

(54) Title of the invention : IOT BASED ADVANCED IRRIGATION SYSTEM

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(57) Abstract :

In competitive world where there is rapid growth in technology and advancement, automation has given scope to reduce working hours. Agriculture is emphasizing its development in highly populated countries. In India, most of the population depends on agricultural farming. Many issues are hindering the development of agriculture in developing countries. Hence the main aim is to make agriculture smart using automation and IOT technology. Nowadays water scarcity is a big concern for farming. It helps the farmers to irrigate the farmland in an efficient manner with automated irrigation system based on soil humidity. Automation of farm activities can transform agricultural domain from being manual and static to intelligent and leading to high production with lesser human supervision. This is to emphasize an automation message queuing telemetry transport (MQTT) protocol, and mobile parity communication, agriculture are most valuable resources and should be given more importance because of increasing in population, climate changes and concern over water due to minimal resource of at ground level and water bodies. The equipments used are sensors, raspberry pi and are controlled by mobile using IOT.

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