

(54) Title of the invention : AUTOMATIC WATER CONTROLLING SYSTEM FOR HOME GARDENING

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(57) Abstract :

7. ABSTRACT An automatic irrigation system, wherein the system comprises of wireless nodes at each of an agricultural or home garden site, a cloud server computer system which communicationally coupled to the wireless nodes over a communications network for receiving data from and controlling operation of the wireless nodes at each of the said sites. The system comprises of a micro controller (106), a battery (110) and a relay module (108) integrated in a box separately for each of the said site. Sensor (104) sub modules and a switch coupled to the micro controller (106) of each site. Each of the said sensor (104) sub module provides a signal corresponding to a moisture level of the soil surrounding the plant and/or the pot to the micro controller (106). The system includes a relay module (108) having a single transistor, resistors, diodes and a relay, and it is controlled digitally by the said micro controller (106). The mobile application configured for sharing data related to the moisture level of plant and amount of water supplied to the plant the said end users and the switch carries an activating power signal from the micro controller (106) to the relay module (108) for supplying water to those plants. Figure related to the abstract is FIG. 1.

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