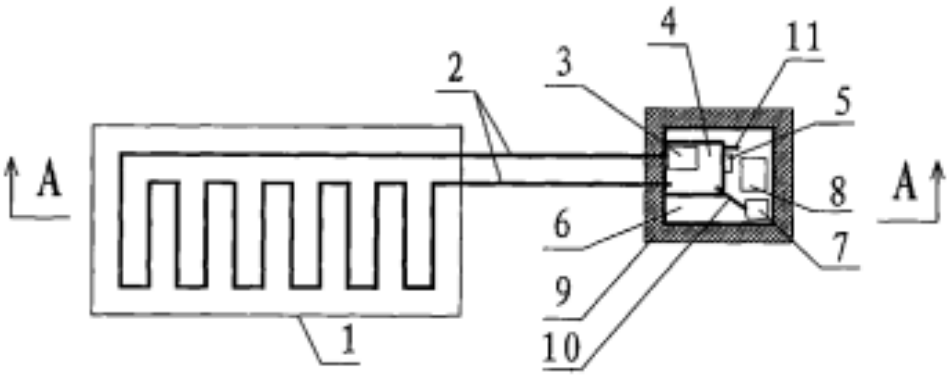
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# P22 HOT AND COLD CUSHION FOR TEMPERATURE CONTROL

**Patent Application No. - 202221010546**

**ABSTRACT**

The present invention relates provides the cold and hot cushion of a kind of temperature control. In order to address the said problem, the cold and hot cushion of temperature control is provided. The technology invented a kind of temperature control heating mattress. It mainly provided with a heat dissipation type water receiver in heating mattress, and has the electromagnetic oven heating device at water receiver, by electrical heating the water in the water receiver is heated up, and then heat is reached mattress surface, reaches the purpose of heating and the temperature by temperature controller control mattress, make it remain on predefined temperature. But the heater of this heating mattress places in the mattress, often has three kinds of defectives: the one, when the electromagnetic oven heating device is short-circuited, cause fire incident easily; the 2nd, heat dissipation type water receiver volume is excessive, and heating is slow; The 3rd, can't provide the cold cooling in hot season.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010546 | TEMP/E-1/11989/2022-MUM | 1600 | 5083 | FORM 1 | Full | HOT AND COLD CUSHION FOR TEMPRETURE CONTROL |
| 2 | E-106/531/2022/MUM | 202221010546 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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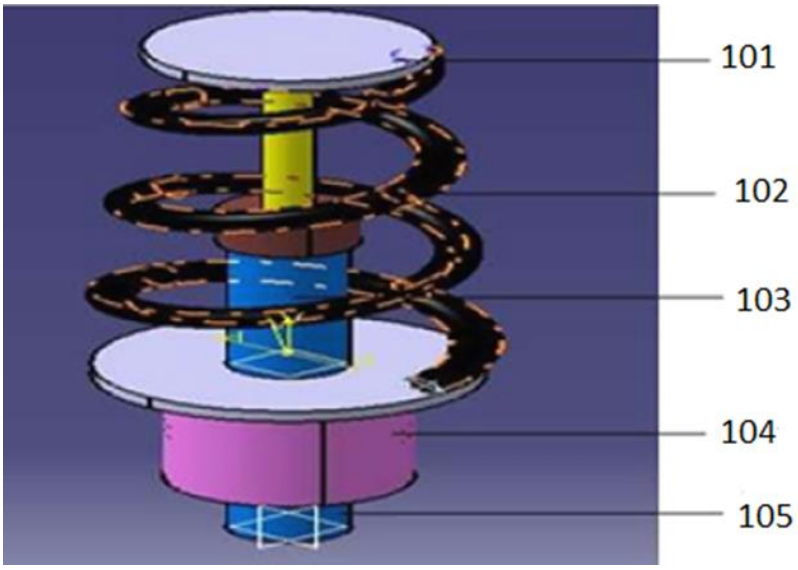
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# P23 HARVESTING VIBRATIONAL ENERGY USING REGENRATIVE HYBRID SUSPENSION SYSTEM

**Patent Application No. - 202221010579**

**ABSTRACT**

A hybrid electromagnetic shock absorber consists of fluid damper and linear generator. Novel feature of the design is incorporation of fluid amplification link to increase the coil relative velocity to ensured compact size and lower weight. Dynamic performance is not affected by amplification mechanism but result in increased harvested potential .Experimentation will be performed on the prototype with vertical excitation velocity of 0.1 to 0.7 m/s. Average power up to 50W can be recovered from single shock absorber for the normal driving condition. Due to radial and axial space available in front suspension of passenger car proposed system can easily fitted in available space. In comparison to the conventional McPherson strut suspension, the proposed arrangement will require larger outer diameter of the fluid damper assembly, since it houses linear generator and amplification cylinder. Also by separating amplification cylinder and generator assembly from fluid damper proposed system can be incorporated in multilink rear suspension.




**Applicants :** 1. PCCOER, 2. Prof. G. M. FODASE

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010579 | TEMP/E-1/11607/2022-MUM | 1600 | 5114 | FORM 1 | Full | HARVESTING VIBRATIONAL ENERGY USING REGENRATIVE HYBRID SUSPENSION SYSTEM |
| 2 | E-106/557/2022/MUM | 202221010579 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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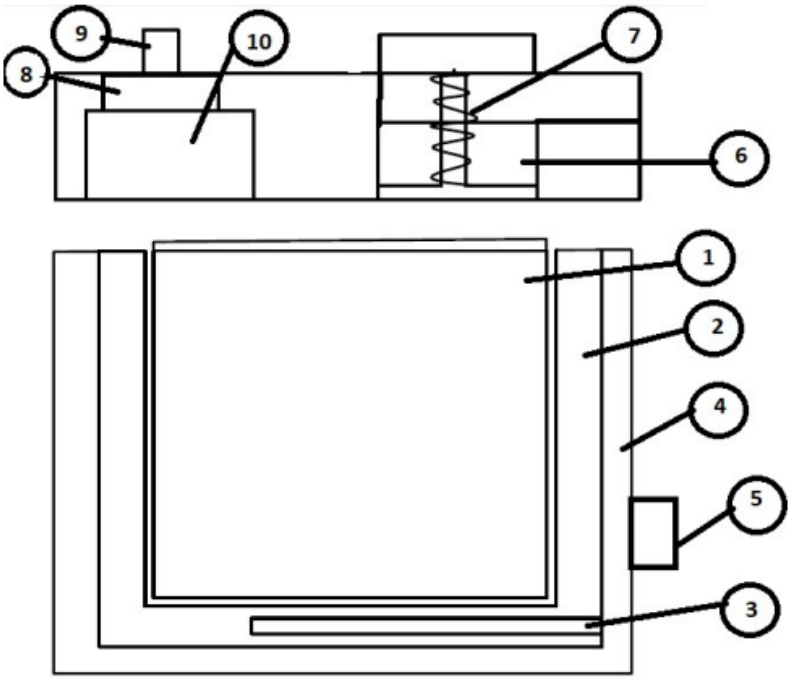
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# P24 QUICK CURD MAKING TIFFIN BOX

**Patent Application No. - 202221010549**

**ABSTRACT**

Including Curd in lunch is good for health. Curd consists of with vitaminB2, B12, protein, calcium, potassium and magnesium, along with lactobacillus which gives your immune system a boost. But people are not consuming due to freshness, sourness issue. Also preparing it is time consuming. By considering the health benefits and time required to prepare curd, Fast curd maker Tiffin is better idea, which can prepare curd in 30 minutes only and it will fresh which will not cause any harm even if eaten during cold days.



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| 1 | E-106/534/2022/MUM | 202221010549 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010549 | TEMP/E-1/11972/2022-MUM | 1600 | 5086 | FORM 1 | Full | QUICK CURD MAKING TIFFIN BOX |

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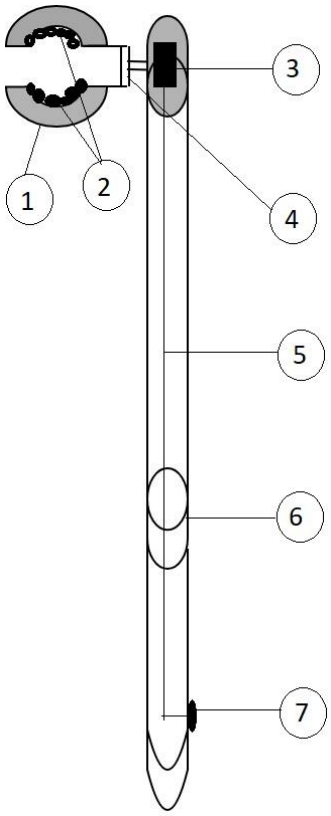
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# P25 UNIVERSAL TUBE-LIGHT CLEANER

**Patent Application No. - 202221010612**

**ABSTRACT**

A lightweight, highly maneuverable and extendable apparatus for cleaning tube-light. the apparatus carried by a lightweight handle and capable of reaching tube-light mounted at high height. The apparatus is easy to use and safe since it does not require to climb on ladder or stool to clean the tube-light.



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| 2 | 202221010612 | TEMP/E-1/11413/2022-MUM | 1600 | 5140 | FORM 1 | Full | UNIVERSAL TUBE-LIGHT CLEANER |

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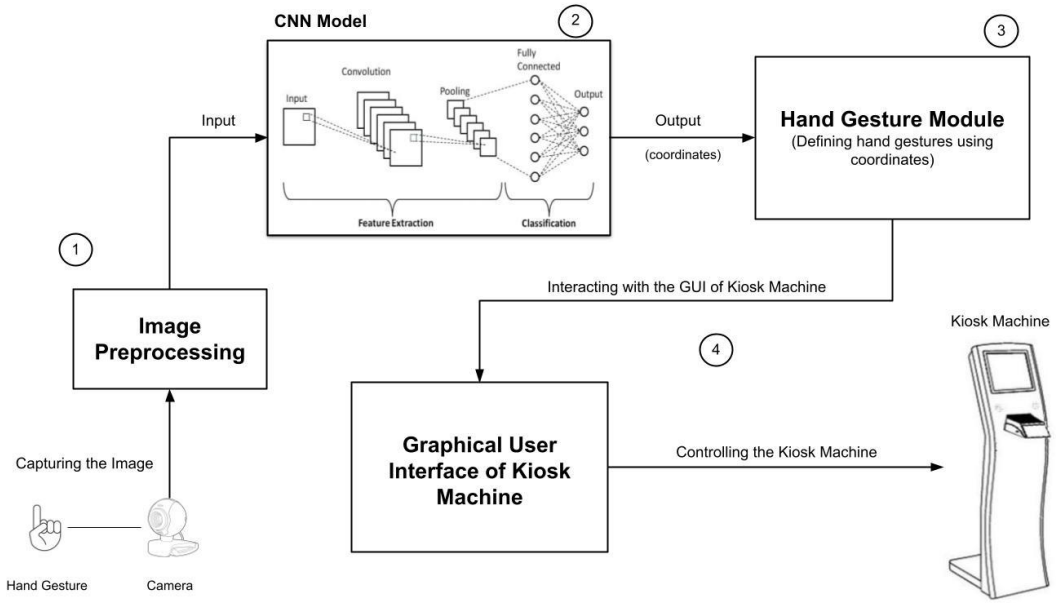
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# P26 GESTURE CONTROL SYSTEM FOR KIOSK MACHINE

**Patent Application No. - 202221010649**

## ABSTRACT

This innovation is based on providing an additional functionality in a kiosk machine to facilitate a mechanism of touchless control using hand gestures. The said system comprises of a camera attached to the kiosk machine which is used to capture hand images in real time. These images are further pre-processed and passed on as an input to the Convolutional Neural Network model. The feature extraction and classification processes take place on the image in the CNN module. CNN module is used to recognize the hand and consequently identifying different landmarks (joints) of the hand. The CNN module provides the co-ordinates of these landmarks as output and this is further passed on to the Hand Gesture module. Hand gestures are defined in the Hand Gesture module and necessary operation are performed on the co-ordinates obtained from the CNN. Interaction with Graphical User Interface of kiosk machine is done with the help of the acquired co-ordinates and the necessary functions defined in the Hand Gesture Module. As a result, a kiosk machine can be operated entirely by using hand gestures. This innovation can prove to be useful to prevent multiple people from touching the screen of the kiosk machine and as a result maintain hygiene.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010649 | TEMP/E-1/11404/2022-MUM | 1600 | 5158 | FORM 1 | Full | Gesture Control System for Kiosk Machine |
| 2 | E-106/583/2022/MUM | 202221010649 | 0 | -1 | FORM28 | Full | |

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| N-0000928432 | Online Bank Transfer | 2802220012740 | 1600.00 | 1475001020000001 |

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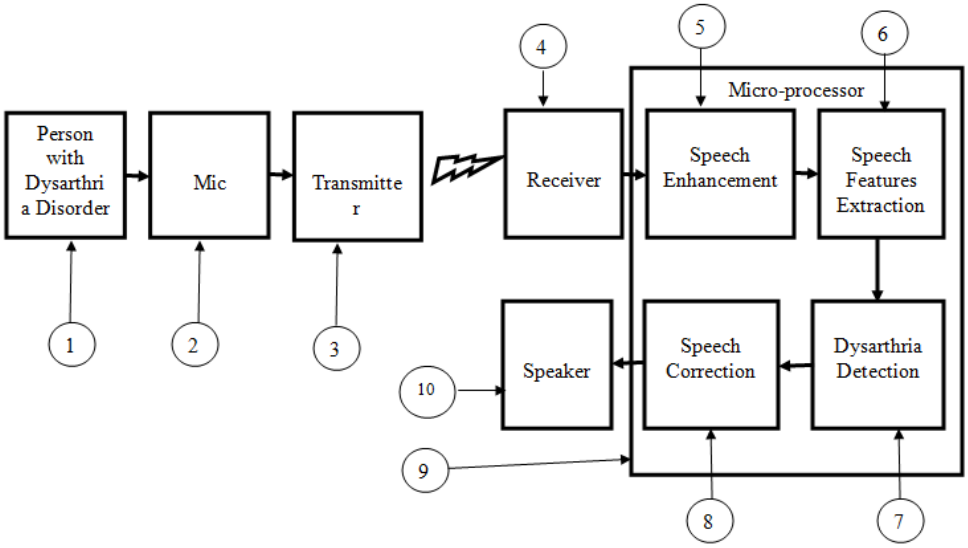
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# P27 SPEECH CORRECTION DEVICE FOR PERSON WITH DYSARTHRIA DISORDER

**Patent Application No. - 202221010561**

**ABSTRACT**

Dysarthria is most common speech neurological disorder that leads to difficulties in general communication. Dysarthria causes speech slurring, sluggish speech, speaking too loudly or being unable to speak louder than a whisper, rapid and difficult-to-understand speech, raspy, nasal, or strained voice, abnormal or uneven speech rhythm, uneven volume of speech, speech in a single tone or in trouble in moving tongue or facial muscles. The proposed invention suggests the design of portable device for speech correction for person with dysarthria disorder. The proposed device helps to normalize the spoken speech, identify and correct the slurring and sluggish speech, identify and detect the missing words from the voice of people with dysarthria based on deep learning algorithms and Microprocessor.



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| 1 | 202221010561 | TEMP/E-1/10749/2022-MUM | 1600 | 5097 | FORM 1 | Full | SPEECH CORRECTION DEVICE FOR PERSON WITH DYSARTHRIA DISORDER |
| 2 | E-106/544/2022/MUM | 202221010561 | 0 | -1 | FORM28 | Full | |

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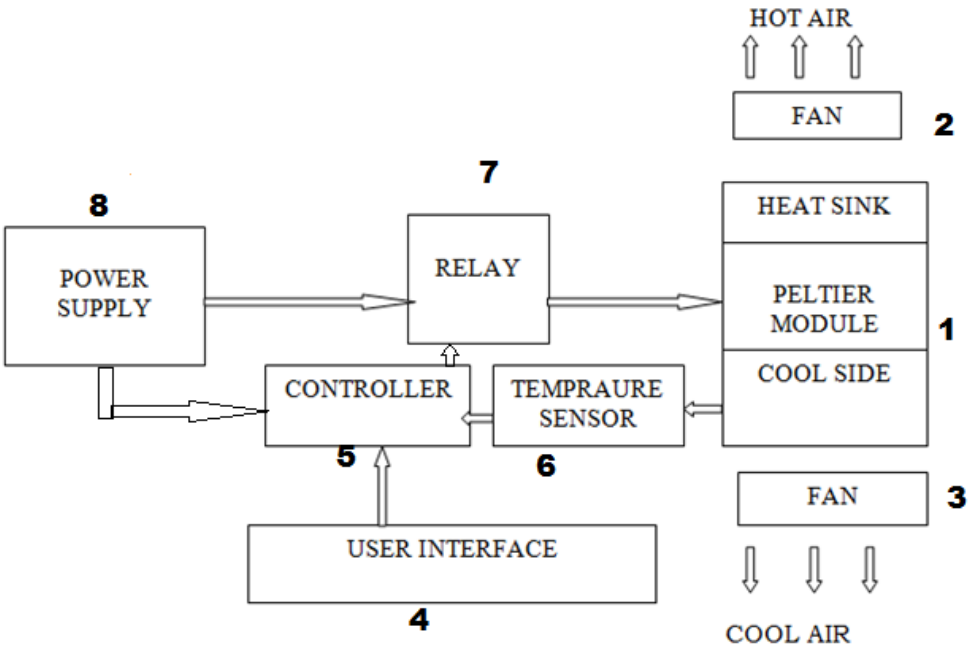
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# P28 PORTABLE AIR CONDITIONER

**Patent Application No. - 202221010552**

**ABSTRACT**

The present invention of A. C. design the key component used is Peltier module which results in Peltier Effect. Using this effect, the desired temperature is achieved by the cooling side of the Peltier module which reduces the temperature of the water container. Due to this the temperature of water inside the container drops up to the given input value This is based on a new approach of hybrid cooling system utilizing both Peltier effect and liquid based cooling. It is a compact system with very light weight components used in it and is also very easy to use. It is a portable design with a new efficient cooling method.



