

- 1. Alternative Construction Material Made from Electroplating Industry Sludge and a Method to Prepare the Same** - Dr. Varinder S Kanwar  
*It provides a method of stabilizing & solidifying the industry sludge and after studying its engineering behavior it could be used as mortar mix or concrete mix.*  
*Patent Filing Number - 498/DEL/2015*
- 2. Improved Multifunctional Duster and Eraser Assembly for Writing Board** – Dr. Sushil Kumar  
*An improved duster that could hold both markers and chalk, has a fluid cleaner for wet erasing, features dry erasing and a mechanism to hold the chalk dust inside the duster itself.*  
*Patent Filing Number - 1369/DEL/2015*
- 3. Improved Multi Level Food Tray** – Dr. Rajnish Sharma  
*The invention proposed a improved food tray that feature thumb & finger grip, pocket to hold cutlery, it is compact as it is multilevel with slide-able and removable compartments.*  
*Patent Filing Number - 1731/DEL/2015*
- 4. User Controlled Automatic Timer Based Mosquito Repellent Device** - Sagar Juneja  
*Invention proposed a repellent machine that we switch off after 8 hours, it features various burst modes so that machine is not ON all the times thus prevent wastage and long exposure to harmful fumes.*  
*Patent Filing Number - 1937/DEL/2015*
- 5. Automatically Adjustable Laptop Stand** - Dr. Neha Kishore & Vivek Khanna  
*An automatic adjustable laptop/desktop stand enables the screen to move up/down and horizontally depending upon the posture of using a face recognition sensor that measures the distance and angle to user's eye.*  
*Patent Filing # - 2397/DEL/2015*
- 6. Driverless Car** - Anirudh Gupta  
*An automatic driverless car with an open system for Indian road and whether condition, comprising of RADAR, SONAR, and different sensor that are controlled by Artificial Intelligence Systems*  
*Patent Filing # - 3132/DEL/2015*
- 7. Compact Touch Sensitive Projector** - Manik Gupta, Karan Bajaj, Dr. Shaily Jain & Gaurav Mehta  
*A compact touch sensitive projector that works without computer features an inbuilt high definition camera for live recording. It come with additional hardware - light pen maker & an eraser.*  
*Patent Filing# -2727/DEL/2015*
- 8. Wearable Suit With Air Conditioning System** - Vinay Chadha  
*Wearable suit with air conditioning system to keep a person comfortable during warm & cold conditions. It is energy efficient and uses light weight material so that it can be worn as an overcoat.*  
*Patent Filing# -3131/DEL/2015*
- 9. Mobile Back Panel With Safety Chip** - Dr. Disha Handa Mahendru, Ayush Garg & Gaurav Goyal  
*A mobile back panel with safety chip to recognize distress voice and words like 'help', 'save me' etc without human interference send the location & mobile number of the victim to the nearest police station.*  
*Patent Filing# -3543/DEL/2015*

- 10. Combinational SIM Card Lock System For Mobile Phone** - Aniket Bharadwaj, Hemani Negi, Abhijit Dey, and Nilesh Khanna  
*Mobile SIM card tray lock system is developed that consists of electronic motor & gear controlled using application software like pass code or pattern lock thus removing SIM card in case of theft is impossible.*  
Patent Filing# -3523 /DEL/2015
- 11. Device And System To Detect Future Emotional Behaviour Of Humans** - Dr. Tanu Sharma  
*A portable system is developed to determine and predict emotions of the individual. It works on HYBRID-NAV-MAR algorithm to combine Naïve Bayes and Markov Model algorithms and implemented using microcontroller & sensors like electrodes, temperature sensors, photo-diode etc.*  
Patent Filing# -3908/DEL/2015
- 12. Automatic Multi- Level Parking System With Vehicle Tracking From Different Locations In The Building** - Sagar Juneja, Saurav Kochar and Sachin Dhiman  
*The system comprise of two cameras one extracts vehicle registration number and other guides the vehicle to the nearest free parking slot using image processing algorithms. Back end system tie the vehicle number with the parking slot number for vehicle tracking.*  
Patent Filing# -3898/DEL/201/DEL/2015
- 13. Laptop Within Built Thermal Printer** - Dr. Neha Kishore, Vivek Khanna, Akshay Thakur  
*It is a printer inside a laptop. Printer comes with its own memory, LCD screen and ports to connect any other external device for taking prints.*  
Patent filing number – 201611003384
- 14. System and Method of Electrical Energy Generation at Two Lane Highway** - Rohit Choudhary, Jasmeet Singh  
*Hydraulic piston cylinder arrangement is connected to the speed bumps which when pressed causes hydraulic fluid to move into the pipes that rotates the turbine and generates electricity.*  
Patent filing number – 201611003383
- 15. Glove for Gripping or Holding Metallic Object** - Arjun Sharma & Mr. Neeraj Kumar  
*A glove with tubes of polymer is attached to the fingers. Copper coil is wound on these tubes that act as a solenoid, an on/off switch is fixed on the index finger that let user magnetize the glove.*  
Patent filing number – 201611007170
- 16. Camera Accessory for Photography in Moving Vehicle** - Vinay Chadha & Dr. Varinder Kanwar  
*It consists of U and I shaped tubes that are interlinked. Prisms and lens are used inside the tube for directing light through it. A stepper motor is used that rotates the front part of tube and helps in changing direction of view.*  
Patent filing number – 201611006999
- 17. Device to Predict Past, Present and Futuristic Human Aura/Emotion Via Bio-Feedback** - Dr. Tanu Sharma and Dr. Sapna Saxena  
*The invention records the data to predict past & future emotions of the humans. Input is taken from several bio-feedback parameters and processed using an embedded processor.*  
Patent filing number – 201611011102
- 18. Process to Convert Toothpaste Industry Waste/Sludge into Usable Form** - Dr. Varinder Kanwar  
*There are several chemical, additives and colorants used in the toothpaste industry which can adversely affect the ecological balance if not disposed properly. This invention provides a method for reutilization of sludge into useful construction material.*  
Patent filing number – 201611022362

