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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**

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(57) Abstract :

Title: Smart Identity Ring System for Contactless Authentication, Secure Access Control, and Intelligent Assistance The invention discloses a Smart Identity Ring System, a wearable, contactless identity authentication and access control solution that replaces traditional ID cards with an NFC-enabled smart ring. The ring contains a unique logical identifier (UID) mapped to a secure backend database, enabling real-time identity verification, attendance tracking, and access management without storing any personal data on the device itself. A mobile application, developed for Android and iOS platforms, facilitates scanning, enforces role-based access control, and integrates an AI-Integration to assist users with academic schedules, navigation, and institutional queries. The backend, built using Fastapi/ node.js and secured with JWT authentication, supports both centralized and localized databases for online and offline operations. The system automatically logs attendance and access events with timestamps and provides administrative dashboards for monitoring. Designed for scalability, reusability, and privacy, the Smart Identity Ring system is applicable across educational institutions, corporate offices, healthcare facilities, public transportation, and e-governance, offering a compact, secure, and intelligent alternative to conventional identity and access systems

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