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| 2 | E-106/537/2022/MUM | 202221010552 | 0 | -1 | FORM28 | Full | |

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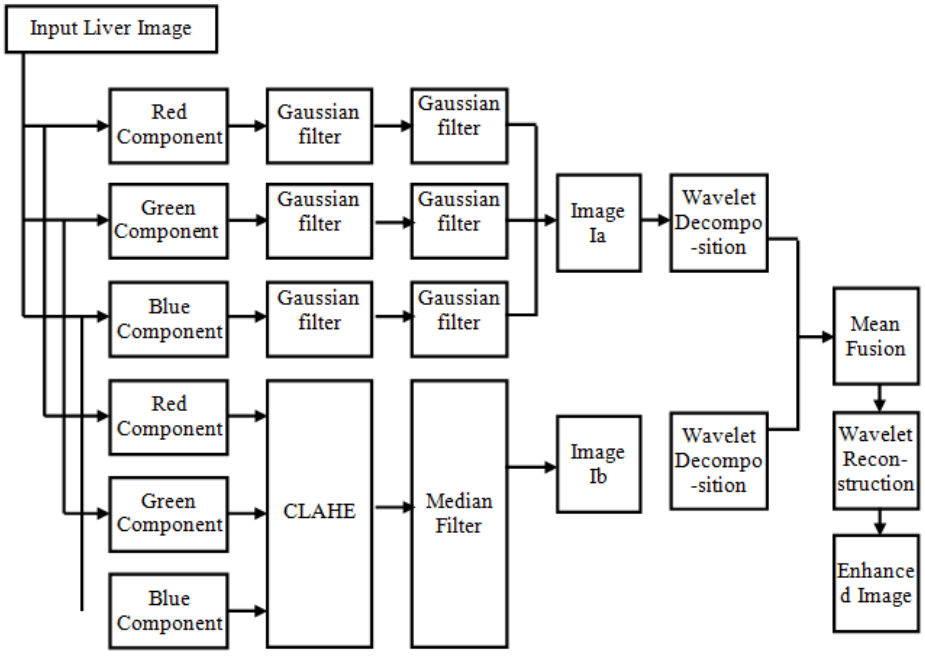
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# P29 LIVER COMPUTER TOMOGRAPHY IMAGE QUALITY ENHANCEMENT METHODOLOGY

**Patent Application No. - 202221010548**

**ABSTRACT**

The liver is the body's largest organ, and it is largely responsible for metabolism and detoxification. In computer vision-based biomedical image analysis, liver segmentation is a critical step in detecting liver cancer. Due to the complicated structure of abdominal computed tomography (CT) images, noise, and textural differences across the image, liver segmentation is a critical task that results in under-segmentation and over-segmentation. This paper uses a marker-based watershed transform to segment the liver in abdominal CT images. The modified Double Stage Gaussian Filter (MDSGF) is used in the pre-processing stage to improve contrast and preserve edge and texture information in liver CT images. As a pre-processing method, liver segmentation with modified double stage Gaussian filtering (MDSGF) yields better results.



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| 1 | 202221010548 | TEMP/E-1/10798/2022-MUM | 1600 | 5085 | FORM 1 | Full | Liver Computer Tomography image Quality enhancement Methodology |
| 2 | E-106/533/2022/MUM | 202221010548 | 0 | -1 | FORM28 | Full | |

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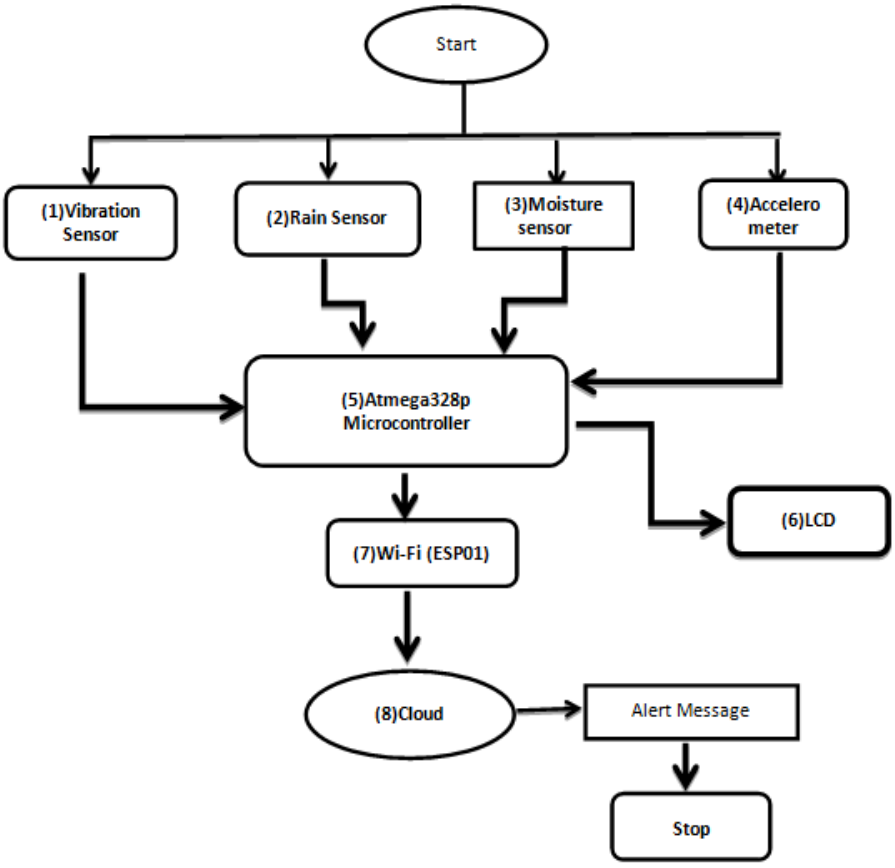
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# P30 LANDSLIDE DETECTION SYSTEM USING IOT AND THINGSPEAK

**Patent Application No. - 202221010566**

**ABSTRACT**

Landslide Detection System is based on Atmega328P microcontroller implemented using IOT with a ESP 8266 Wi-Fi Module, also performs real-time analysis on Thing-speak cloud based on various sensors such as Moisture Sensor, Vibration Sensor, Rain Sensor, Accelerometer which gathers all the information and produces real-time alerts to people via a text message and it also produces graphs and is a great tool for visualizing the data.



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| 1 | 202221010566 | TEMP/E-1/10752/2022-MUM | 1600 | 5101 | FORM 1 | Full | LANDSLIDE DETECTION SYSTEM USING IOT AND THINGSPEAK |
| 2 | E-106/548/2022/MUM | 202221010566 | 0 | -1 | FORM28 | Full | |

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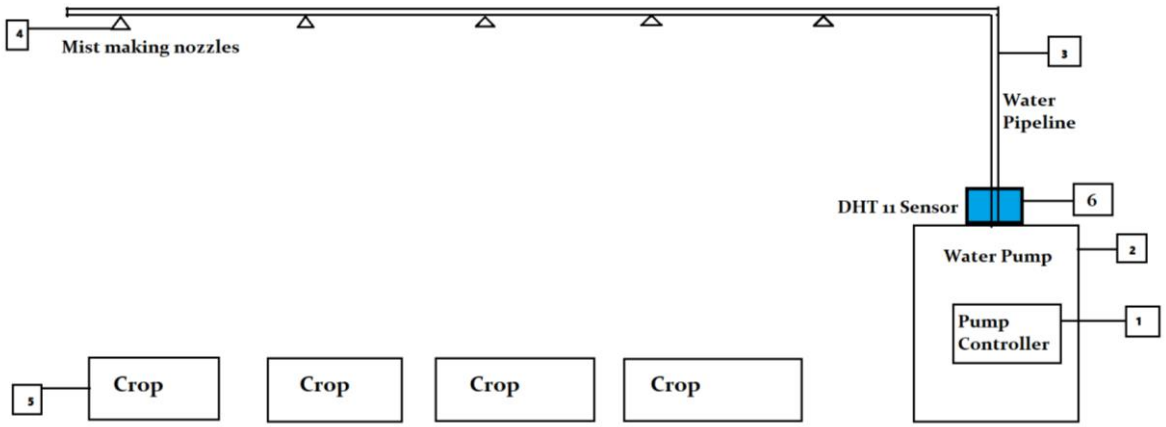
# P31 CROP-TECH AN AUTOMATIC SYSTEM FOR LOW TEMPERATURE FARMING

**Patent Application No. - 202221010753**

**ABSTRACT**

The setup is prepared by the use of a Water Pump, Water Pipeline, Arduino UNO, nozzles. Arduino UNO is used to detect the temperature and humidity, if temperature rises above the required one, Arduino UNO will switch on the relay which in turn will switch on the pump. Then the watering pump is used to pump the water. Then using the water pipeline water gets released in form of mist. Mist nozzles are used to spray the water on mushrooms. And when the temperature gets lower down to the required temperature then Arduino Uno sends the signal to the relay to switch off the pump. The pump gets switched off accordingly and the water supply gets stop.

Pump Controller controls the water flow and its timing it also detects the temperature and switch on the further part accordingly. Water Pump when pump controller sends the signal water pump switch on the relay and water is released to the pipeline. Water Pipeline is used to release the water to every nozzle. Mist making nozzles sprays the water in form of mist.



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| 1 | E-106/600/2022/MUM | 202221010753 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010753 | TEMP/E-1/11428/2022-MUM | 1600 | 5210 | FORM 1 | Full | CROP-TECH- An Automatic System for Low Temperature Farming |

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# P32 FIRST TO AID (AN AUTOMATIC TRAFFIC CLEARANCE SYSTEM FOR AMBULANCE)

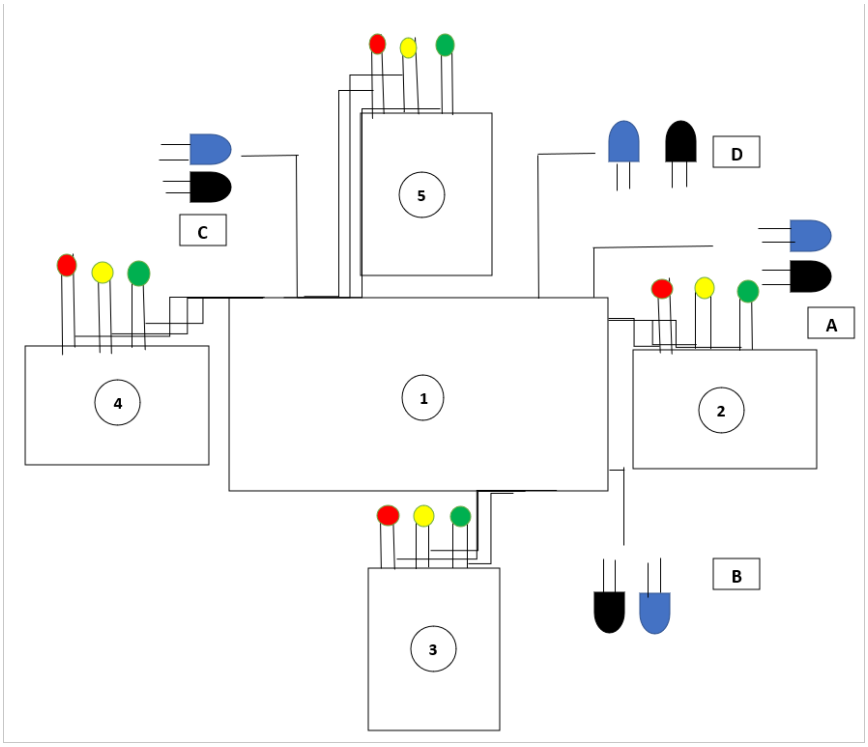
**Patent Application No. - 202221010750**

**ABSTRACT**

Traffic is a big issue in all major cities all over the world. Conventional systems have much limitation. In our project we covered three major objectives, that are:

- Provide varying time slots as per traffic density.
- Provide fast service for emergency vehicles.
- Provide minimum waiting time to a car at a junction if all other roads are empty.

The propose is to design and develop a congestion free road for ambulance, where the signal changes automatically on sensing the ambulance. The prototype model is developed using IR sensor and Arduino. We use Arduino to write programming according to our requirement.



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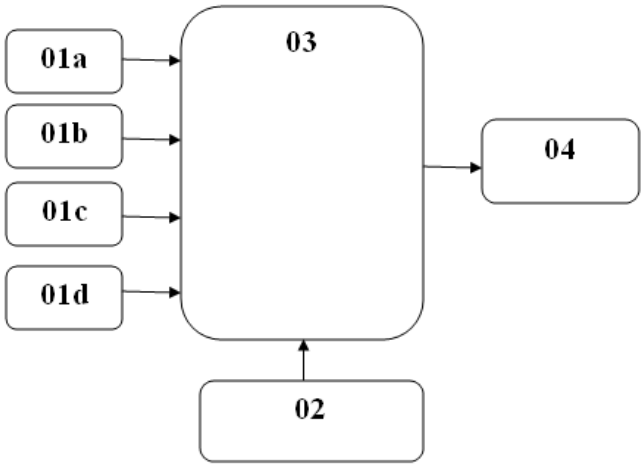
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# P33 ASSISTANCE TO ENSURE SAFETY OF CAR BY DETECTING WINDOWS OPEN STATE WHILE LOCKING

**Patent Application No. - 202221010570**

**ABSTRACT**

Whenever we lock the car after parking sometimes we forget to close the windows by mistake. There is no mechanism to alert the user about the windows open state. So with this invention the mechanism will alert us through buzzer to close the windows if they are kept open unknowingly or due to forgetfulness. This will ensure the safety of vehicle from the entry of reptiles etc. and theft of valuables kept inside the car. The proposed mechanism is useful to alert the user regarding windows state after parking the car. If windows remained open by mistake while locking it will alert the user by activating the buzzer.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010570 | TEMP/E-1/10739/2022-MUM | 1600 | 5105 | FORM 1 | Full | ASSISTANCE TO ENSURE SAFETY OF CAR BY DETECTING WINDOWS OPEN STATE WHILE LOCKING |
| 2 | E-106/550/2022/MUM | 202221010570 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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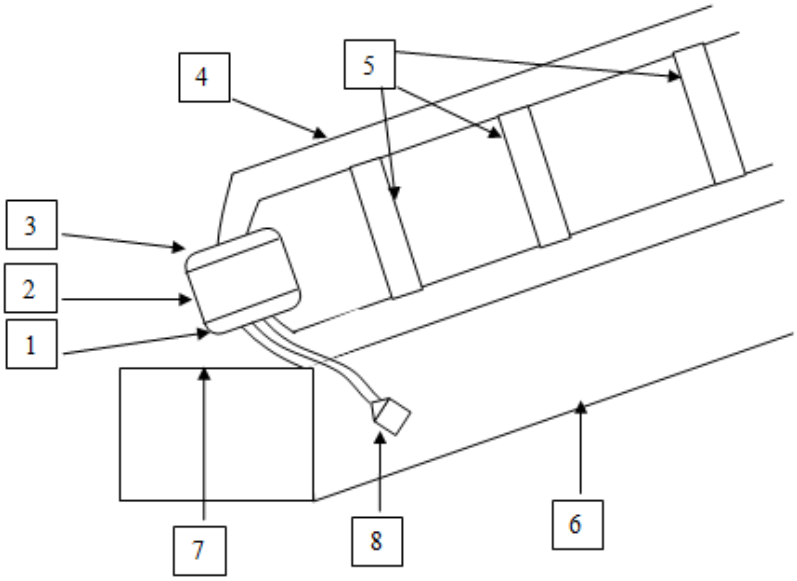
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# P34 SMART DISINFECTION SYSTEM FOR ESCALATOR HANDRAIL

**Patent Application No. - 202221010617**

**ABSTRACT**

A moving stairway that transports people between floors of a building or structure is known as an escalator. It is used in commercial complexes, theaters, malls, multiplex etc. The components of escalators consists landing platforms, handrails, steps, tracks, drive systems etc. Due to COVID19 pandemic situation, disinfection is must of surface where we utilized and handles various parts of life. Disinfection is a technique that destroys many or all pathogenic germs. Many researchers have found that sanitization of handrails of escalators. It is found that very less investigation is done on combination of disinfection and sanitizers. Hence more research is required to be done. In the proposed device is useful to disinfect the surface of handrail of escalators.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010617 | TEMP/E-1/12294/2022-MUM | 1600 | 5145 | FORM 1 | Full | Smart Disinfection System for Escalator Handrail |
| 2 | E-106/577/2022/MUM | 202221010617 | 0 | -1 | FORM28 | Full | |

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| N-0000928373 | Online Bank Transfer | 2802220011227 | 1600.00 | 1475001020000001 |

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# P35 AN INTELLIGENT OPENING CONTROL SYSTEM FOR WINDOWS

**Patent Application No. - 202221010615**

**ABSTRACT**

In most of the houses/flats/offices, windows need to be opened or closed as per our requirement. In the winter season, windows are usually kept closed. In the summer season, windows are kept open. So, according to atmospheric temperature, humidity, and wind velocity, we used to open/close the windows. We have to do this manually. The present invention consists of a sensor attached to windows, which senses temperature, humidity condition, rain, sunlight and wind velocity of the outside atmosphere. There is a setup attached to the window to operate the window (close/open/partially close or open). According to outside atmospheric conditions and the indoor environment parameters, the sensor controls the opening of the window.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/576/2022/MUM | 202221010615 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010615 | TEMP/E-1/12290/2022-MUM | 1600 | 5143 | FORM 1 | Full | An Intelligent opening control system for windows |

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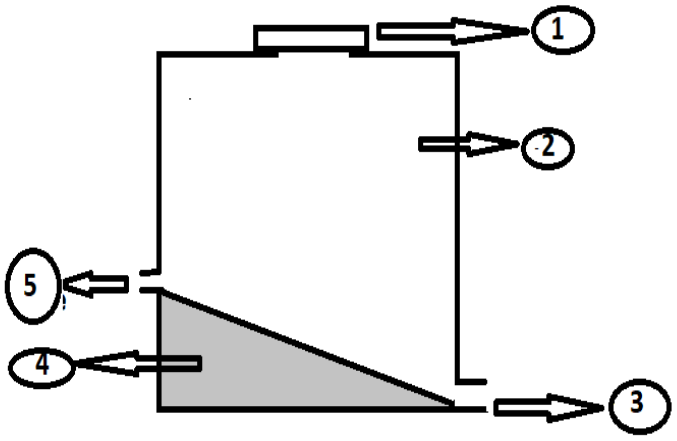
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# P36 SLOPING BASE WATER STORAGE TANK

