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(57) Abstract :

The present invention relates to an automatic solar panel cleaning device, comprising a dust sensor 3 attached to a lower end of a solar panel for detecting concentration of a dust particles on the surface of solar panel, a motor 4 attached to the lower end of the solar panel for rotating a cleaning apparatus 5 over the solar panel in forward direction or backward direction according to the command signal received from controlling unit, a cleaning apparatus 5 attached between the lower end and upper end of solar panel , wherein cleaning apparatus equipped with air flow chamber 6, water nozzle chamber 7 and a wiper 8. A fan 1 attached to the lower end of the solar panel for drying the solar panel through air flow chamber 6, a water pump 2 attached to the upper end of the solar panel for pumping water through water nozzle chamber 7 over the solar panel, a controlling unit interconnected with the motor 4 and the cleaning apparatus 5 for actuating the motor to attain said predefined rotation.

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