**Literature survey**

1.This solar panel consists of the Peltier refrigerator. Peltier refrigerator is used for condensation purpose. Where the condensed water is used to clean the solar panel. Peltier refrigerator is placed on a solar panel such that the condensation done by the Peltier refrigerator directly flow on the solar panel which clean the solar panel with that condensed water.

References: <https://patents.google.com/patent/US20160204735A1/en#citedBy>

2.Automated Solar panel is used to clean the solar panel without any man force. Here it includes the number of components where wiper is connected to the rotational motor. Whereas the water pumping device is connected to the water pump motors. It consists of the electromagnetic valves where when it is opened water is sprinkled and panels are clean and when the valves is closed it stop cleaning the panel.

References: <https://patents.google.com/patent/CN202555569U/en?q=solar+panel&q=cleaner&oq=+solar+panel+cleaner>