**Patent Application No. - 202221010592**

**ABSTRACT**

The present invention is about water storage tank. The design of this tank is different than conventional storage tank. The base of tank is sloping from inside as shown in fig 1. The main idea behind this is to settle the minerals present in the water on sloping bed surface, so whenever we open cleaning valve of tank then under pressure all sediments will flush out. Which makes easier for cleaning as well as it reduces the percentage of these sediments to enter in to water taps of plumbing system.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/566/2022/MUM | 202221010592 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010592 | TEMP/E-1/12249/2022-MUM | 1600 | 5125 | FORM 1 | Full | SLOPING BASE WATER STORAGE TANK |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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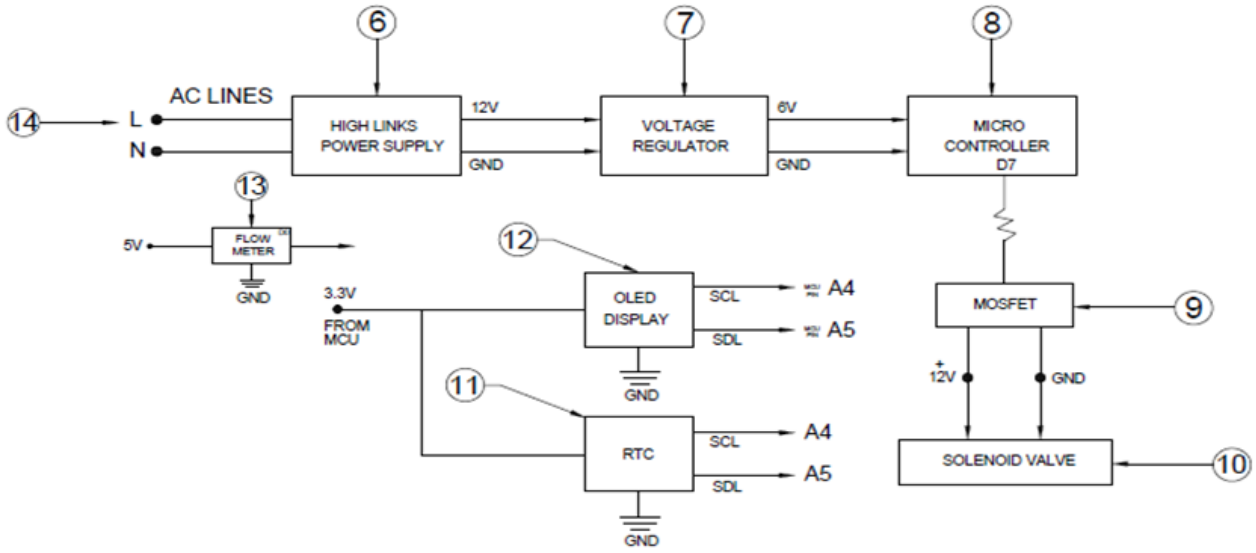
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# P37 AUTOMATED WATER DISCHARGE UNIT FOR RESIDENTIAL BUILDINGS

**Patent Application No. - 202221010611**

**ABSTRACT**

An embodiment relates to an automatic discharge system for residential buildings comprising: a flow meter with sensor, microcontroller unit, solenoid valve, voltage regulator, real time clock, MOFSET. The Pre-sanctioned water quantity is supplied to the ground water tank of residential building. The water quantity is checked by sensor attached to flow meter. The microcontroller is programmed to Pre-sanctioned quantity of water. The opening and closing of solenoid valve is controlled by MOFSET and microcontroller. The voltage regulator control voltage fluctuation. The solenoid valve is automatically closed after the set water quantity is supplied through lateral line. The solenoid valve is opened automatically after 24 hours by using real time clock.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010611 | TEMP/E-1/12287/2022-MUM | 1600 | 5139 | FORM 1 | Full | Automated Water Discharge Unit for Residential Buildings |
| 2 | E-106/573/2022/MUM | 202221010611 | 0 | -1 | FORM28 | Full | |

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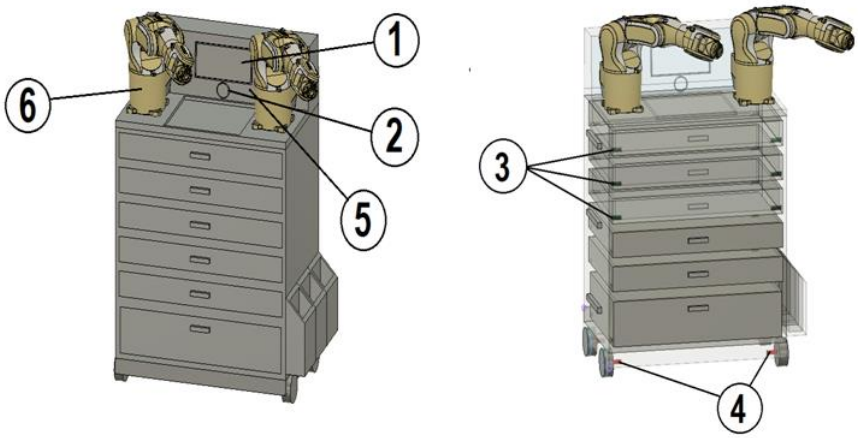
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# P38 EXIGENCY ROBOT

**Patent Application No. - 202221010551**

**ABSTRACT**

A system that is centered on saving the lives of patients in emergencies by reducing the time needed for the administration of medications. It is done through quick dispensing of the medicines from the crash cart with the use of a combination of robotic arm and servo motors. This robotic system will effectively relieve burden from nurses allowing them to concentrate on tasks pertinent to their primary duties. Robotic machines have already been considered to support processes including distribution of food trays, medicines, and laboratory specimens throughout a hospital. Robots may also automate logistics tasks relevant to medical equipment and supply storage. Beyond these tasks, an upgraded role for robots includes working alongside or collaborating with nurses to support their work and enhance efficiency. Moreover, the robotic system can help reduce occupational exposure of human nurses to hazardous infections or chemicals.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/536/2022/MUM | 202221010551 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010551 | TEMP/E-1/10731/2022-MUM | 1600 | 5088 | FORM 1 | Full | EXIGENCY ROBOT |

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| N-0000928268 | Online Bank Transfer | 2802220008912 | 1600.00 | 1475001020000001 |

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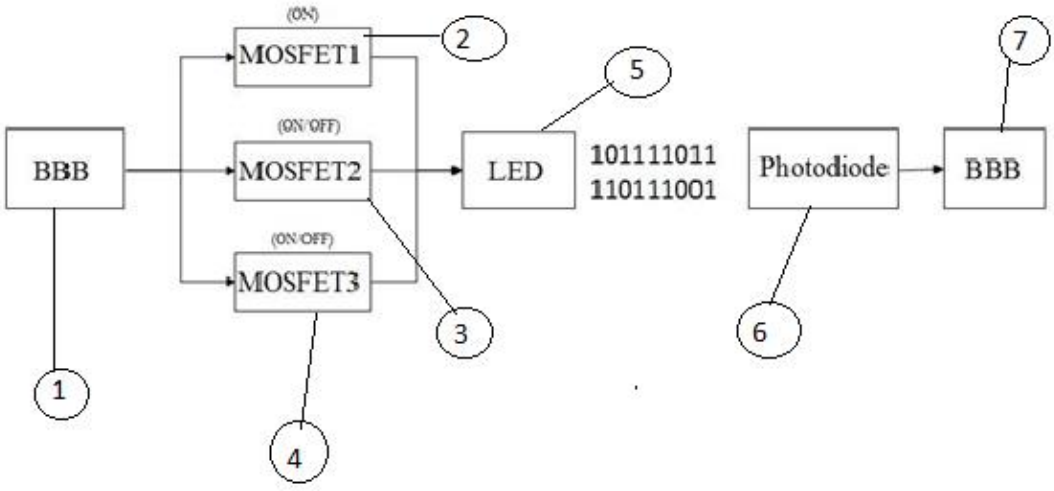
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# P39 POLYHOUSE FARMING USING VISIBLE LIGHT COMMUNICATION (VLC)

**Patent Application No. - 202221010811**

**ABSTRACT**

Recently, Polyhouse farming has taken the place of traditional farming. This technique reduces dependency on rainfall and dramatically changing environmental conditions and makes the optimum use of land and water resources in a controlled environment. Manually controlled system requires a lot of attention and care. To overcome this limitation, novel technologies like Internet of things (IoT) and sensor network (SN) can be used. Case studies show that, use of electromagnetic or radio spectrum for communication degrades the growth and quality of crops. VLC outperforms when compared with traditional communication techniques in terms of available frequency spectrum, reliability, security and energy efficiency. LED source used in VLC acts as communication element as well as used for illumination. This invention proposes VLC as a medium of communication from node to the network gateway.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010811 | TEMP/E-1/11385/2022-MUM | 1600 | 5230 | FORM 1 | Full | POLYHOUSE FARMING USING VISIBLE LIGHT COMMUNICATION (VLC) |
| 2 | E-106/603/2022/MUM | 202221010811 | 0 | -1 | FORM28 | Full | |

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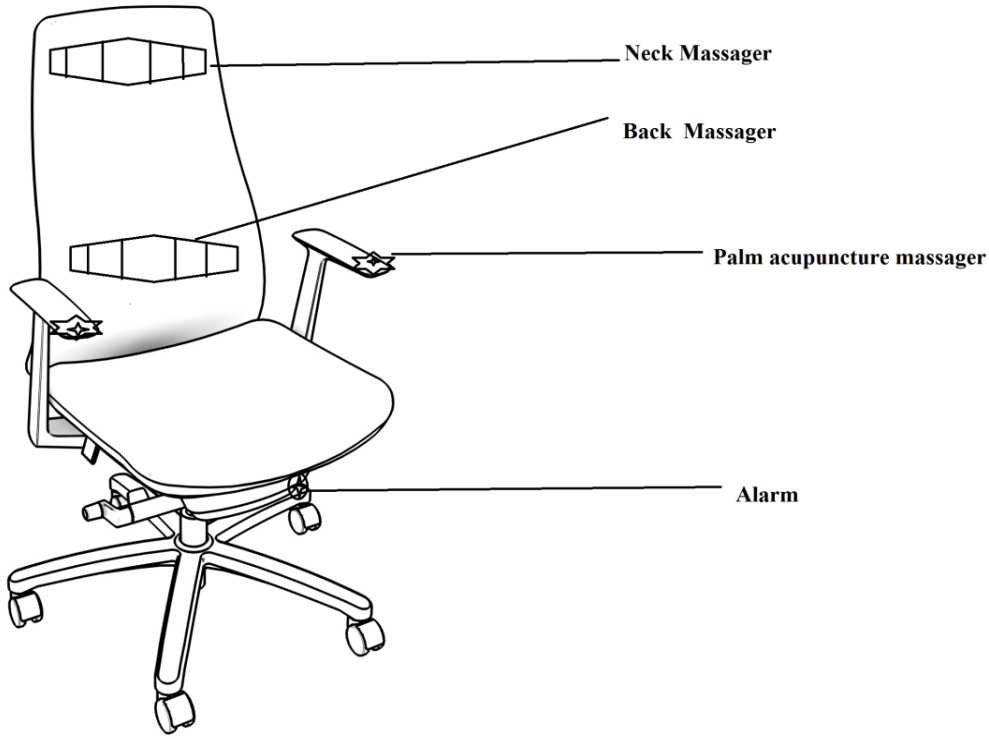
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# P40 FIT-BIT CHAIR

**Patent Application No. - 202221010728**

**ABSTRACT**

Fit-bit chair is a chair with integration of some health tools ex like neck massager, back massager, palm acupuncture massager and alarm for prevention from long sitting hours. This chair will be going to help people to become healthy , who are addicted to long sitting hours or due to their work pressure they do not want to take break from continuous sitting. Integrated massager will give relaxation for neck and back and integrated alarm will remind to move from chair in regular interval . It will help for increasing metabolism and calorie burning.



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| 1 | 202221010728 | TEMP/E-1/11372/2022-MUM | 1600 | 5191 | FORM 1 | Full | FIT-BIT CHAIR |
| 2 | E-106/595/2022/MUM | 202221010728 | 0 | -1 | FORM28 | Full | |

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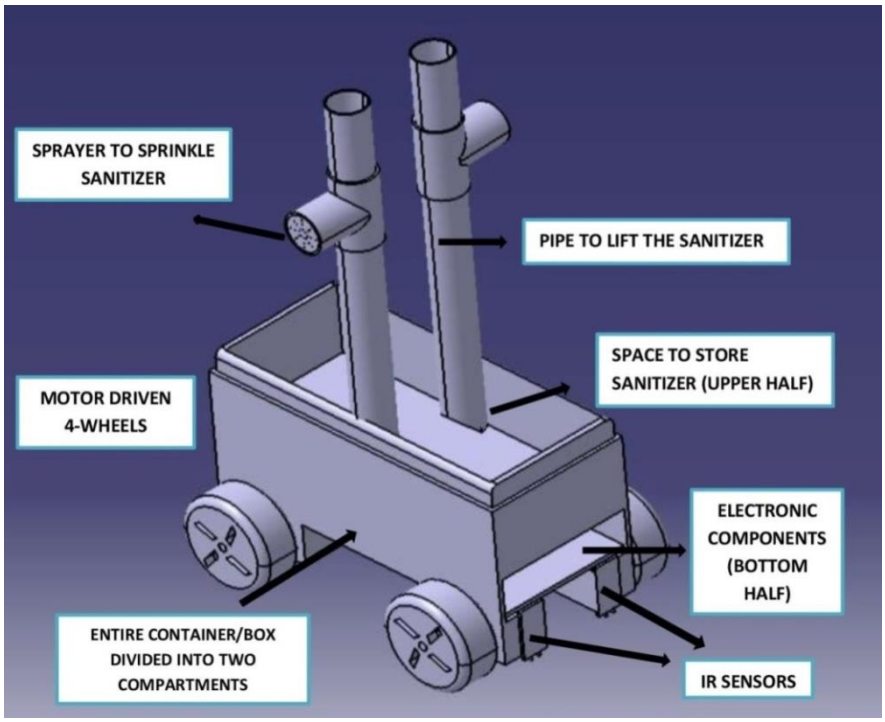
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# P41 PATH TRACKER DISINFECTANT SPRAY MACHINE

**Patent Application No. - 202221010541**

**ABSTRACT**

Amid the corona virus pandemic health experts have been emphasizing on the importance of keeping our surrounding and hands germ-free, by using sanitizer spray and hand sanitizer or soaps respectively, thus to help reduce contact and prevent the chances of infection we have come up with an idea of developing an 'Autonomous Sanitizer ' which moves automatically according to the guidance of the smart electronic sensor and sanitizes targeted areas, protecting us from the dangerous virus and germs.




**Applicants :** 1. PCCOER, 2. Prof. A. S. KURHADE

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| 1 | E-106/528/2022/MUM | 202221010541 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010541 | TEMP/E-1/11999/2022-MUM | 1600 | 5078 | FORM 1 | Full | PATH TRACKER DISINFECTANT SPRAY MACHINE |

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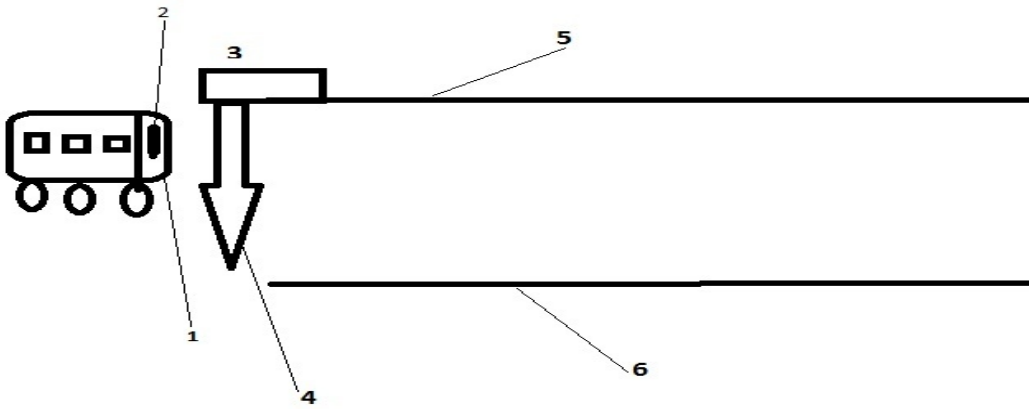
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# P42 A MECHANISM FOR SAFE AND RELIABLE ENTRY OF BUSES INTO BRT LANE

**Patent Application No. - 202221010715**

**ABSTRACT**

The present invention relates generally to an traffic safety scenario to provide safe and reliable operation into BRT lane and also to reduce chances of accidents by automatic opening and closing of a barrier across a starting of BRT lane . On an automotive body of the bus vehicle that are meant exclusively for BRT lanes comprises of a RFID tag which contains information as the vehicle's make and unique ID .An antenna that receives messages from the tags can be used to match it against a data set of vehicle tags allowed to pass through the BRT lane . In seconds, the data can be exchanged, and the barrier gate opened at entry allowing only the bus to enter into the lane restricting the other vehicles to provide fast and smooth commute.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/592/2022/MUM | 202221010715 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010715 | TEMP/E-1/9935/2022-MUM | 1600 | 5184 | FORM 1 | Full | A MECHANISM FOR SAFE AND RELIABLE ENTRY OF BUSES INTO BRT LANE |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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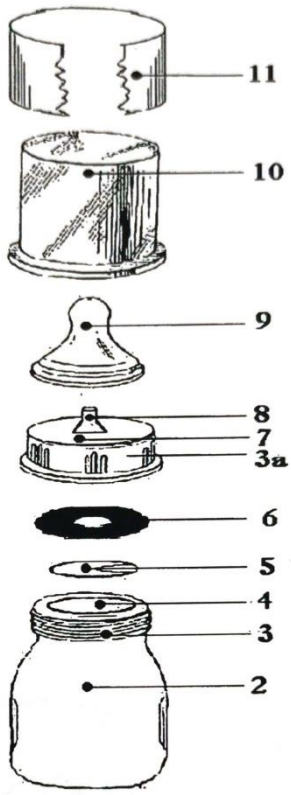
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# P43 A NOVEL TYPE OF BABY MILK BOTTLE SYSTEM USED FOR INFANTS & TODDLERS

**Patent Application No. - 202221010582**

**ABSTRACT**

This invention relates to a disposable pre-filled baby bottle delivery System, Specifically designed to assist the caretaker in the ease and convenience of the feeding, the nutritional Supplementation, medicinal intake, or the pacifying of an infant or toddler without the necessity of a refrigerated storage. The small form container is filled with a sterilized liquid and hermetically Sealed at the opening with a removable membrane. The nipple is a molded lollipop type Structure that is formulated to provide an appealing taste So as to encourage the infant or toddler to drink the liquid or simply pacified by Sucking on the flavored nipple. The nipple is covered with a rigid plastic and Sealed with a thin plastic film.



