

Photovoltaic panel dust removal patent application



Overview

The present application discloses an acoustic dust removal apparatus for a solar photovoltaic panel, comprising a moving part, wherein the moving part is mounted on a solar photovoltaic panel, a support is connected onto the moving part, cleaning parts are connected onto the . The present application discloses an acoustic dust removal apparatus for a solar photovoltaic panel, comprising a moving part, wherein the moving part is mounted on a solar photovoltaic panel, a support is connected onto the moving part, cleaning parts are connected onto the . The invention provides a photovoltaic panel dust removal device, and relates to the technical field of photovoltaic panel dust removal equipment. The systems and methods remove dust particles from surfaces using electrostatic induction. This . Check patentability & draft patents in minutes with Patsnap Eureka AI! AI technical title is built by PatSnap AI team. [0005] The purpose of the present invention is to provide a dust removal equipment for photovoltaic panels to . The invention is directed toward dust removal from solar cells and in particular it is directed toward efficient low-power dust removal from solar cells which will operate on the planet Mars or on any planet or celestial body with an atmosphere.

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Electrostatic dust removal using adsorbed moisture-assisted charge

Here, we present a waterless approach for dust removal from solar panels using electrostatic induction. We find that dust particles, despite primarily consisting of insulating silica, can

Transparent self-cleaning dust shield (Patent) , OSTI.GOV

A transparent electromagnetic shield to protect solar panels and the like from dust deposition. The shield is a panel of clear non-conducting (dielectric) material with embedded parallel



Efficient dust removal device for solar photovoltaic panel

Application domain has been developed by PatSnap to allow you to quickly understand the application of the invention technology for a patent. Patent full text is considered and AI technology leveraged to

Photovoltaic panel dust removal device

The invention provides a photovoltaic panel dust removal device, and relates to the technical field of photovoltaic panel dust removal equipment.



Design and implementation of a



[waterless solar panel cleaning system](#)

Manual cleaning of large solar installations is often labor-intensive and time-consuming, primarily due to the accumulation of dust on solar panels, which significantly impairs their efficiency.

US Patent Application for SYSTEMS AND METHODS FOR

Presented herein is a method for removing dust from a surface of a solar panel using an electric field. The method includes moving an electrode over a surface of an electrically conducting solar panel to



A dust removal device for photovoltaic panels

The invention relates to the technical field of mechanical devices, in particular to a dust removal device for photovoltaic cell panels, which includes a bracket, a photovoltaic cell panel

WO/2025/236545 ACOUSTIC DUST REMOVAL APPARATUS FOR

The present application discloses an acoustic dust removal apparatus for a solar photovoltaic panel, comprising a moving part, wherein the moving part is mounted on a solar



Removing Dust from Solar Panel Surfaces Using Electric Field

Presented herein are systems and methods for waterless, contactless systems and methods for cleaning solar panels that can be applied, for

example, to photovoltaics and solar reflector power plants.

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Accordingly, it is an object of the invention to prohibit the formation of dust on the solar panel in the first instance by operating the electrode pairs to prevent dust from reaching the surface of the solar panel



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