

# Photovoltaic panel cleaning machine patent



## Overview

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[0001] The present invention relates to a system for cleaning the surface of the solar panel array and more particularly, it relates to a self powered and timer based solar panel cleaning system that cleans the solar panel array on regular basis to maximize the lifetime and . [0001] The present invention relates to a system for cleaning the surface of the solar panel array and more particularly, it relates to a self powered and timer based solar panel cleaning system that cleans the solar panel array on regular basis to maximize the lifetime and . The photovoltaic panel cleaning machine is installed upon a linear array of photovoltaic (solar) panels, automatically operating periodically to remove any dust, debris, and/or light condensation from the panels to optimize their efficiency. The machine is driven back and forth along tracks . U. patent number 9,130,502 [Application Number 14/571,111] was granted by the patent office on 2015-09-08 for photovoltaic panel cleaning machine. This patent grant is currently assigned to KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS. The grantee listed for this patent is KING FAHD UNIVERSITY . Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to . patent is extended or adjusted under 35 (74) Attorney, Agent, or Firm - Richard C Litman U.

## Photovoltaic panel cleaning machine patent

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### Photovoltaic panel cleaning device

Accordingly, the photovoltaic panel is cleaned, the light absorption capacity of the photovoltaic panel is improved, the light spot effect is avoided, and the power generation amount of

### Photovoltaic panel cleaning machine

The photovoltaic panel cleaning machine is installed upon a linear array of photovoltaic (solar) panels, automatically operating periodically to remove any dust, debris, and/or light condensation from the



### [Photovoltaic panel cleaning machine Patent Grant Aly , et al.](#)

A photovoltaic panel cleaning machine for a linear array of photovoltaic panels, the machine comprising: a frame movably disposed upon the photovoltaic panels; a plurality of panel cleaning elements

### SELF POWERED AND TIMER BASED SOLAR PANEL CLEANING

[0001] The present invention relates to a system for cleaning the surface of the solar panel array and more particularly, it relates to a self powered and timer based solar panel cleaning



### 115441828 Intelligent photovoltaic panel cleaning device



### **Photovoltaic panel cleaning machine**

The present invention relates generally to photovoltaic or solar panels, and particularly to an automated photovoltaic panel cleaning machine for periodically removing dry dust, debris, and/or moisture

The invention discloses an intelligent photovoltaic panel cleaning device, and relates to the field of photovoltaic panel cleaning, the intelligent photovoltaic panel cleaning device comprises a



### **Automated Solar Panel Cleaning Machine**

The purpose to develop a solar panel cleaning machine is to remove the dust from the surface of solar module on regular or daily basis and maintain the solar power plant clean and healthy.

### **(12) United States Patent (10) Patent No.: US 9,130,502 B1 Aly et**

The photovoltaic panel cleaning machine provides for the automated cleaning of photovoltaic (PV, or Solar) panels using both pneumatic blowing and mechanical brushing or scrubbing to remove



### **US Patent 9130502 Photovoltaic panel cleaning machine**

Patent 9130502 was granted and assigned to King Fahd University of Petroleum and Minerals on September, 2015 by the United States Patent and Trademark Office.

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