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| 1 | E-106/560/2022/MUM | 202221010582 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010582 | TEMP/E-1/11627/2022-MUM | 1600 | 5118 | FORM 1 | Full | A NOVEL TYPE OF BABY MILK BOTTLE SYSTEM USED FOR INFANTS & TODDLERS |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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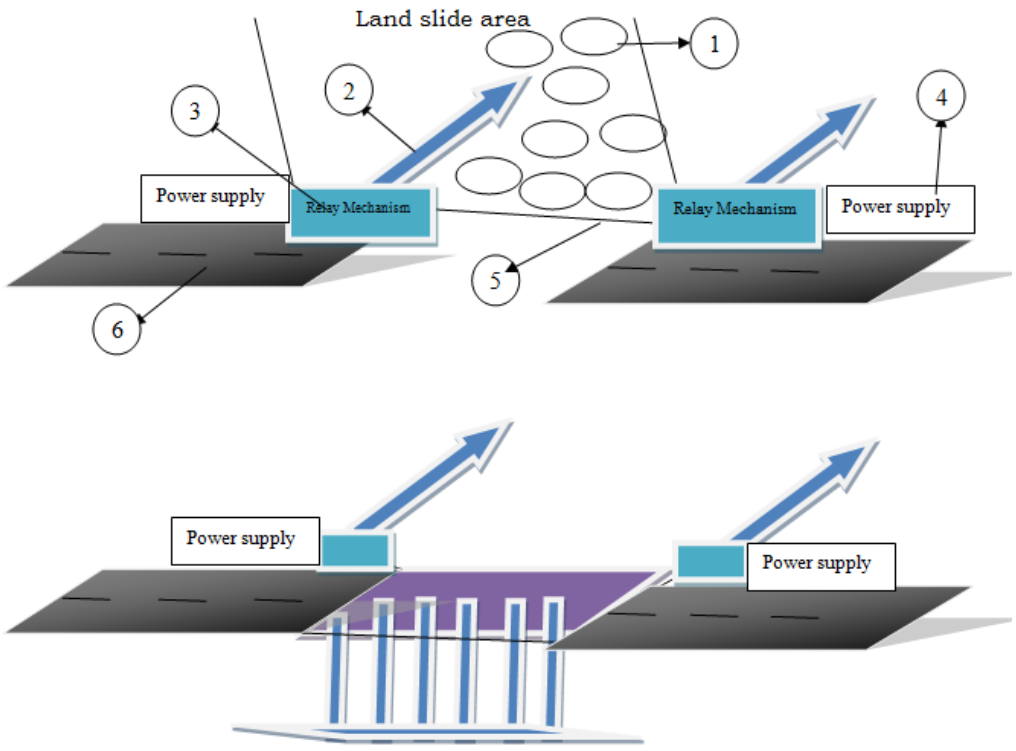
# P44 USE OF AUTOMATIC BARRIER GATE SYSTEMS BY USING RELAY MECHANISM AFTER LAND SLIDE OR CONSTRUCTION COLLAPSE

**Patent Application No. - 202221010591**

**ABSTRACT**

The present invention relates system with relay mechanism can be used to control the damages after natural disaster like land slide, bridge collapsing.

In present invention we have used automatic barrier gate system by using relay mechanism after landslide and construction collapse. Now this system can be use as barrier gate to block vehicles on road after land slide, bridge collapse, tunnel section, by using relay mechanism.



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| 1 | E-106/565/2022/MUM | 202221010591 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010591 | TEMP/E-1/9755/2022-MUM | 1600 | 5124 | FORM 1 | Full | USE OF AUTOMATIC BARRIER GATE SYSTEMS BY USING RELAY MECHANISM AFTER LAND SLIDE OR CONSTRUCTION COLLAPSE |

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| N-0000928325 | Online Bank Transfer | 2802220010351 | 1600.00 | 1475001020000001 |

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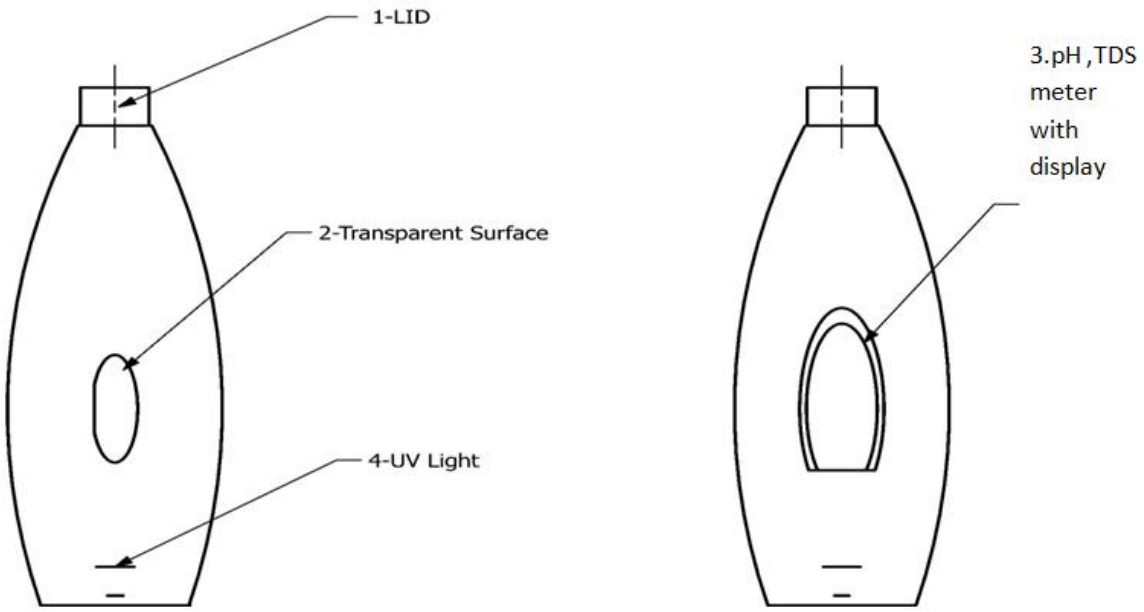
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# P45 BOTTLE WITH WATER QUALITY SMART INDICATOR

**Patent Application No. - 202221010631**

**ABSTRACT**

The present invention relates to water storage bottle of pure drinking water, more specifically bottle attached with pH meter, TDS meter and UV light source, to indicate the purity of drinking water. The parameters used have following importance, pH meter measure the acidic/basic nature of water, total Dissolved Solids (TDS) correlates positively with conductivity and affects pH ,UV-C radiation is one type of energy source that is capable of disinfecting water, and identify E. Coli bacteria in water . This is simple way to identify the pH, TDS and identification of E. coli bacteria to check the purity of the poured water in the bottle .Also the present invention has a display unit of identified parameters, The main intention of the invention is to aware the user about the quality of water they are drinking so as to take precautionary measures to avoid health hazards due to drinking the contaminated water.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010631 | TEMP/E-1/9889/2022-MUM | 1600 | 5149 | FORM 1 | Full | Bottle with water quality smart indicator |
| 2 | E-106/581/2022/MUM | 202221010631 | 0 | -1 | FORM28 | Full | |

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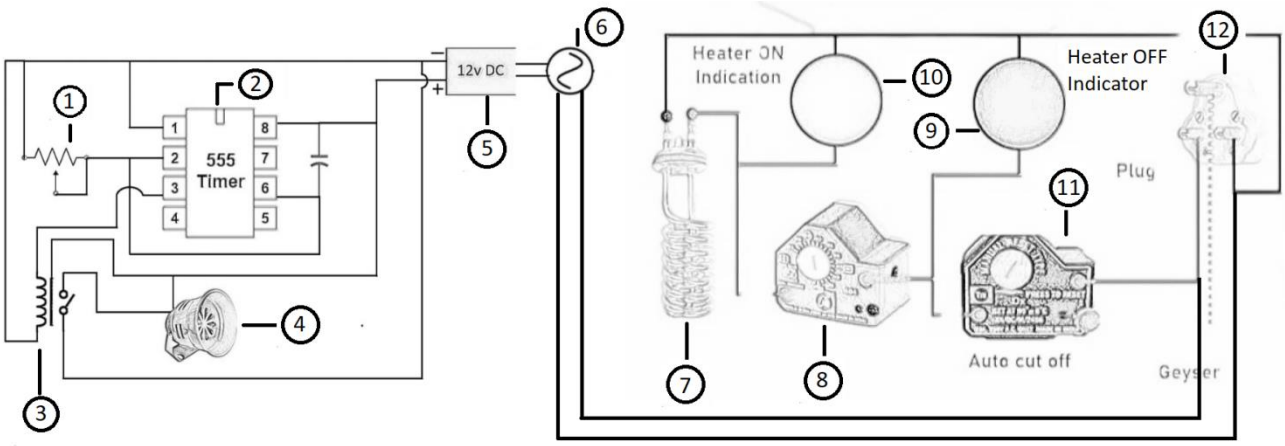
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# P46 ALARM BASED ELECTRIC GEYSER

**Patent Application No. - 202221010599**

**ABSTRACT**

Electric Geyser is very essential appliance at domestic level. As solar based water heaters are not efficient during the rainy seasons or in cloudy atmosphere. Nowadays, all houses in society prefer the Electric Geyser as another option to heat the water. One should be very careful while using this apparatus as overheating will be dangerous to the apparatus as well as to the operator. Conventional systems are provided with LED indicators to warn the operator but it may fail due to lack of attention. The proposed invention will be helpful to warn the operator to switch off the Electric Geyser within safe time.



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| 1 | 202221010599 | TEMP/E-1/9984/2022-MUM | 1600 | 5131 | FORM 1 | Full | Alarm Based Electric Geyser |
| 2 | E-106/569/2022/MUM | 202221010599 | 0 | -1 | FORM28 | Full | |

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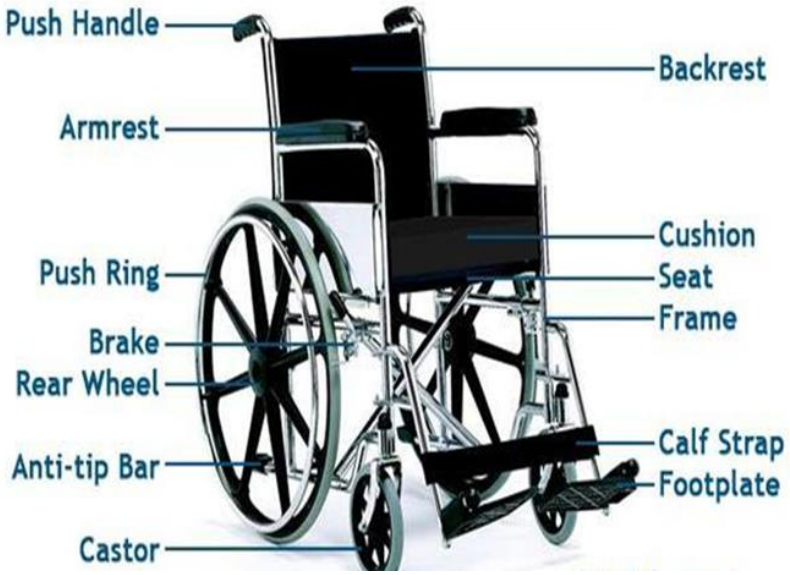
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# P47 WHEEL CHAIR FOR PARALYSIS PATIENT

**Patent Application No. - 202221010613**

**ABSTRACT**

A wheelchair is a chair with wheels, used when walking is difficult or impossible due to illness, injury, problems related to old age, or disability. An electric wheelchair that enables users suffering from impairment of the lower extremities due to paralysis caused by aging to manage their daily lives independently for social rehabilitation by allowing them to push up and back seat of the wheelchair ,to support their body weight at any position by stopping the chair, and to operate the movement of the wheel chair by using their arms, even at rest position.



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| 2 | 202221010613 | TEMP/E-1/9717/2022-MUM | 1600 | 5141 | FORM 1 | Full | Wheel Chair for Paralysis Patient |

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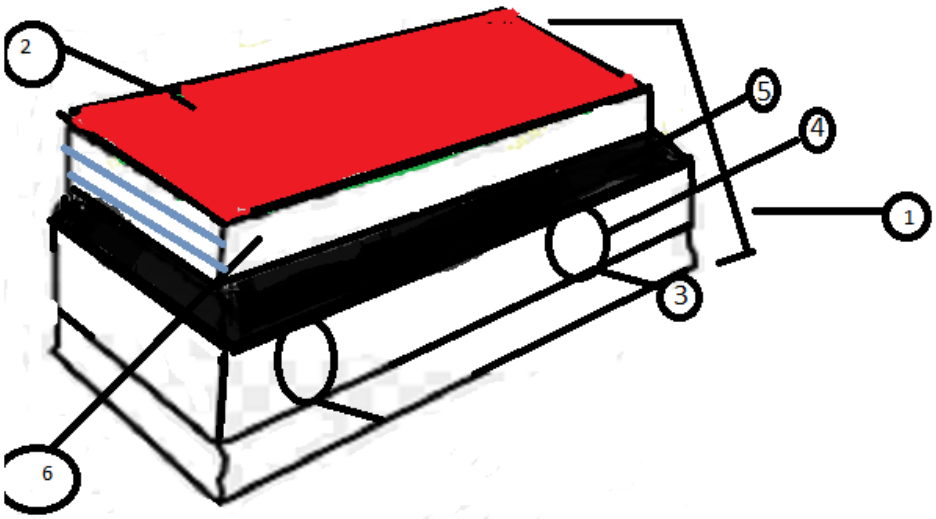
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# P48 MULTI PURPOSE REUSABLE DUSTER

**Patent Application No. - 202221010622**

**ABSTRACT**

This innovation is based on providing a multipurpose reusable duster with roller to collect the dust of duster in a tray and clean the black board with a wet sponge. Front side of duster will have dry cloth to clean the material written on board ,once the duster is full of dust it will be cleaned with roller attached on back side which will be flipped on duster and front side will have wet sponge that will clean the board. Also after multiple use of the dry duster it can be replaced with the new dry layer duster due to new Velcro attachment.



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| 1 | E-106/579/2022/MUM | 202221010622 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010622 | TEMP/E-1/9894/2022-MUM | 1600 | 5147 | FORM 1 | Full | MULTIPURPOSE REUSABLE DUSTER |

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| N-0000928378 | Online Bank Transfer | 2802220011304 | 1600.00 | 1475001020000001 |

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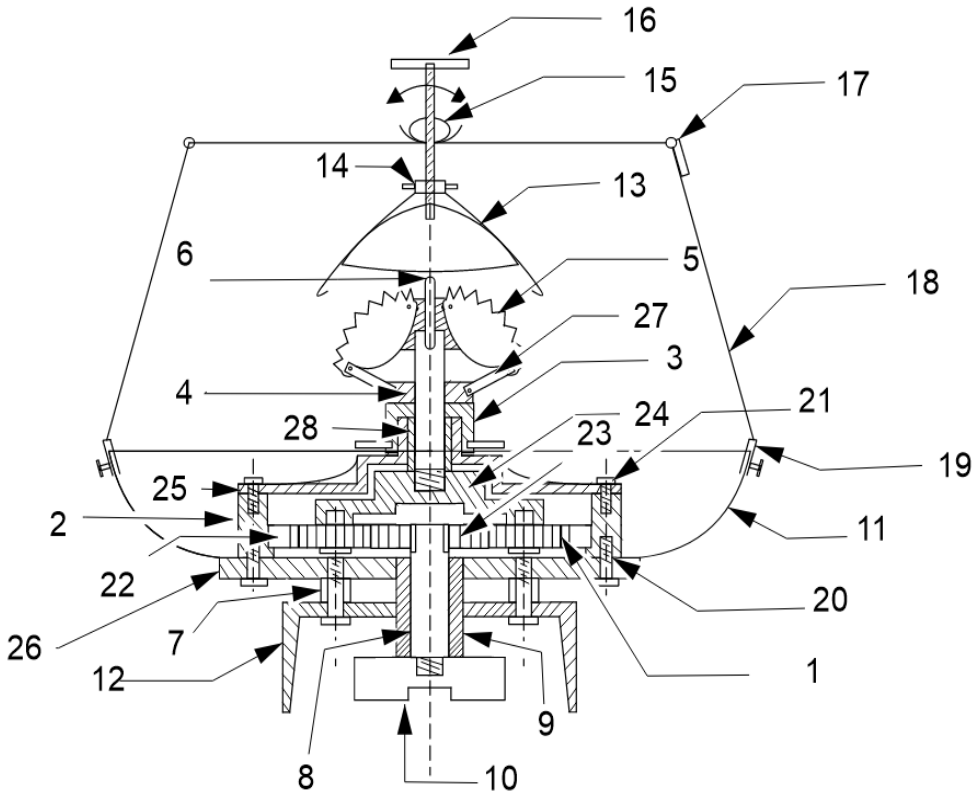
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# P49 LOW SPEED COCONUT SCRAPER APPARATUS WITH COCONUT HOLDING APPARATUS FOR SAFE SCRAPING

**Patent Application No. - 202221010557**

**ABSTRACT**

A coconut scraper is a utility model as an attachment to scrape and remove the coconut meat/flesh from half shell of coconut with safety attachment for holding and moving coconut half during scraping and used as an attachable device with blenders, food processors and juicer mixers. The attachment has bowl (11) to collect all scraped coconut and adjustable scraper blades (5) which can be adjusted as per size of coconut to cover maximum coconut flesh from half coconut shell and is one of main component of this product and is coupled with rotating shaft through Speed reducing gear train and Coconut holding apparatus for safe scraping of flesh from coconut shell. Base is flexible to accommodate coupling arrangement blenders, food processors and juicers.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010557 | TEMP/E-1/11961/2022-MUM | 1600 | 5093 | FORM 1 | Full | LOW SPEED COCONUT SCRAPER APPARATUS WITH COCONUT HOLDING APPARATUS FOR SAFE SCRAPING |
| 2 | E-106/541/2022/MUM | 202221010557 | 0 | -1 | FORM28 | Full | |

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# P50 SOLAR OPERATED WET GARBAGE COMPOSTING UNIT

**Patent Application No. - 202221010584**

**ABSTRACT**

The present invention relates waste management and helps to stay away from the land filling by wet garbage and problems associated with it. The present invention provides a solar operated wet garbage composting unit which decomposing the wet garbage at the source.

