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## (54) Title of the invention: DEEP CROP SHIELD SYSTEM WITH IOT TECHNOLOGY SURVEILLANCE AUTO AFFUSION

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## (57) Abstract:

Agriculture is basic source of livelihood for people in India. It plays major role in the economy of the country. But now days due to the migration of people from rural to urban there is a hindrance in agriculture. Monitoring the environmental factor is not the complete solution to increase the yield of crops. There are no of factors that decrease productivity to a great extent. Hence Automation must be implemented in agriculture to overcome these problems. An automatic irrigation system thereby saving time, money and power of farmer. The Traditional Farmland irrigation techniques require manual intervention. With the automated technology of irrigation, human intervention can be minimized. Continuous sensing and monitoring of crops by the convergence of sensors with Internet of things (IOT) and making farmers to aware about crops growth, harvest time periodically and in turn making high productivity of crops and ensuring correct delivery of products to end, consumers at right place and right time. So, to overcome this problem we go for the smart agriculture technique using IOT. This Project includes sensors such as temperature, humidity and soil moisture for collecting the field data and processing. These sensors are combined with well-established web technology in the form of a wireless sensor network to remotely control and monitor data from the sensors.

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