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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> 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.

**( PROF. (DR) UNNAT P. PANDIT )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

**05<sup>th</sup> september, 2025**

(54) Title of the invention : SMART TURN ALERT SYSTEM FOR SAFER ROADS

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(57) Abstract :

The present invention provides a smart turn alert system for safer roads. The smart turn alert system is a sensor-based, solar-powered apparatus designed to enhance road safety on curved roads. It uses bidirectional sensors (e.g., infrared or radar) to detect approaching vehicles or pedestrians, processes data via a microcontroller, and activates high-intensity LED warning lights and reflective signage to alert drivers on both sides of a curve. The system is autonomous, weather-resistant, and scalable, making it suitable for rural and mountainous areas with limited infrastructure. The invention seeks to enhance safety on curved roads through a proactive, real-time alert system, particularly targeting rural and mountainous areas with poor visibility and minimal infrastructure.

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