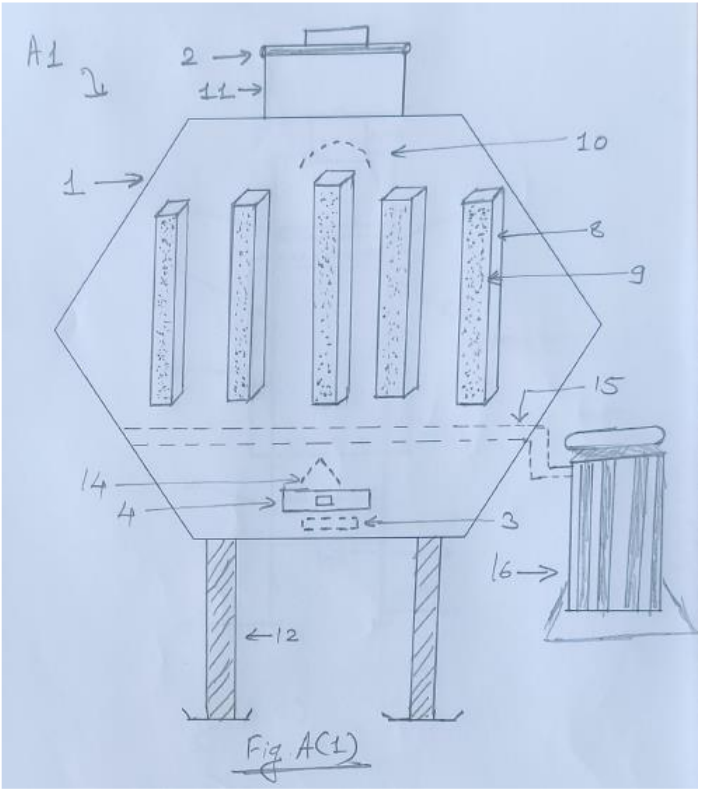


Fig A(1)

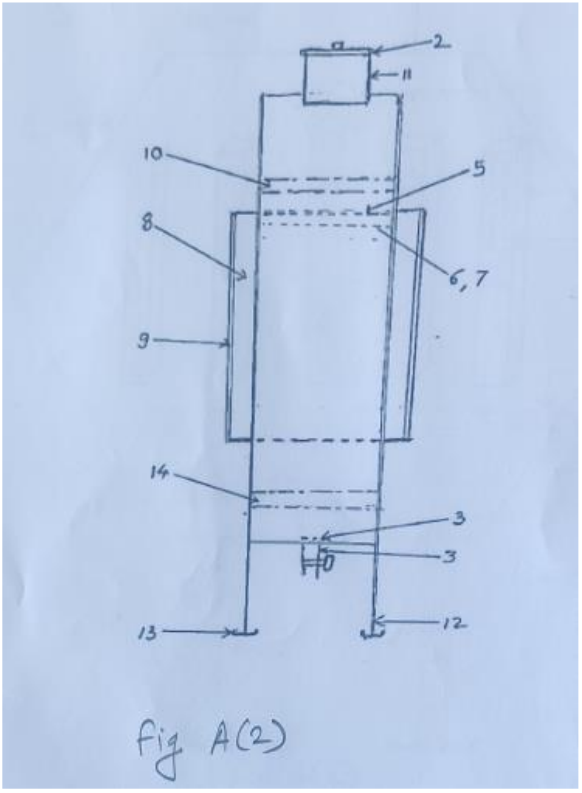


Fig A(2)

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| 2 | 202221010584 | TEMP/E-1/11613/2022-MUM | 1600 | 5120 | FORM 1 | Full | SOLAR OPERATED WET GARBAGE COMPOSTING UNIT |

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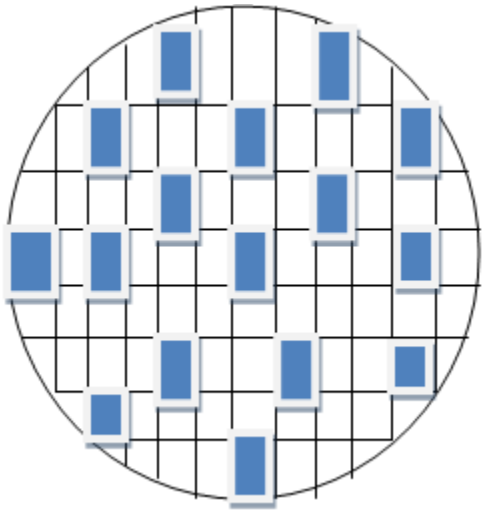
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# P51 PCM MESH FOR MAINTAINING TEMPERATURE OF WATER

**Patent Application No. - 202221010588**

**ABSTRACT**

The present invention relates generally to handling and dealing with water in day to day life chores. It maintains the temperature of water thereby disturbing the body temperature stability and working mood of the person. The present invention thus promises to maintain the temperature of water well beyond ambient temperature by storing the heat, charging it and then giving it off as and when required. Latent Heat is utilized for this purpose and latent heat is said to stored well beyond the ambient temperature.



**Applicants :** 1. PCCOER, 2. Prof. R. M. PATIL

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010588 | TEMP/E-1/11619/2022-MUM | 1600 | 5122 | FORM 1 | Full | PCM MESH FOR MAINTAINING TEMPERATURE OF WATER |
| 2 | E-106/564/2022/MUM | 202221010588 | 0 | -1 | FORM28 | Full | |

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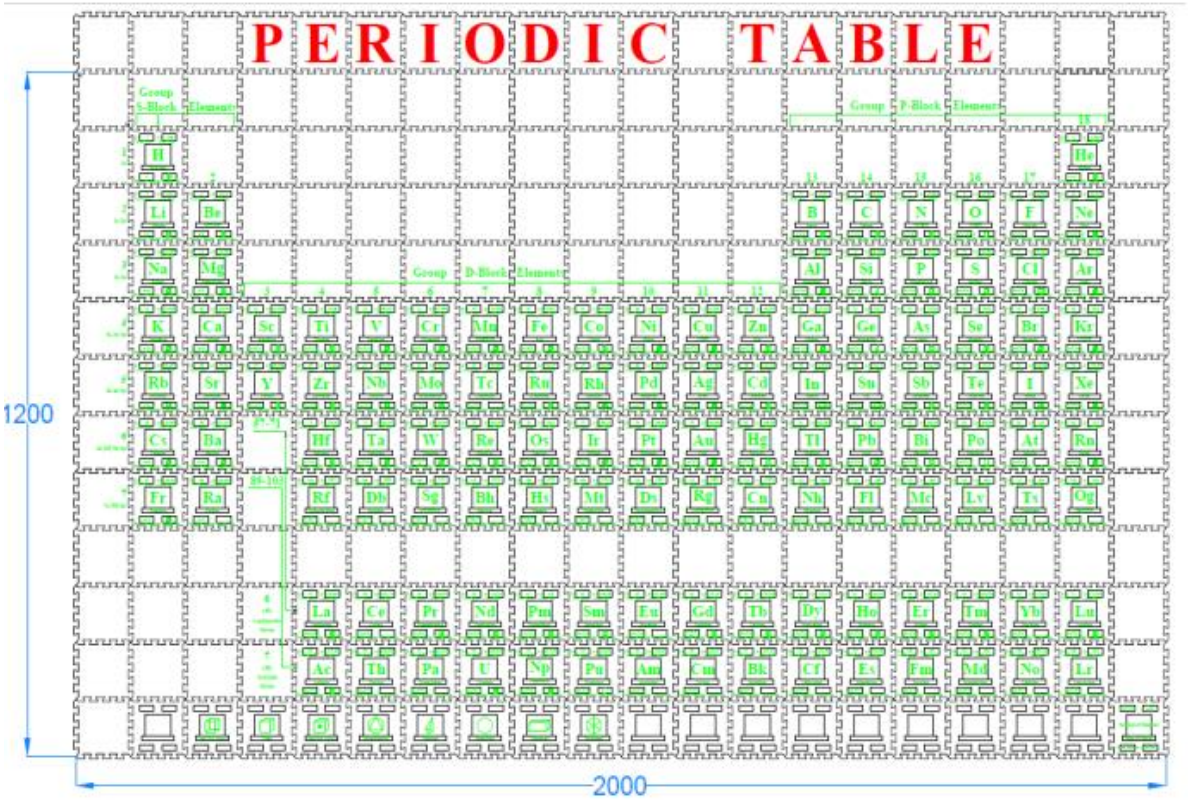
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# P52 INTERLOCKING JIGSAW PERIODIC TABLE PLAY-MAT PUZZLE TOY-PHYSICAL PROPERTIES

**Patent Application No. - 202221010578**

**ABSTRACT**

Interlocking Jigsaw Periodic Table Play-Mat Puzzle Toy is a toy to play with its cells which comprising of the elements of the periodic table along with the details of the element; each cell consists of subparts cut into it which can be removed and can be fitted again at the same place; the removable subparts consists of the Boiling Point and Physical State printed on it; each cell has jigsaw on the periphery of it so that it can be fitted any location in the table; the learner can play with the jigsaw puzzle in various ways like removing one by one entity like Atomic radius, Melting Point, Boiling Point and Physical State etc.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010578 | TEMP/E-1/11945/2022-MUM | 1600 | 5113 | FORM 1 | Full | "Interlocking Jigsaw Periodic Table Play-Mat Puzzle Toy-Physical Properties" |
| 2 | E-106/556/2022/MUM | 202221010578 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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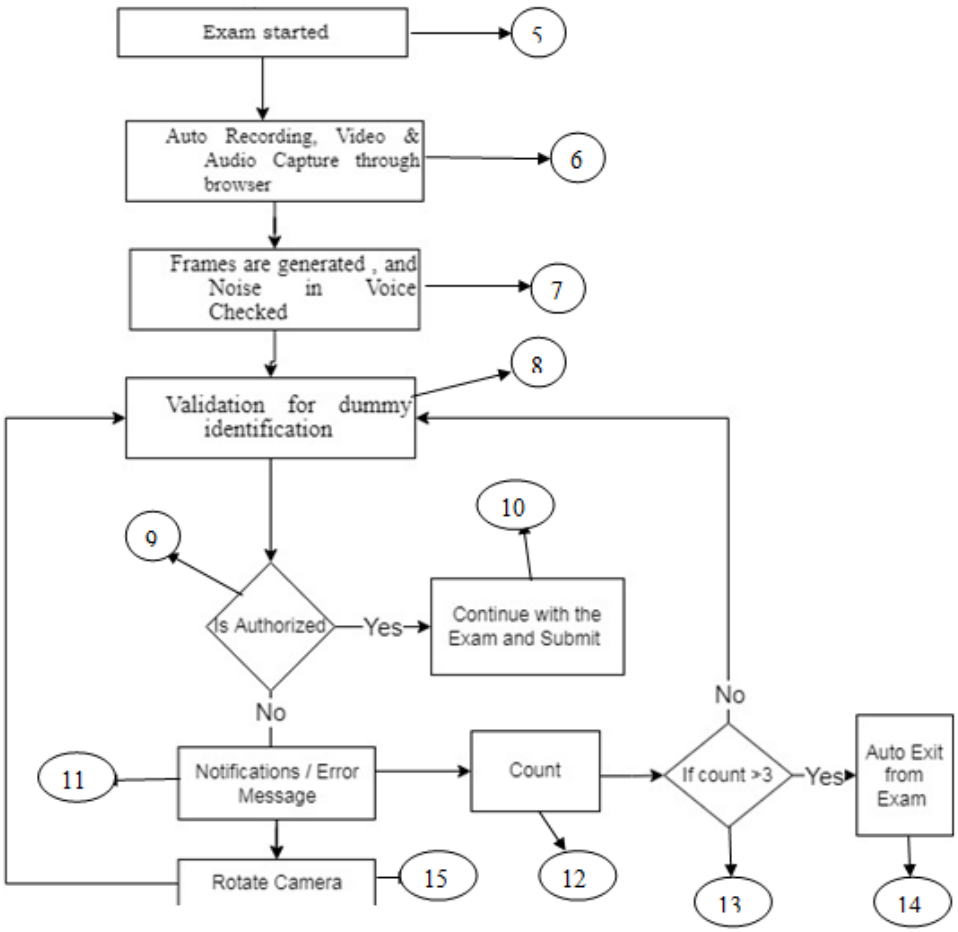
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# P53 SYSTEM AND PROCESS TO IDENTIFY THE DUMMY STUDENT IN ONLINE EXAMINATION

**Patent Application No. - 202221010662**

**ABSTRACT**

Online examination usage is likely going to increase for various types of Institute examinations, competitive entrance tests, and recruitment tests. The present invention is the system and process to check the malpractices done in online examinations with the use of web camera, microphone, desktop or Laptop activity, now this system and process identifies that whether the student giving the exam is dummy or original. And identify all kinds of malpractices did by students so that online examinations will be smoothly conducted.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | 202221010662 | TEMP/E-1/9880/2022-MUM | 1600 | 5166 | FORM 1 | Full | SYSTEM AND PROCESS TO IDENTIFY THE DUMMY STUDENT IN ONLINE EXAMINATION |
| 2 | E-106/587/2022/MUM | 202221010662 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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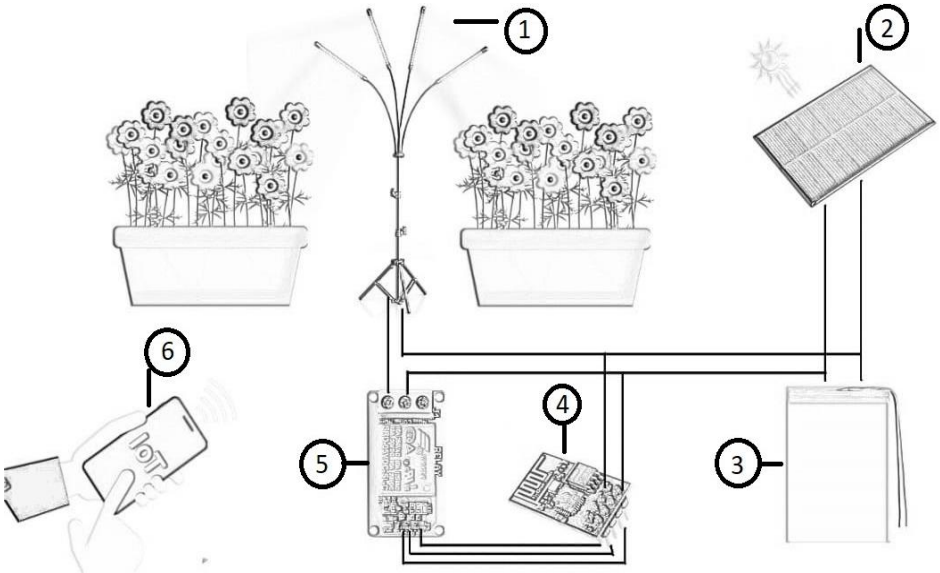
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# P54 AUTOMATED SOLAR LANTERN FOR POTTED PLANTS

**Patent Application No. - 202221010609**

**ABSTRACT**

Plants require a daily exposure to sunlight or any artificial source of light or light emitted by solar cells for 6-8 hours every day. The solar cells or LED Grow light are a sustainable source of light. Their wavelength matches with that needed by plants to photosynthesize. However an excess of this light causes a disturbance in the biorhythm of the plant. An automated system consisting IoT (Internet of Things) and a medium like cloud can optimize the solar light for plants by cutting off the source of light after the optimum availability for a potted plant. With the means of IOT we can trigger the Solar Grow light in the absence of sunlight at any time and from any place of world. This source will optimize the amount of photosynthesis.




**Applicants :** 1. PCCOER, 2. Prof. Dr. J. R. PAI, 3. Mr. A. KEDARI

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|---|---|---|---|---|---|---|---|
| 1 | E-106/572/2022/MUM | 202221010609 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010609 | TEMP/E-1/9943/2022-MUM | 1600 | 5138 | FORM 1 | Full | Automated Solar Lantern for Potted Plants |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
|---|---|---|---|---|
| N-0000928356 | Online Bank Transfer | 2802220010932 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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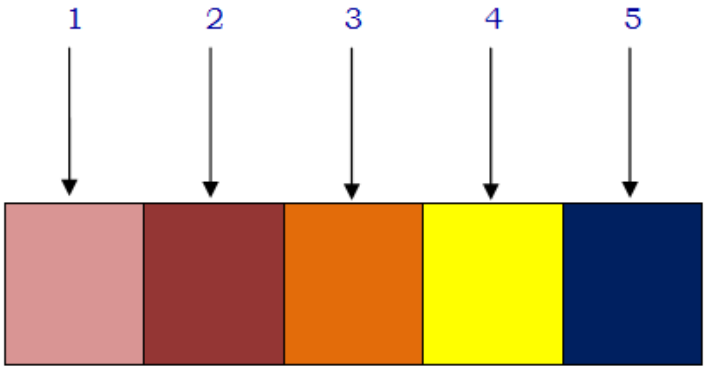
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# P55 AN OVERTAKE INDICATOR IN REAR LIGHT ASSEMBLY OF VEHICLE FOR SAFE PASSAGE FOR OVERTAKING

**Patent Application No. - 202221010633**

**ABSTRACT**

The present invention relates generally to the rear light assembly of a vehicle. Specifically, it adds a light, which is proposed to be of blue colour, for effective and accurate communication for overtaking. When the rear vehicle approaches the front vehicle for overtaking, the driver sounds horn or flashes light to ask for permission for overtaking. In response, if the front driver sees that there is no approaching vehicle from the opposite side and space and time is available for overtaking, he switches on the overtaking light and signals "Yes" to the rear vehicle for overtaking.



