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INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

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(57) Abstract :

Mining is one of the most dangerous jobs in the world, where workers face risks like toxic gases, dust, falling objects, and lack of oxygen. The present invention provides a smart mining helmet that is designed to protect miners by detecting dangers and providing real-time alerts. The helmet is equipped with special sensors that monitor the environment and the miner's condition. It can detect harmful gases, dust levels, and lack of oxygen. If a worker falls or is injured, the helmet immediately senses the impact and sends an alert. Additionally, it has communication features that allow workers to stay connected with their team. Figure 1

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