

# Photovoltaic panel dust removal patent application process



## Overview

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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. 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. 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 apply a potential difference between the electrode and the surface of the solar panel. The system has three modules: dust detection, cleaning and control. Break uses material powder, LDR. 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. Search specific patents by importing a CSV or list of patent publication or application numbers. The smart dust-cleaner and cooler for solar photo-voltaic (PV) panels is a smooth transparent shield with low absorption coefficient (such as a plastic sheet) placed on top of the PV panel to facilitate.

## Photovoltaic panel dust removal patent application process



### 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 ...

## Systems and methods for removing dust from solar panel

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



50KW modular power converter



**NEW**

 <p><b>Flexible Configuration</b></p> <ul style="list-style-type: none"> <li>• Modular Design, Expansion as Required</li> <li>• Small&amp;Light, Wall Mounted</li> <li>• Installed in Parallel for Expansion</li> </ul>	 <p><b>Powerful Function</b></p> <ul style="list-style-type: none"> <li>• Support PV+ESS</li> <li>• Grid Support, Equipped with SVG Technology</li> <li>• On-Grid and Off-Grid Operation</li> </ul>	 <p><b>Reliable Protection</b></p> <ul style="list-style-type: none"> <li>• Outdoor IP55 Design</li> <li>• Sufficient Protection Functions Equipped</li> </ul>
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### 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 ...

## Smart dust-cleaner and cooler for solar PV panels

The smart dust-cleaner and cooler for solar photo-voltaic (PV) panels is a smooth transparent shield with low absorption coefficient (such as a plastic sheet) placed on top of the PV



### INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



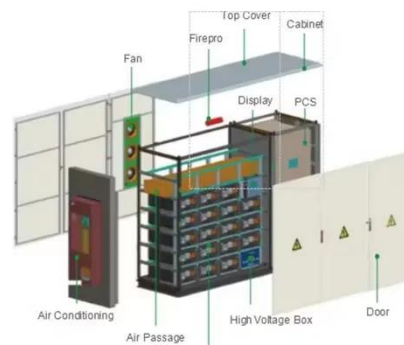
## A dust removal device for photovoltaic panels

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 ...

## 202321060271 AUTOMATIC DUST DETECTION AND SOLAR

...

An Arduino based solar panel cleaner for dust removal has been designed and implemented here. The system has three modules: dust detection, cleaning and control.



## Electrodynamic dust removal technologies for solar panels: A



This paper reviews electrodynamic dust shield (EDS) systems used to mitigate dust adhesion and accumulation on optical elements, such as photovoltaic (PV) panels.

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## Dust mitigation methods and multi-criteria decision-making cleaning

This review consolidates four decades of research (1983-2024) on dust mitigation for photovoltaic systems, categorizing strategies into four key areas: preventive measures, dust ...



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## Dust removal device for photovoltaic panel for photovoltaic power

A dust removal device and photovoltaic power generation technology, applied in the direction of removing smoke and dust, cleaning methods using tools, cleaning methods and utensils, ...

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## 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. The ...



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