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|---|---|---|---|---|---|---|---|
| 1 | E-106/582/2022/MUM | 202221010633 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010633 | TEMP/E-1/9852/2022-MUM | 1600 | 5151 | FORM 1 | Full | AN OVERTAKE INDICATOR IN REAR LIGHT ASSEMBLY OF VEHICLE FOR SAFE PASSAGE FOR OVERTAKING |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928400 | Online Bank Transfer | 2802220011839 | 1600.00 | 1475001020000001 |

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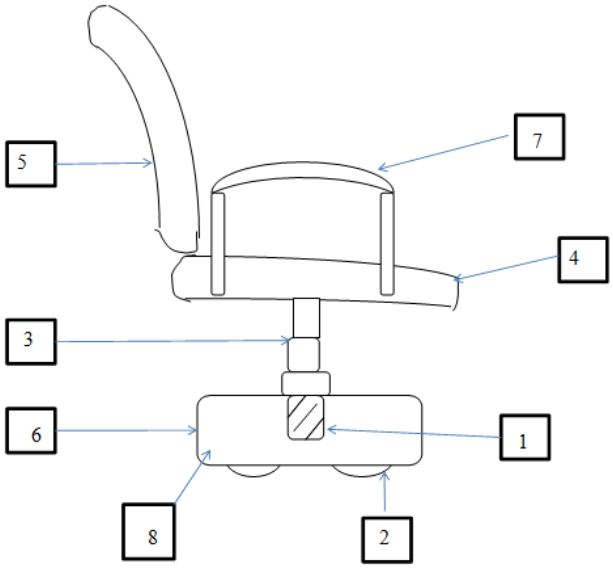
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# P56 AUTOMATIC ADJUSTING CHAIR FOR COMFORTABLE SEATING WITHOUT USING HANDS

**Patent Application No. - 202221010577**

**ABSTRACT**

The chair is one of the basic things of our life and it is still manual in this high tech century. So it will be great if the chair will able to move automatically. So, the present innovation presenting the automatic chair, on pressing the push button (1) chair moves back and remain there for 10 sec. So that person can seat on it. And after 10 sec. it will move forward towards the table. So there is no need to touch the chair by hand and adjust it. We make certain that the individual is seated comfortably. On a single press, the chair can travel forward or backwards automatically.



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**Docket No 11375** **Date/Time 2022/02/28 14:07:53**

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | E-106/555/2022/MUM | 202221010577 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010577 | TEMP/E-1/12300/2022-MUM | 1600 | 5111 | FORM 1 | Full | AUTOMATIC MOVING CHAIR WITHOUT USING HANDS |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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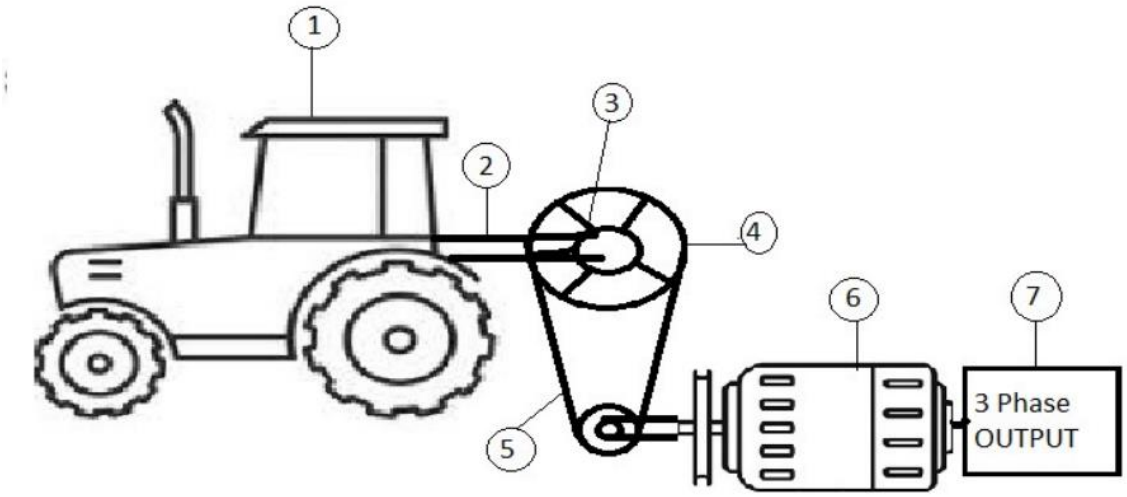
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# P57 ELECTRICITY GENERATION FOR AGRICULTURE BY USING TRACTOR

**Patent Application No. - 202221010564**

**ABSTRACT**

Reduction of both pollutant emissions and fossil fuel dependency is an objective of energy policies worldwide. In many countries, governments promote the use of efficient vehicles like the hybrid electric vehicle. Incorporation of electric drives in tractor and agriculture machinery presents advantages in terms of increased energy efficiency and expanded functionalities. Tractor electrification takes advantage of decoupling loads and drives from the engine, which allows operating the latter at its highest efficiency point. Major advantages of machinery electrification are torque and speed control, noise reduction, and a more flexible design. In this paper, a review of the state-of-the-art of agriculture machinery high voltage electrification is presented.




**Applicants :** 1. PCCOER, 2. Mr. K. D. BHALEKAR, 3. Ms. S. B. GHOLAP, 4. Ms. B. L. GAWALI

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|---|---|---|---|---|---|---|---|
| 1 | E-106/546/2022/MUM | 202221010564 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010564 | TEMP/E-1/10782/2022-MUM | 1600 | 5099 | FORM 1 | Full | Electricity Generation for Agriculture by using Tractor |

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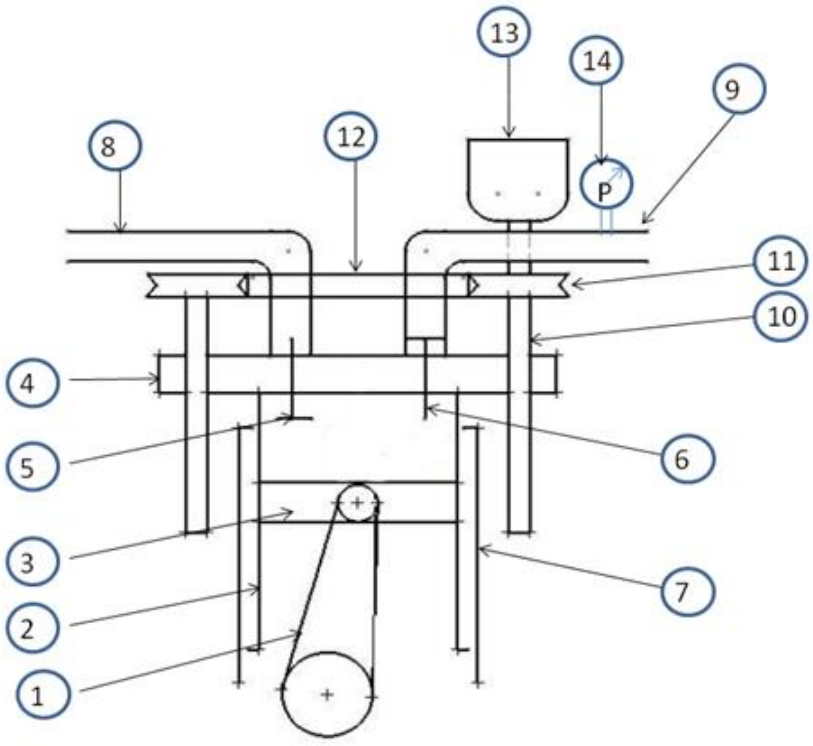
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# P58 AUTOMATED PRESSURE VARIABLE RECIPROCATING COMPRESSOR

**Patent Application No. - 202221010555**

**ABSTRACT**

The present invention involves an automatically vary air pressure at outlet of reciprocating compressor as per the requirement for the different application. We can adjust the outlet pressure of the compressor according to our needs by changing the position of the compressor head. This system is help to reduce power consumption required for run the air compressor.




**Applicants :** 1. PCCOER, 2. Prof. V. P. DESAI

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
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| 1 | 202221010555 | TEMP/E-1/11587/2022-MUM | 1600 | 5091 | FORM 1 | Full | AUTOMATED PRESSURE VARIABLE RECIPROCATING COMPRESSOR |
| 2 | E-106/539/2022/MUM | 202221010555 | 0 | -1 | FORM28 | Full | |

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Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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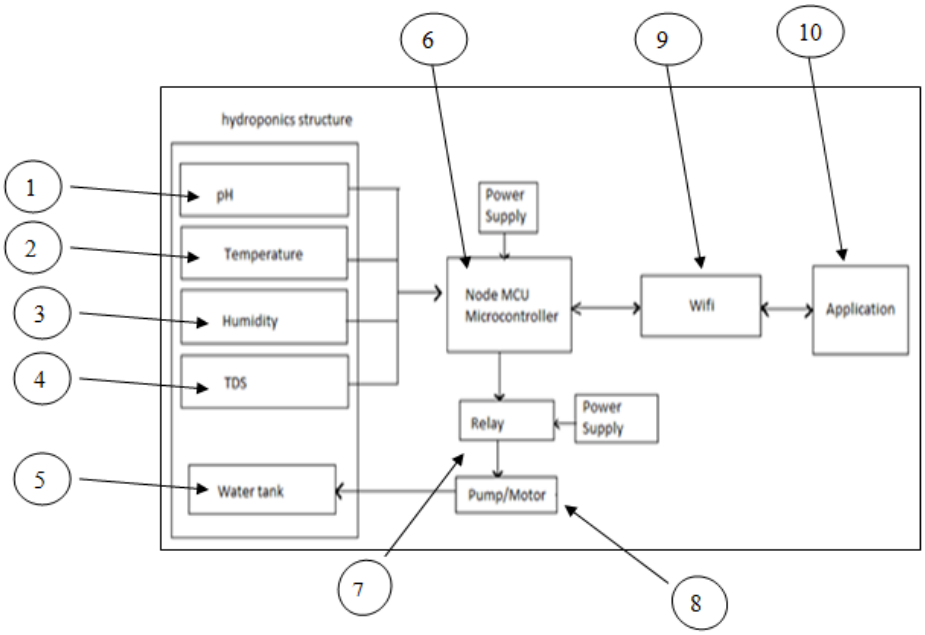
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# P59 IOT BASED AUTOMATED HYDROPONICS FARMING USING SENSORS AND REAL TIME CROP MONITORING TO PROVIDE NUTRITIOUS CROP PRODUCTION

**Patent Application No. - 202221010601**

## ABSTRACT

Hydroponics is an agricultural method of producing plants in an artificial environment without using soil as a medium. The nutrients are provided through water as per the specific requirement of the crop. Thus optimizing the growing conditions to improve the production. Hydroponically cultivated plants have a much faster growth rate and are higher yielding than that of plants grown in soil. Because they are cultivated in containers, and due to the absence of soil, pest and disease control is at an optimum. In an age where incessant use of pesticides and fertilizers over years has degraded our land and the nutrient value of our soil, hydroponics provides a new alternative to control the immediate environment of the crops. From temperature, humidity to pH, nitrogen and water, hydroponics farming allows the farmer to control every important factor needed for the healthy and disease-free growth of their crop. It also allows us to grow seasonal crops at any desired time of the year, hence allowing the farmers to sell their produce at times when the demand is high and supply is low. Hydroponics farming also allows you to make the best use of their area. Thus, allowing one to produce twice, thrice, etc. times than their original crop production.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | E-106/570/2022/MUM | 202221010601 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010601 | TEMP/E-1/10685/2022-MUM | 1600 | 5132 | FORM 1 | Full | IOT BASED AUTOMATED HYDROPONICS FARMING USING SENSORS AND REAL TIME CROP MONITORING TO PROVIDENUTRITIOUSCROPPRODUCTION |

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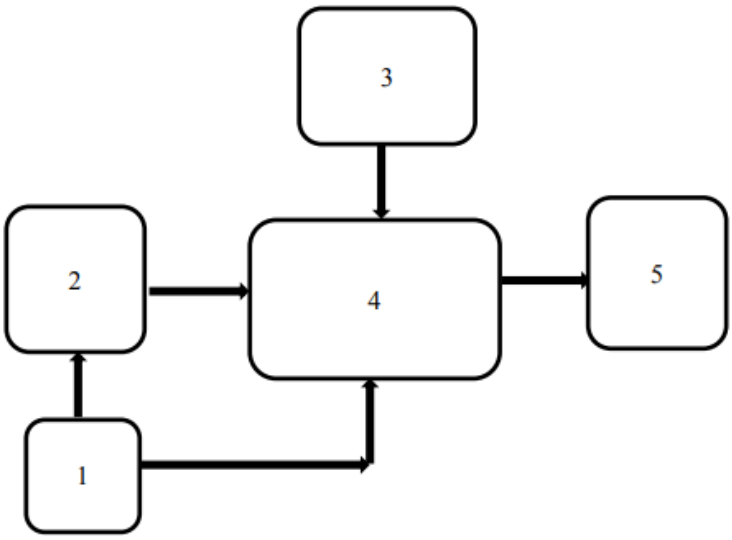
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# P60 ALERT SYSTEM FOR SIDE STAND RETRACTION IN MOVING BICYCLE

**Patent Application No. - 202221010732**

**ABSTRACT**

The present invention relates to a system for bicycles, more specifically, the present disclosure relates a system to alert side stand retraction in moving bicycles. This system gives the alert through a buzzer while the side stand is non-retracted in moving bicycles. The main components of the system are a microcontroller, rotary optical encoder, Limit switch, and power supply. The present invention consists of a rotary optical encoder which is powered by a power supply. Rotary optical encoder connected to the microcontroller. Also, the Limit switch is connected with the stand, and output is given to the microcontroller. Initially, the speed of the bicycle was checked by a rotary optical encoder. If the bicycle is in a running position check position of the side stand by the limit switch. If the side stand is on a retracted position, get alert through Buzzer. This system is easy to use and the chances of error are very less.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010732 | TEMP/E-1/12351/2022-MUM | 1600 | 5194 | FORM 1 | Full | ALERT SYSTEM FOR SIDE STAND RETRACTION IN MOVING BICYCLE |
| 2 | E-106/596/2022/MUM | 202221010732 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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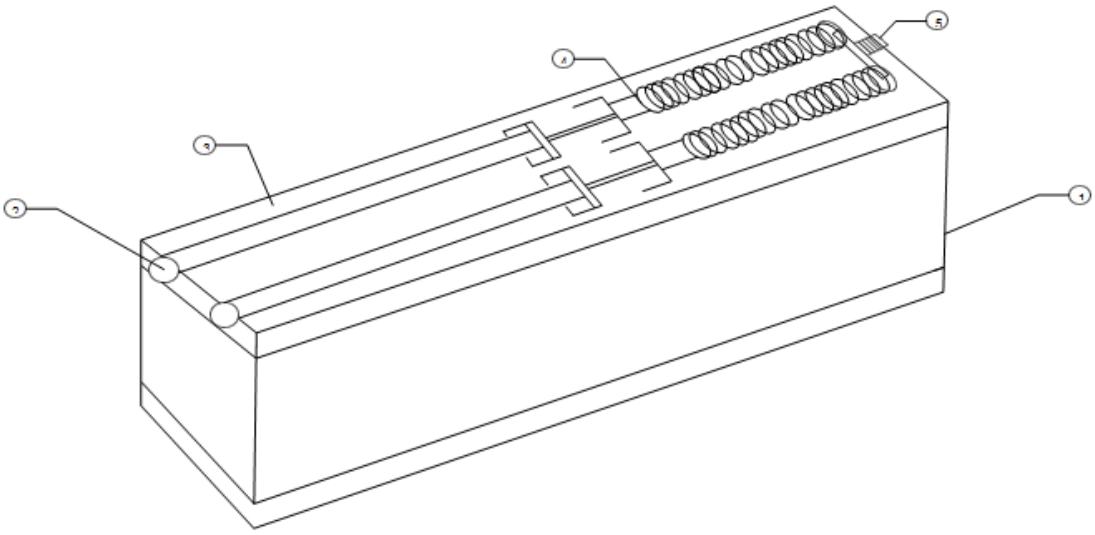
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# P61 DUSTER WITH ATTACHABLE PUSH BUTTON CHALK BOX

**Patent Application No. - 202221010559**

**ABSTRACT**

The utility device relates to the duster and chalk box used in teaching or other active process. This invention is based on the simplest way to keep the duster & chalk together in one box with push button assembly. Generally while taking the class, teacher should keep the various material with him like book ,notes ,chalk & duster etc. related to this. But sometimes out of this material he forgot the take chalk & duster. For the solution of this problem duster with attachable push button chalk box is made so we and easily carry and used both without forgetting one of them.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010559 | TEMP/E-1/10751/2022-MUM | 1600 | 5095 | FORM 1 | Full | DUSTER WITH ATTACHABLE PUSH BUTTON CHALK BOX |
| 2 | E-106/543/2022/MUM | 202221010559 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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Total Amount : ₹ 1600
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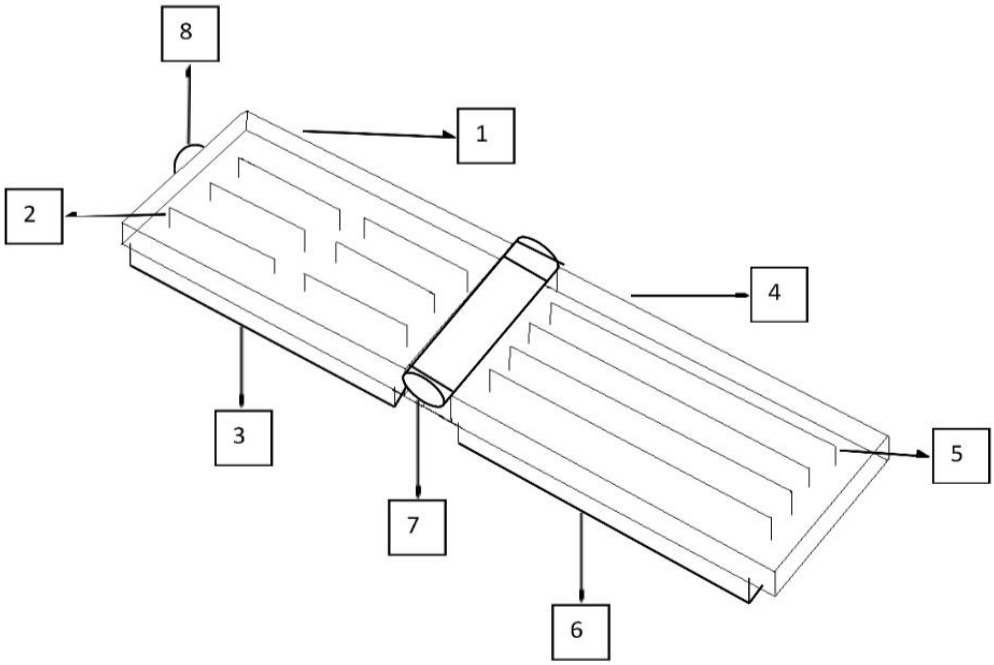
# P62 DUSTER-BOX WITH IN-BUILT CHALK AND PEN HOLDING STRUCTURES

**Patent Application No. - 202221010574**

**ABSTRACT**

There are existing products having dusters and markers contained in a single product. But there takes place a time consuming process to find many necessary materials all stored in different places. To solve this issue the present invention can be used.

