

Model Demonstrating the Modifications in Helmet

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ABSTRACT: Now a days, rapid increase in no. of vehicles in our life is posing a threat in form of increament in no. of road accident. Basically, if we spotlight bike accidents, they are claimed over 13.5 lakhs of lives per year, behind which the reason primarily can be helmet. It can prevents 90% loss of lives in accident cases. If the driver is wearing a helmet, he is very likely to survive a road accident. Therefore,a smart helmet,here will serve the purpose. This can we accomplished by using Radio Frequency Identification System (RFIS) which can be introduced inside the helmet.It is a type of keyless ignition in which helmet is must. It comprises actuation of ignition after detection of helmet by RFIS followed by starting of vehicle engine.

Keywords: RFIS, Keyless Ignition, Skin Sensor

I. INTRODUCTION

Road accidents have become more frequent over the last 30 years. Boost in the technology have also impart boost in speed. In 2017 ,approximate 54 million people along worldwide were injured in road accidents and 1.2 million leads to death. Indian government provides the data regarding death of 1.7 lakh people in 2017 only. As life of each person is crucial, so we have to think about that. If we spotlight the bike accidents only,they comparatively are more dangerous as body parts are not covered,so don't main body parts and head as well. If the head of the person is be protected by any means, there will be 90% chances of survival of driver. If helmet is used,then risk can significantly be reduced. As Indian government recommends the use of helmet,

people there are still not awared and not following the instructions so we have to adopt an idea that without helmet, a driver can not start the concerned vehicle. So,company has to provide a special helmet for bike which employs Radio Frequency Identification System (RFIS).

REQUIREMENTS

1. ISI Approved Helmet
2. Microchip – for storage and processing Information.
3. Antenna- to receive and transmit signals.
4. Reader or Interogator.
5. Tag or Transporter.
6. Ignition Control Module

II. CONCLUSION

The main purpose of this modification is to increase helmet usage while driving. Introduction of RFIS in

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CONSTRUCTION

The process is very simple. Instead of putting button on key, we will use RFIS inside a helmet and same is used to for auto ignition of bike. We have to connect engine of bike with RFIS with the aid of coding. These helmet are to be provided at The time of vehicle procurement.

helmet is intended to assure the safety of vehicle driver by making a driver to must wear a helmet.

- “Standard No.218; Motorcycle helmets. Code of Federal Regulations, Title 49, section 571.218
- National Highway Safety Administration. 1 October 2007. pp. subsection S6.2.3. Retrieved 19 September 2008.