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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 :

The present invention provides an IoT-based irrigation system for precision agriculture that continuously monitors soil moisture levels, weather conditions, and crop requirements to decide when and how much water to apply. The soil moisture sensors are placed in the soil across the farm to monitor the moisture levels. Each sensor detects the amount of water available in the soil and sends this data to the control unit. The placement of sensors can vary depending on the farm size and the type of crop, but they generally need to be spread across different zones to monitor varying soil conditions. A local weather station collects real-time data on environmental conditions such as temperature, humidity, and rainfall forecasts. The weather station is crucial for predicting upcoming weather events (like rain) and making informed decisions on irrigation timing

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