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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**

**10<sup>th</sup> January, 2025**

(54) Title of the invention : SMART MONITORING AND ALERT SYSTEM FOR INFUSION BOTTLE MANAGEMENT

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(57) Abstract :  
 The present invention provides a smart monitoring and alert system for infusion bottle management that is designed specifically for hospitals to enhance patient care and safety. The system focuses on tracking the liquid level in glucose drip bottles in real time. When the liquid level reaches a critical point, the system automatically generates an alert that is sent to both the medical staff and the patient's family through a dedicated mobile application. The system ensures timely replacement of the bottle, preventing interruptions in treatment and reducing the risk of complications caused by delays. By integrating advanced sensors, real-time notifications, and a user-friendly app interface, the system streamlines hospital workflows and provides peace of mind to caregivers. It's a simple yet impactful solution aimed at improving efficiency in healthcare settings, ensuring better outcomes for patients, and optimizing the responsiveness of medical staff. Figure 1

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