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(57) Abstract :

The present disclosure is an automatic solar water-pumping system (100) that includes sensors (108) to send signals to a controller unit (106) that is operatively coupled to a motor-pump set (103). The controller unit based on the received signals regulates the pumping operation of the motor-pump set and thereby controls flow of water through the pump pipeline. When a sensor detects the presence of a hand or an object, it sends a signal to the motor-pump set that starts pumping water from an underground water well (112), the pumped water flowing out of a waterspout (110). The motor-pump set is powered by a photo-voltaic (PV) array (116) that converts solar energy to electrical energy that can be stored in a rechargeable storage battery (114) operatively coupled to the electric motor (104). Additionally, the system include a water storage tank (210) to ensure availability of water all round the clock.

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