

(54) Title of the invention : A DESIGN OF INTELLIGENT HELMET FOR MINERS USING IOT

(51) International classification :A42B 030400, A42B 032200, A42B 032800, A42B 033000, H04L 090600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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-----**(57) Abstract :**

This Intelligent Helmet for Miners is a IoT based project developed for the purpose of the safety of the miners in case of any emergency such as any poisonous gas leakage, temperature reduction and promotion and a panic button in any other case of emergency, here it is also detected if the helmet is taken off the user using Ir sensor .If any change or danger is detected the gps is tracked using rf tracker and to detect the force when any object is fallen on the helmet. This system also allows supervisor to know the condition of the mines through LCD display and then allows them to think of the best way to reach destination. This project does not include any web application. By this invention we will be ensuring the safety of a worker in the mining site to the maximum extent by considering all the conditions like toxic gas release, temperature demotion and promotion, heavy object fall and obstacle detection. The sensors we used in this project will help to rescue mining worker on time. As mines provides a lot of resources to help country's economy, it is important to ensure miner's health who take major part in extracting those mines, and we assure that this project will monitor miner's health continuously. And with enhancements, this invention can be used in construction sites too.

No. of Pages : 9 No. of Claims : 5