**19. Pen Type Soldering Iron - Shubham Malhotra & Lipika Gupta**

*Pen type soldering iron is divided into two segments wire feeding mechanism and heating chamber. A push button is provided which when pressed moves the wire down to the heating chamber that melts the solder wire for soldering.*

*Patent Filing# - 201611028712*

**20. Floating Safety Bag for Multiple Persons - Ankush Gupta & Neeraj Kumar**

*Safety bag made from Kevlar is proposed that is having two air tubes on each side that prevents it from sinking. The triangular region of the safety bag holds three persons on each triangular side. It is leak proof, contain oxygen packets and a GPS tracker.*

*Patent Filing# - 201611029560*

**21. Laptop Security System - Arjun Sharma and Neeraj Kumar**

*Laptop security system consists of IR Transmitter & Receiver is proposed. Whenever anyone tries to open or close the flap of the laptop IR path is obstructed & the alert signal is sent to the user's mobile*

*Patent Filing# - 201611033440*

**22. Farmer Interactive Remotely Controlled Rice Crop Disease Detection System - Dr. Sheifali Gupta, Satpal Singh, Sagar Juneja, Dr. Rupesh Gupta**

*A hand held device with display and an unmanned aerial vehicle (UAV) with a camera controlled using a processor along with embedded image processing software is developed for remote detection of disease in the crops.*

*Patent Filing# - 201613036100*

**23. Morse Pen as a Communication Tool for Blind – Pratyaksh Joshi And Sagar Juneja**

*Invention proposes a low cost electronic device for blind that is based on Morse code. it is a pen like device having switch at the tip of the pen to generate morse code which will enable blind people to write.*

*Patent Filing # - 201611040790*

**24. Method of Converting Lime Sludge of Paper Industry into Bricks - Dr. Varinder S Kanwar, Brij Bhushan, Dr. Siby John**

*Engineering behaviour of this stabilized and solidified sludge from the paper industry that is rich in  $CaCO_3$  and  $CaO$  is analysed and proposed as partial replacement of clay in manufacturing of bricks and also be used as construction material*

*Patent Filing # - 201711003597*

**25. Helmet Locking Mechanism for Two Wheeler - Shubham Goyal and Aniket Bhardwaj**

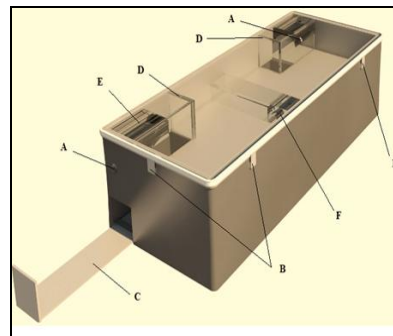
It is an integrated, easy to install and easy to operate helmet locking mechanism. Inventors have utilized dead and empty space inside the rear panel of the two wheeler without disturbing any part externally. Installing a small roller mechanism inside the rear panel which can house a metallic wire with high tensile strength so that it can be pulled out when required and remains hidden when not required. There is no requirement of any lock and key mechanism

*Patent Filing # - 201711015054*

**26. Stationery Box – Dr. Sita Ram**

*Design Patent*

*Patent Filing # - 290477*



**27. Tape Dispenser** - Ashish Vadhan and  
Atul Rana  
*Design Patent*  
*Patent Filing# - 291772*

