



# An Exclusive Review of Scientific Innovative Design Patents

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**Abstract:** Patents of today's world are the significant tool of Faculty Members, Researchers, Industrialists and Students in the Education Field. They can easily protect our invention. If they are original and they meet the specifications of the patent authority of corresponding country, then a grant is given with a Patent number (should not be confused with the application number). They can protect a trademark, design, process or may be a product even based on how original it is, how practically it can apply in a society or country, how suitable it is in its corresponding field, how we utilise in real time-practical scenario and so on. A Patent can be Design Patent, Standard Patent, Utility Patent or Innovation Patent. Generally speaking, an invention can be protected upto 20 years.

**Keywords:** Design Patent; Innovation Patent; Standard Patent; Trade Mark; Utility Patent

## I. INTRODUCTION

Based on the exclusive novel feature in design of its functionalities of an item or thing, a Design Patent is granted. They have nothing to do with utility of its features but rather marks the specialty of the design and therefore the design patent is given grant for a product or an idea. Visual Qualities matter the most when a decision regarding grant is reached. It provides authentication to the brand by helping in preventing others from making a profit of your original design. IPR is protected by Design Patent. The Design of the Product is an evitable part of your brand that even your fellow companies can impact by stealing useful part of information.

## II. LITERATURE REVIEW

[1] discussed about a disclosure which is made regarding a driving alert system which is designed in the form of a neck cushion which has the capability to sense the posture of the drivers neck position so as to identify whether the driver is alert and if he is dozing of. The system is made intelligent to obtain data from the movement so as to produce triggers to alert the user and to keep him/her awake to avoid accidents. The system is also linked to a mobile computing device so as to provide a report of the analysis done. The drivers location can also be tracked using the same.

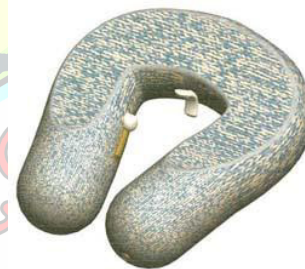


Fig.1. Neck Cushion Based Alert System

[2] discussed about a disclosure which is made regarding a gear blocking gear cover for the four wheeler vehicle where the protective cover has been with touch sensors and biometric sensors. Here in case of theft even if the car is started without a key the gear system is locked using biometric locks which can read the palm of the user to unlock the gear system thus protecting the vehicle against any form of theft. This device can be attached to any type of four wheeler vehicle.



Fig.2. Biometric Wallet

[3] discussed about a disclosure which is made regarding a wallet safety where a locking system is designed along with an automatic credit –debit card eject system. The wallet is provided with a screen display to select the card and to provide finger print authentication to access the wallet and to select the card which needs to be ejected out of the wallet for usage. The wallet is connected to a mobile device which can remotely monitoring its usage and location in case wallet is lost.

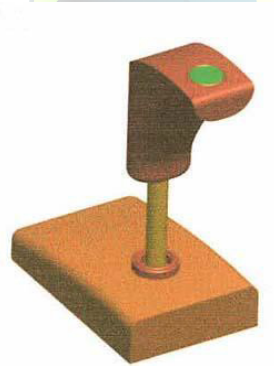


Fig.3. Touch Based Gear Locking

[4] discussed about a disclosure which is made regarding an apparatus to identify any toxic material contaminating into any drinkable liquid consumed by the humans or animals. A drop of any form of liquid can be taken and can be dripped onto the sensor of the keychain so as to identify whether the liquid has any unwanted formulation which is not safe to consume. The Keychain is programmed with color changing indication system to notify the purity of the liquid or otherwise any contamination if identified.



Fig.4. Keychain Based Liquid Testing System

[5] brought out an invention which discloses a system and method of representing health data of a patient. The invention comprises of a device 100 including a display module 102, a three dimensional sensor camera 101, a processor 107, a temperature sensor, a plurality of modules configured in the device including a template module 103, a healthcare provider module 104, a patient module 105, a processor 107, a server 108 connected to the device 100. The three dimensional sensor camera 101 is configured for capturing a three dimensional image of the patient, the template module 103 is configured for storing three dimensional graphical anatomical templates, the healthcare provider module 104 is configured for providing access to a healthcare provider and the patient module 105 is configured for providing access to a patient. [6] brought out present disclosure which provides an electrocardiogram remote monitoring system based on artificial intelligence including a patient 5 monitoring unit with a sensor system and a microcontroller . A server unit is connected to the patient monitoring unit , wherein the server unit includes a database and an artificial intelligence module. A patient module, a hospital module and a guardian module is connected to the server unit through a communication network . The artificial intelligence module analyses data received from the microcontroller for diagnosing health of heart of the patient, predicts a health of the patient based on data stored in the database, and the server unit transmits the analyzed and predicted data to the hospital module, the guardian module 15 and the patient module. [7] brought out present disclosure which provides a system for monitoring and controlling farming using drone technology comprising a drone system for monitoring the farm and transmitting information and a ground control system for controlling the drone system and receiving the information. A camera is provided in the drone system for capturing images and video, a GPS module is provided in the drone system for locating image and video captured by the camera, a sensor module is provided in the drone system for measuring parameters of temperature, humidity, gas and pH. A microcontroller is provided in the



ground control system for processing the parameters and transmitting to an artificial intelligence module and the artificial intelligence module is configured for determining present crop growth and predicting future crop growth in the farm based on the data.

[8] analyzed that the reason that every family member will be employed and busy, the health monitoring of elderly people and patients has become very crucial. In the proposed methodology caretakers can get the information of the temperature and the pulse rate of the people being monitored at home. User can also get the information about the air quality in the home so that the system will generate an alarm if any hazardous gas is detected. Here further herein we have implemented a fuzzy logic approach for real time monitoring and analysis of the data collected from temperature sensor, Heart beat sensor and Gas sensor. Based on the trained data and the collected data from the sensors outliers will be detected. The collected data sent to the cloud can be downloaded using the Thing speak platform. The future work has also been proposed and is planned to automate the message sending of the outliers detected to the caretakers and the doctors using deep learning.

### III. CONCLUSION

This Review Paper discusses the uses of Design Patents. This Review Paper also discusses some of the innovative designs for valuable scientific research. The readers should understand that Design Patents has nothing to do with utility of its features but rather marks the specialty of the design and therefore the design patent is given grant for a product or an idea. Visual Qualities matter the most when a decision regarding grant is reached. It provides authentication to the brand by helping in preventing others from making a profit of your original design. IPR is protected by Design Patent..

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