

VESIT PATENT

| SR. NO. | APPLICATION NO. | STATUS | INVENTORS | DEPARTMENT | ACADEMIC YEAR | PATENT NAME | DETAILS | CERTIFICATE NO. |
|---------|----------------------|--------|---|------------|---------------|--|---|-----------------|
| 1 | 201621006029/2016 | | Dr. Nadir N. Charniya (VESIT) Ms Lakshmi V. (Don Bosco) | | | Glitter Seal Authentication and Tamper Detection using Neural Networks | Electronics and Telecommunication Engineering Dept. Patent Filed Prof. Nadir N. Charniya (with Ms. Lakshmi V.) Glitter Seal Authentication and Tamper Detection Using Neural Networks(No. 201621006029 A) Physical tampering with devices is a growing problem and is a common issue among users who are concerned with security of their devices. Affixing tamper-proof seals over ports or chassis screws, won't be useful as these seals can be replicated or opened cleanly. Hence there is a need to create a seal that is impossible to copy. This can be achieved by applying glitter paint on the seal. Glitter paint, once applied, has a random pattern and hence it is difficult to replicate once broken. This paper presents a system using image processing techniques that will be able to detect tamper and also authenticate the seal. The image of the device with the seal applied on it would be taken before leaving it alone and upon returning of the device, another image would be taken. Radon transform and Local Binary Pattern Variance (LBPV) techniques are used to extract rotation invariant features after preprocessing technique and dominant features would be selected from the different set of features. Optimal neural network architecture with minimum number of hidden neurons was designed with a constraint of maximum classification accuracy. | |
| 2 | 286362 02/12/2016 | | Ms. Manisha P. Joshi (VESIT) Mr. Rupendra Sharad Nehete Mr. Premkumar Purushottam Joshi Mr. Balkrishna Eknath Narkhede Dr.Vivek Yakundi | EXTC | | Helmet | Electronics and Telecommunication Engineering Dept. Prof. Manisha P.Joshi (With Premkumar Purushottam Joshi, Rupendra Sharad Nehete, Balkrishna Eknath Narkhede, Vivek Krishna Yakundi) Helmet/Solar Helmet (No. 286362/286364) Working under high temperature is always a tedious job for human being, especially the construction workers, high temperature service conditions and soldiers. To improve the human comfort in high temperature conditions this is an attempt to design a solar cooled helmet. This solar cooled helmet generates electricity using solar panel installed on helmet and cooling effect is produced by peltier thermo electric plate, which reduces temperature in helmet to the range of 20-24 0 C. The unique feature of this product is that the air is circulated throughout the helmet body through cavities in it. The purpose of the project is to solve the problem of soldiers during patrolling, to provide cooling effect inside the helmet by using some compact, lightweight, portable, easy to handle attachment on their present helmet. During day time when the temperature is high the solar energy available from sun can be utilized to generate electricity using solar panel and the cooling effect is produced by thermoelectric plate to improve the head and human comfort.It is also necessary to store the available solar power in the battery. A lithium ion battery is used for storage purpose due to its compactness and light weight structure. Also battery charging is possible during non-working hours with the help of electricity | |
| 3 | 286364 | | Ms. Manisha P. Joshi (VESIT) Mr. Rupendra Sharad Nehete Mr. Premkumar Purushottam Joshi Mr. Balkrishna Eknath Narkhede Dr.Vivek Yakundi | | | Solar helmet | Electronics and Telecommunication Engineering Dept. Prof. Manisha P.Joshi (With Premkumar Purushottam Joshi, Rupendra Sharad Nehete, Balkrishna Eknath Narkhede, Vivek Krishna Yakundi) Helmet/Solar Helmet (No. 286362/286364) Working under high temperature is always a tedious job for human being, especially the construction workers, high temperature service conditions and soldiers. To improve the human comfort in high temperature conditions this is an attempt to design a solar cooled helmet. This solar cooled helmet generates electricity using solar panel installed on helmet and cooling effect is produced by peltier thermo electric plate, which reduces temperature in helmet to the range of 20-24 0 C. The unique feature of this product is that the air is circulated throughout the helmet body through cavities in it. The purpose of the project is to solve the problem of soldiers during patrolling, to provide cooling effect inside the helmet by using some compact, lightweight, portable, easy to handle attachment on their present helmet. During day time when the temperature is high the solar energy available from sun can be utilized to generate electricity using solar panel and the cooling effect is produced by thermoelectric plate to improve the head and human comfort.It is also necessary to store the available solar power in the battery. A lithium ion battery is used for storage purpose due to its compactness and light weight structure. Also battery charging is possible during non-working hours with the help of electricity | 50114 |

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| 4 | 1287/MUM/2010 | | Dr. Nadir N. Charniya (VESIT) Dr. Sanjay. V. Dudul (SGBAUA) | | | Laser mouse navigation sensor system for thickness measurement | Electronics and Telecommunication Engineering Dept. Prof. Nadir N. Charniya (With Dr. S. V. Dudul) Laser Mouse Navigation Sensor System for Thickness Measurement (1287/MUM/2010 A) A simple low cost sensor system for thickness measurement of plates by means of high resolution laser mouse navigation sensor and a lightweight displacement probe is designed. An experimental prototype is developed which involves the release of the probe freely on the plain surface of any plate under test. A signal is generated from the laser mouse during the release of the probe. The first minima of the signals are related to the thickness of the plates. | |
| 5 | 308566/2018 | | Mrs. Shoba Krishnan Mrs. Manisha Joshi | EXTC | 2018-2019 | Obstacle Detection article for blinds | The system (100) of the present invention facilitates the blind user to have normal social interactions without the need to touch the face of a person to recognize him/her, using a convenient wearable device. | |
| 6 | 15058/2018-CO/L | | DR. SHIV KUMAR GOEL, DR. KAVITA | MCA | | INVESTIGATING PENALTY FOR MANAGING AND GOVERN TRAFFIC RULES VIOLATORS USING INFORMATION AND COMMUNICATION TECHNOLOGY | This Investigation relates to imposing the on spot penalty automatically on traffic rule offender's from their account by applying the G2C (Government to Consumer) and G2B (Government to Business) enforcement of rules. Thus the field of Investigation is e-Governance, to curb the Traffic rules Violators globally. | |
| 7 | 15056/2018-CO/L | | DR KAVITA, DR MANOJ K SABNIS | INFT | | SHADOW DETECTION AND ELIMINATION IN STATIC IMAGES | | |