The present invention can be used worldwide as educational institutes and places which provide education are spreaded all over the world. Another utility advantage of duster-box along with storage of numerous materials which are chalks, markers, pens etc. is time saving as it reduces the time consumed by the person to search for these separately.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010574 | TEMP/E-1/10738/2022-MUM | 1600 | 5108 | FORM 1 | Full | Duster-box with in-built chalk and pen holding structures |
| 2 | E-106/552/2022/MUM | 202221010574 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928300 | Online Bank Transfer | 2802220009663 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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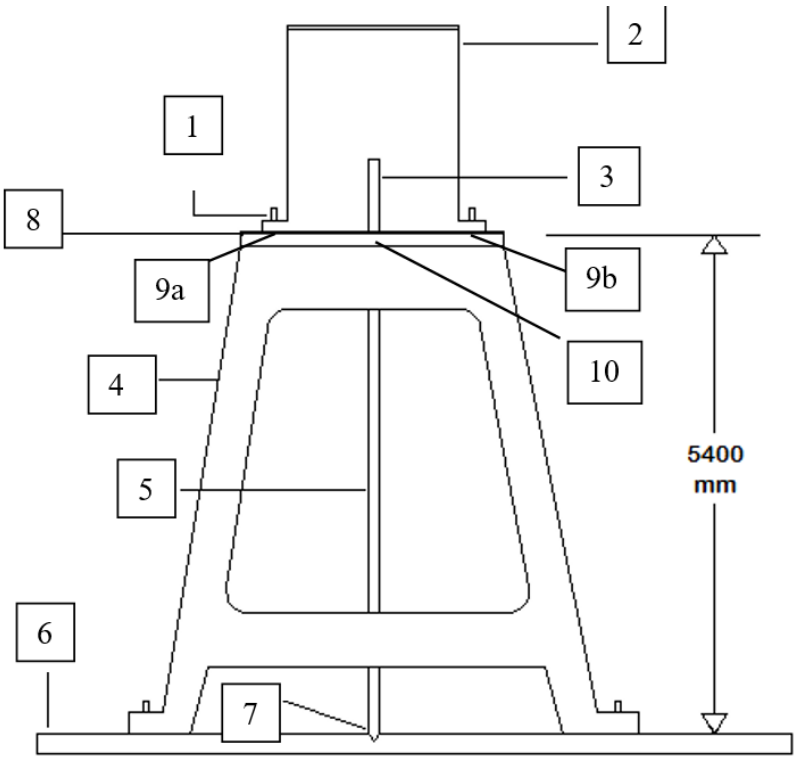
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# P63 PULL-TEST APPARATUS FOR IRON BAR REINFORCED CONCRETE TO MEASURE BOND STRENGTH

**Patent Application No. - 202221010580**

**ABSTRACT**

Reinforced concrete is the most successful material used in the construction industry. Also used worldwide. The utility of reinforced concrete as a structural material is derived from composite action of takes place between reinforcing bars and concrete at their interface known as a bond. In recent years, Reinforced concrete is widely used in the construction industry as it can improve the durability of the structural member if correctly mixed and cast. There are insufficient guidelines for bond behavior of reinforcing steel bars to reinforced concrete and this one of the reasons limiting their use in the practice. The proposed setup is useful for bond strength of reinforced concrete is investigated.




**Applicants :** 1. PCCOER, 2. Prof. S. S. SALVI, 3. Prof. S. S. BOBADE

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010580 | TEMP/E-1/12298/2022-MUM | 1600 | 5115 | FORM 1 | Full | PULL-TEST APPARATUS FOR IRON BAR REINFORCED CONCRETE TO MEASURE BOND STRENGTH |
| 2 | E-106/558/2022/MUM | 202221010580 | 0 | -1 | FORM28 | Full | |

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|---|---|---|---|---|
| N-0000928309 | Online Bank Transfer | 2802220009835 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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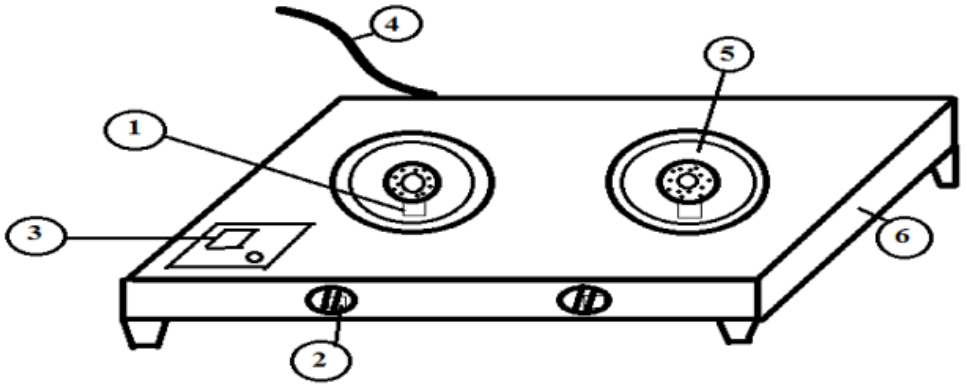
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# P64 SAFETY WHISTLE BLOWER FOR LPG/CNG

**Patent Application No. - 202221010581**

**ABSTRACT**

The present invention relates to a safety mechanism installed to error proof usage of LPG/CNG gas stove. When installed according to the requirements the system will be able to detect if combustible gas is being released while there is no flame thus warning user to correct error and stay safe from for hazard. This system will sound a buzzer after identifying the error. The ultimate aim is to ensure a safer environment for households where LPG/CNG gas is utilized.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010581 | TEMP/E-1/11436/2022-MUM | 1600 | 5116 | FORM 1 | Full | SAFETY WHISTLEBLOWER FOR LPG/CNG |
| 2 | E-106/559/2022/MUM | 202221010581 | 0 | -1 | FORM28 | Full | |

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Amount in Words: Rupees One Thousand Six Hundred Only

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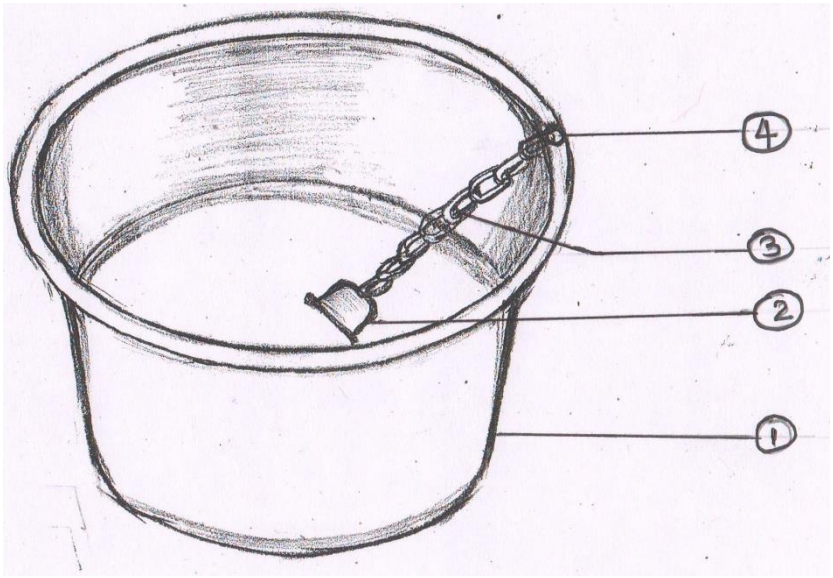
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# P65 OOZING OUT MILK FROM CONTAINAR DURING HEATING

**Patent Application No. - 202221010529**

**ABSTRACT**

The present invention provides a mechanism due to which the milk will not oozed out during heating. This will minimize the gas burner cleaning efforts after milk overflow and oozed out of pot. This pot is also used for other common purposes after removal of milk. It's easy to clean the pot after use. The present invention provides economical solution for the given problem.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010529 | TEMP/E-1/12251/2022-MUM | 1600 | 5070 | FORM 1 | Full | OOZING OUT MILK FROM CONTAINER DURING HEATING |
| 2 | E-106/527/2022/MUM | 202221010529 | 0 | -1 | FORM28 | Full | |

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Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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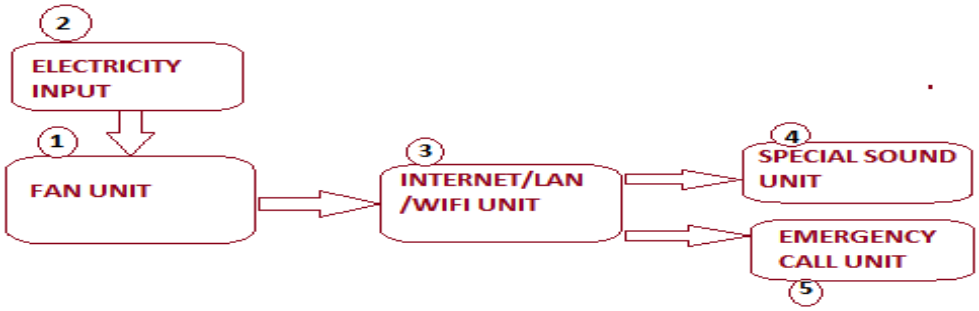
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# P66 LIFE SAVING FAN

**Patent Application No. - 202221010655**

**ABSTRACT**

This application describes in detail a mechanism for automatic alteration of Ceiling fan for the control over suicide by hanging. It monitors and controls the suicidal attempts by creating special type of sound into the surroundings continuously and giving massage to emergency contacts.



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|---|---|---|---|---|---|---|---|
| 1 | 202221010655 | TEMP/E-1/9866/2022-MUM | 1600 | 5161 | FORM 1 | Full | LIFE SAVING FAN |
| 2 | E-106/585/2022/MUM | 202221010655 | 0 | -1 | FORM28 | Full | |

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Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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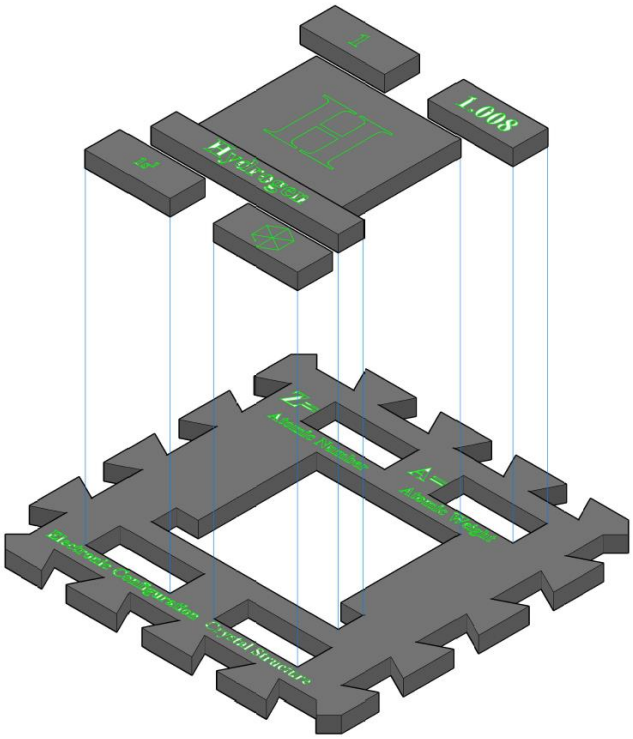
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# P67 INTERLOCKING JIGSAW PERIODIC TABLE PLAY-MAT PUZZLE TOY

**Patent Application No. - 202221010550**

**ABSTRACT**

Interlocking Jigsaw Periodic Table Play-Mat Puzzle Toy is a toy to play with its cells which comprising of the elements of the periodic table along with the details of the element; each cell consists of subparts cut into it which can be removed and can be fitted again at the same place; the removable subparts consists of the atomic number, mass number, name, electronic configuration, crystal structure and the state of the element printed on it; each cell has jigsaw on the periphery of it so that it can be fitted any location in the table; the learner can play with the jigsaw puzzle in various ways like removing one by one entity like atomic number, mass number etc.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010550 | TEMP/E-1/11574/2022-MUM | 1600 | 5087 | FORM 1 | Full | "Interlocking Jigsaw Periodic Table Play-Mat Puzzle Toy" |
| 2 | E-106/535/2022/MUM | 202221010550 | 0 | -1 | FORM28 | Full | |

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| N-0000928264 | Online Bank Transfer | 2802220008841 | 1600.00 | 1475001020000001 |

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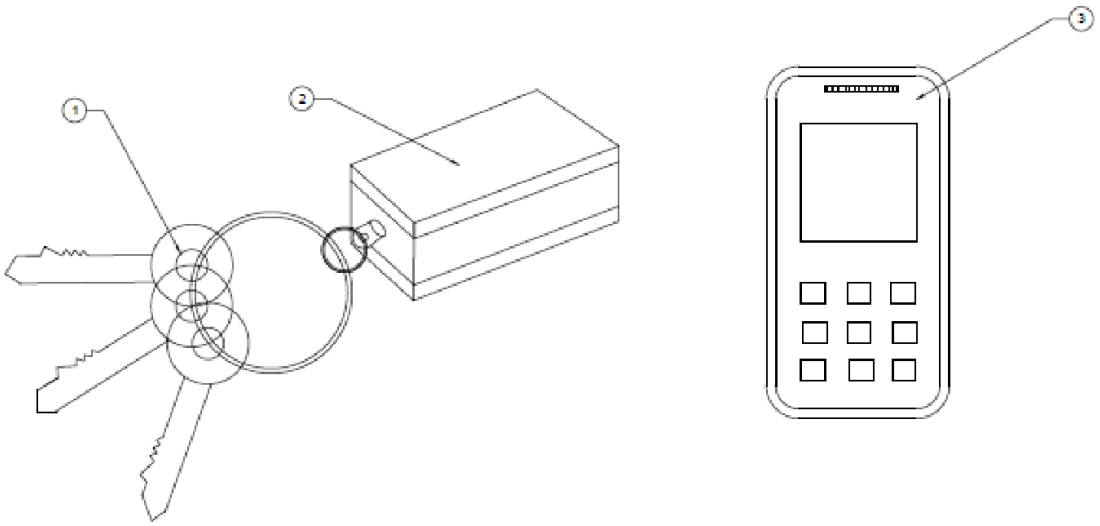
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# P68 WIRELESS KEY LOSS PREVENTION SYSTEM FOR ALL KIND OF LOCKING ARRANGEMENTS

**Patent Application No. - 202221010576**

**ABSTRACT**

The present invention provides an improved and efficient control of items, such as keys equipped with sensor and synchronized with mobile device, coupled with an accelerometer. An alarm activates when the item, such as a key, is separated at a distance from the mobile, which can efficiently track and prevent the loss or misplacement of keys. This improved control is well suited for use in typical institutional facilities and other secure buildings or structures.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010576 | TEMP/E-1/11603/2022-MUM | 1600 | 5110 | FORM 1 | Full | WIRELESS KEY LOSS PREVENTION SYSTEM FOR ALL KIND OF LOCKING ARRANGEMENTS |
| 2 | E-106/554/2022/MUM | 202221010576 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
|---|---|---|---|---|
| N-0000928301 | Online Bank Transfer | 2802220009669 | 1600.00 | 1475001020000001 |

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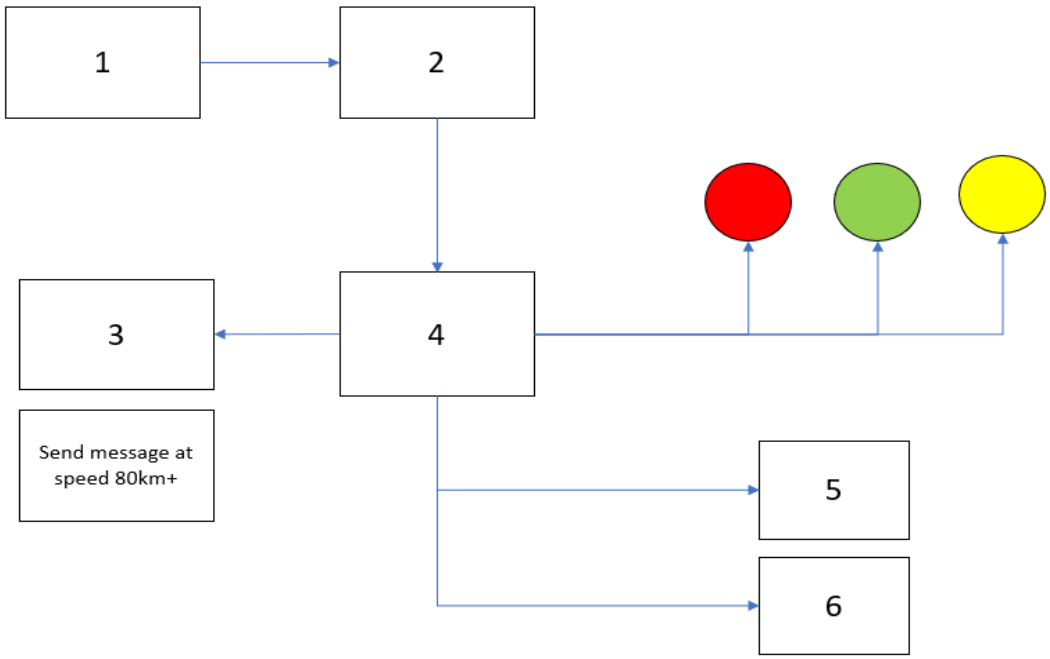
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# P69 TYRE PRESSURE ALARM SYSTEM ALONG WITH SPEED LIMIT SMS FACILITY

**Patent Application No. - 202221010681**

**ABSTRACT**

Nowadays we always drive a car without checking the air pressure in the tyres Due to this the car becomes slow and can damage the tyres if the air pressure is not maintained. We often have to check the air pressure in the tyre manually which is time consuming. And the sudden reduction in the air pressure can also lead to accidents as it affects the alignment of the wheels. Also sometimes the young kids among us drive the vehicle above the speed limit and the parents never know about it. It is harmful for both the driver and the other vehicles on the road. This invention will help us to notify about the air pressure in the tyres with alarm as well as the speed limit SMS facility.



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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010681 | TEMP/E-1/10675/2022-MUM | 1600 | 5171 | FORM 1 | Full | TYRE PRESSURE ALARM SYSTEM ALONG WITH SPEED LIMIT SMS FACILITY |
| 2 | E-106/589/2022/MUM | 202221010681 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928461 | Online Bank Transfer | 2802220013577 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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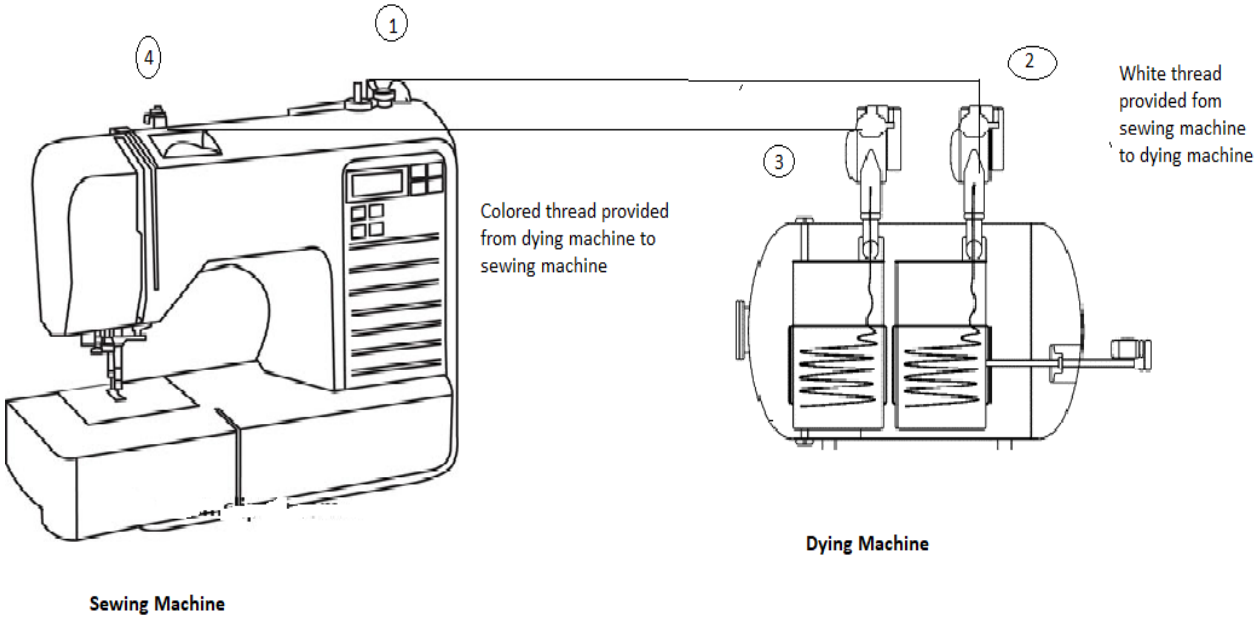
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# P70 SEWING MACHINE WITH COLOURED THREAD

**Patent Application No. - 202221011429**

**ABSTRACT**

The present invention relates generally to sewing machine which provides a colored thread for stitching. A white thread from sewing machine is provided to dying machine as a input. Dying machine dye the white thread according to the information received from the machine operator. The colored thread is provided to the sewing machine for stitching. This system will reduce the burden of keeping large number of colored thread as well as it saves time of the stitching.



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**Docket No 12354** **Date/Time 2022/03/03 14:09:52**

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**CBR Detail:**

| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Remarks |
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| 1 | E-106/624/2022/MUM | 202221011429 | 0 | ----- | FORM28 | |
| 2 | 202221011429 | TEMP/E-1/9842/2022-MUM | 1600 | 5578 | FORM 1 | SEWING MACHINE WITH COLOURED THREAD |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000930446 | Online Bank Transfer | 0303220010262 | 1600.00 | 1475001020000001 |

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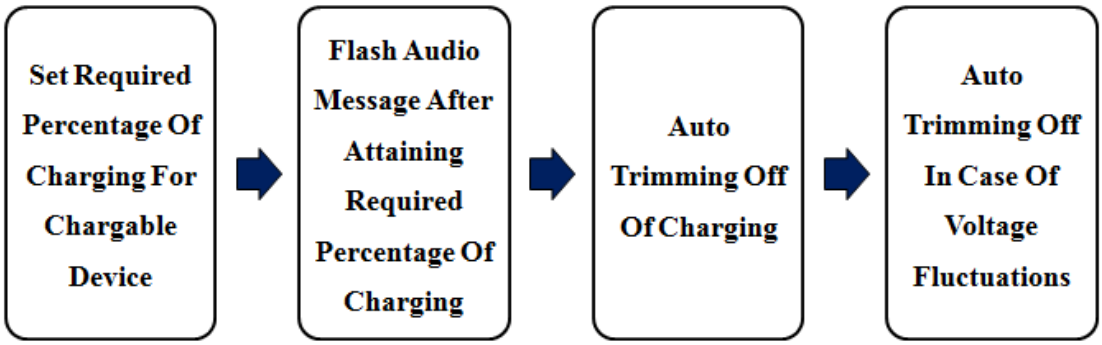
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# P71 AUTO TRIMMING OFF OF CHARGING OF CHARGEABLE DEVICES AFTER ATTAINING REQUIRED (SET) PERCENTAGE

**Patent Application No. - 202221010596**

**ABSTRACT**

This innovation is based on sensor provision for charging devices. Generally manufacturers of chargeable devices suggest charging the device within optimum percentage to enhance life of battery of device. Addition of sensors to chargeable device where we can set percentage up to required and the sensor will automatically trim off charging after attaining the required percentage of charging.



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**Email: principal@pccoer.in**

| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | E-106/568/2022/MUM | 202221010596 | 0 | -1 | FORM28 | Full | |
| 2 | 202221010596 | TEMP/E-1/12274/2022-MUM | 1600 | 5127 | FORM 1 | Full | AUTO TRIMMING OFF OF CHARGING OF CHARGEABLE DEVICES AFTER ATTAINING REQUIRED (SET) PERCENTAGE |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
|---|---|---|---|---|
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Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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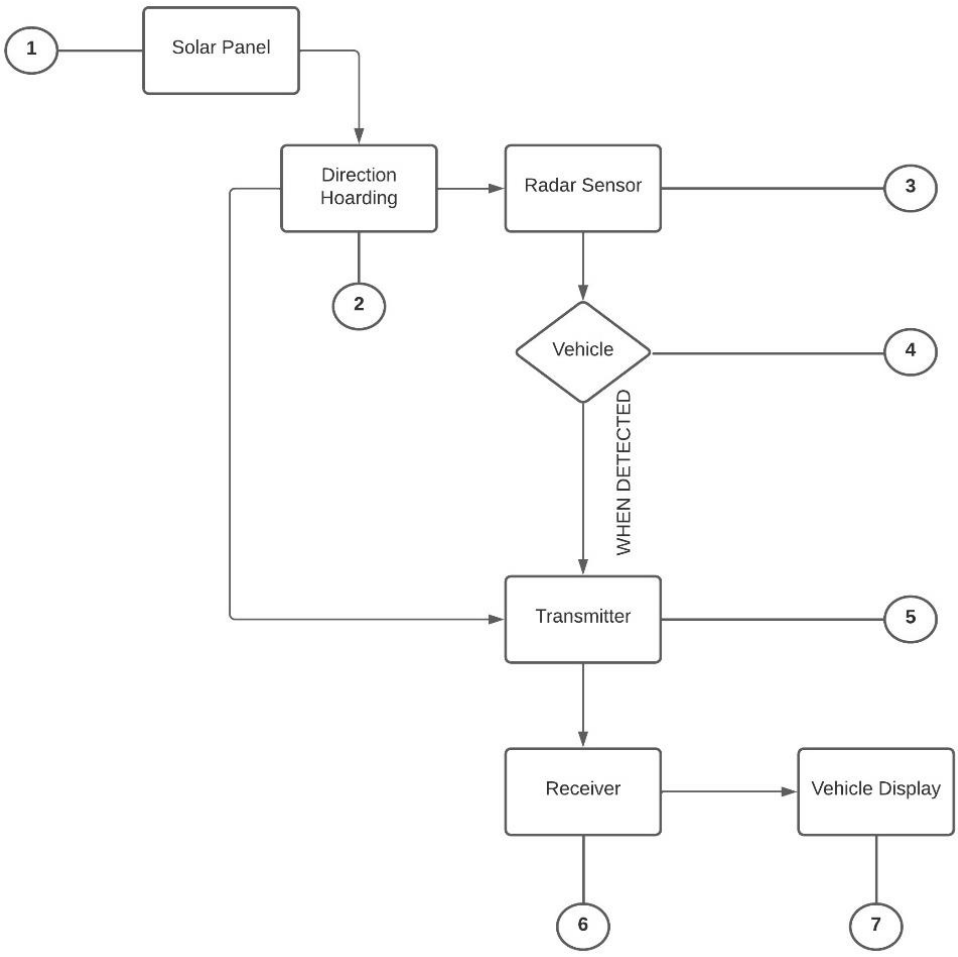
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# P72 SYSTEM TO DISPLAY DIRECTION HOARDING ON THE VEHICLE'S DISPLAY WHEN IT PASSES BY THE HOARDING

**Patent Application No. - 202221010654**

**ABSTRACT**

The present invention generally is the system to display the direction hoarding(2) on to the vehicle display(7) by detecting the vehicle(4) on the road using the radar sensor(3) and then transmitting the information present on the direction hoarding using transmitter(5). The data that is transmitted by the transmitter(5) is received by the receiver(6) present in the vehicle(4) and then it is displayed on the vehicle's screen(7). The radar sensor(3) and the transmitter(5) are powered by solar panel(1).



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**Docket No 11437** **Date/Time 2022/02/28 15:34:51**

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010654 | TEMP/E-1/11464/2022-MUM | 1600 | 5160 | FORM 1 | Full | SYSTEM TO DISPLAY DIRECTION HOARDING ON THE VEHICLE'S DISPLAY WHEN IT PASSES BY THE HOARDING |
| 2 | E-106/584/2022/MUM | 202221010654 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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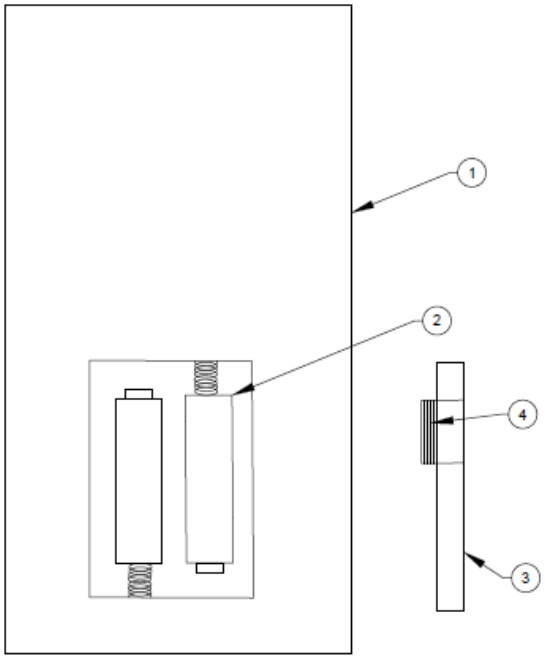
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# P73 SYSTEM FOR BATTERY CELL DISCHAREGE PREVENTION

**Patent Application No. - 202221010575**

**ABSTRACT**

The system comprises of push button and cell for preventing the battery cell from discharge when not in use and enhancing the battery life. The Remote is used to start the television or projector. The battery cell is given to start the operating of remote or working of remote. The push button is provided on the remote cover for cell arrangement in the remote. As we operate the push button the cell makes connection with the internal circuit of the remote so that we can operate it when needed. If don't operate the push button we will not able to operate the remote.



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**Email: principal@pccoer.in**

| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010575 | TEMP/E-1/11948/2022-MUM | 1600 | 5109 | FORM 1 | Full | SYSTEM FOR BATTERY CELL DISCHAREGE PREVENTION |
| 2 | E-106/553/2022/MUM | 202221010575 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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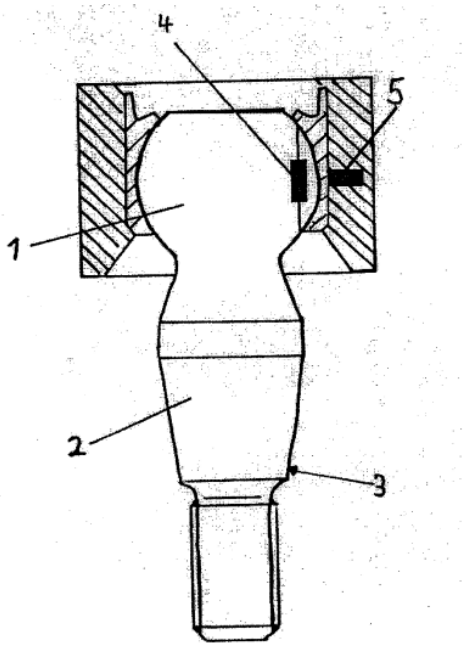
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# P74 NOVEL IDEA OF FINDING STEERING ANGLE IN MOTOR CYCLE

**Patent Application No. - 202221010554**

**ABSTRACT**

The utility device relates to the method for determining a steering angle of a motor vehicle. The system make it possible to detect an elasto-kinematic angle on at least one steering pivoting joint in correlation with a wheel offset.



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[See Rule 22(1)]

RECEIPT

**Docket No 11352** **Date/Time 2022/02/28 13:48:31**

**Harish Umashankar Tiwari Plot No. B, Sector no. 110, Gate no.1, Laxminagar, Ravet, Haveli, Pune - 412101 Email: principal@pccoer.in**

| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010554 | TEMP/E-1/11967/2022-MUM | 1600 | 5090 | FORM 1 | Full | NOVEL IDEA OF FINDING STEERING ANGLE IN MOTOR CYCLE |
| 2 | E-106/538/2022/MUM | 202221010554 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
|---|---|---|---|---|
| N-0000928273 | Online Bank Transfer | 2802220009002 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600

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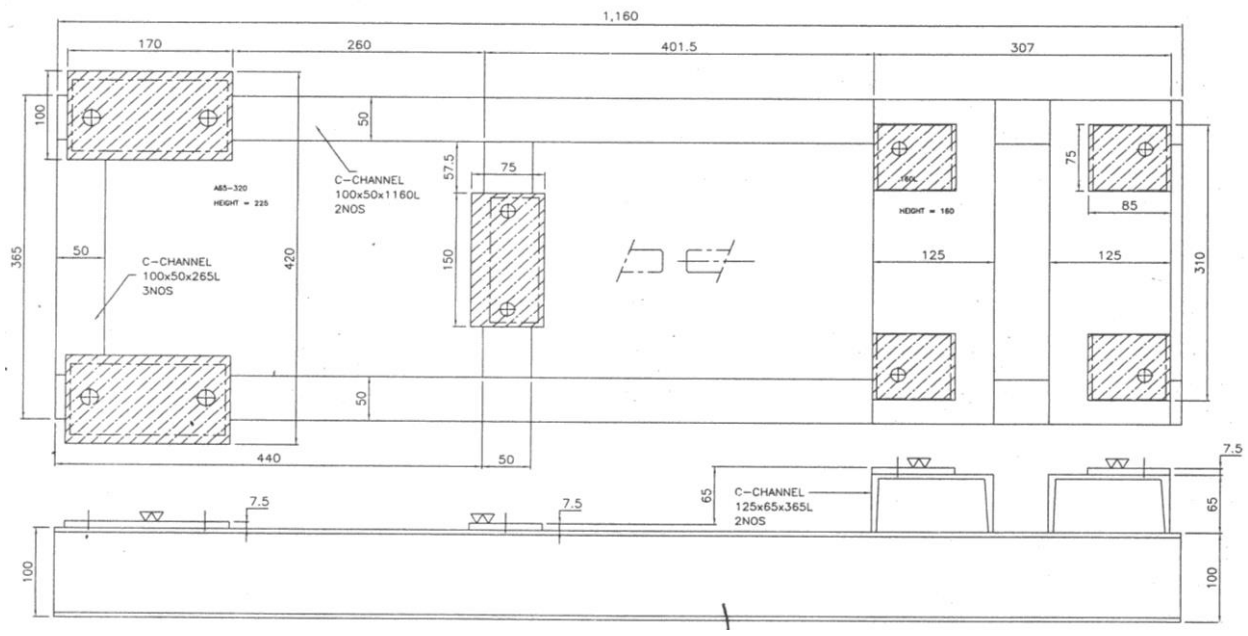
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# P75 DESIGN OF MODULAR BASE FRAME FOR SPECIFIC FAMILY OF PUMPS

**Patent Application No. - 202221010569**

## ABSTRACT

The present invention involves Design & development of modular base frame for specific family of 20 HP & 30 HP centrifugal pumps any pump of this family can be accommodated on this frame structure with just changing the position of nut T bolts. This modular frame is tested successfully for 30 Hp capacity pump & its motor. This shows great reduction of cost & wastage of material.



Welcome Harish Umashankar Tiwari Sign out

Controller General of Patents, Designs & Trade Marks

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**[See Rule 22(1)]**
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**Docket No 11368** **Date/Time 2022/02/28 14:02:33**

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| Sr. No. | Ref. No./Application No. | App. Number | Amount Paid | C.B.R. No. | Form Name | Fee Payment | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 202221010569 | TEMP/E-1/11951/2022-MUM | 1600 | 5104 | FORM 1 | Full | Design of modular base frame for specific family of pumps |
| 2 | E-106/549/2022/MUM | 202221010569 | 0 | -1 | FORM28 | Full | |

| TransactionID | Payment Mode | Challan Identification Number | Amount Paid | Head of A/C No |
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| N-0000928297 | Online Bank Transfer | 2802220009506 | 1600.00 | 1475001020000001 |

Total Amount : ₹ 1600

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Email: pccoer.ravet@gmail.com

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