Photovoltaic sunshade patent

The sun shade has a light receiving portion configured to be carried beneath a vehicle wind shield. The at least one solar cell is provided in the light receiving portion. ... Heated Solar Powered Sun Shade, and Method Patent Application (Application #20230140222) ... PV modules 422 and elongate heaters 424 are shown in a rear side view from above.

An at least partially self-powered photovoltaic sunshade and display system is provided, including a plurality of panels arranged in an array. Each of the plurality of panels has two sides, including a first side including a plurality of photovoltaic cells or a photovoltaic layer, and a second side having an array of light-emitting elements.

A photovoltaic and sunshade technology, applied in the field of photovoltaic sunshade system and its preparation, can solve the problems of difficult installation, high cost, and restrictions on the ...

The utility model discloses a photovoltaic sun-shading component, which comprises a square frame, wherein a transparent panel is fixed on one side of the surface of the square frame, a positioning structure connected with an outer wall of a building is arranged on the outer wall of the square frame, a solar photovoltaic panel is slidably arranged at one end of the inside of the ...

A sunshade, in particular for supporting photovoltaic panels, comprising a roof structure inclined so as to have an upper portion and a lower portion, and a plurality of posts for anchoring the ...

Bifacial photovoltaic sunshade (BiPVS) is an innovative building-integrated photovoltaic (BIPV) technology. Vertically mounted BiPVS is capable of converting part of the incident solar radiation into electricity, regulating the ...

Building-integrated photovoltaic (BIPV) systems are one of the growing applications of PV technology. These approaches allow PV panels to perform additional functions for the building, such as regulating interior lighting and incoming heat. In this work, we explore a design framework for optimizing the configuration of BIPV shading devices to optimize a combination of power ...

The invention provides a photovoltaic sunshade, comprising: sunshade component, supporting component, fixing base, initiative carousel and driven carousel. The support component is connected with the sunshade component, and the fixing seat is in sliding connection with the support component. The initiative carousel is connected with the fixing base, along the ...

DOI: 10.1016/j.heliyon.2023.e18700 Corpus ID: 260227897; Energy performance of an innovative bifacial photovoltaic sunshade (BiPVS) under hot summer and warm winter climate @article{Li2023EnergyPO,

title={Energy performance of an innovative bifacial photovoltaic sunshade (BiPVS) under hot summer and warm winter climate}, ...

The bi-facial photovoltaic sunshade (BiPVS) is an innovative solution that utilizes vertically mounted bi-facial photovoltaic modules to provide shading. The BiPVS is capable of converting incident solar radiation into ...

From pv magazine International. Poland-based perovskite solar cell manufacturer Saules Technology has installed a photovoltaic sunshade equipped with perovskite solar cells on the factory facade of Polish aluminum system provider Aliplast in Lublin. The company said the project is the world"s first building-applied photovoltaics (BAPV) system relying on a perovskite ...

The utility model discloses a photovoltaic sunshade device. The device comprises a sun shield, a fixing sleeve, a motor, a worm, a bearing, a bearing sleeve, a rotating shaft and a speed reduction drive motor. The fixing sleeve transversely passes through a wall body. The worm is disposed in the fixing sleeve, transversely passes through the fixing sleeve, and is fixed by the bearing.

Using PV modules as a sunshade also prevents glare. Recently, the application of bifacial photovoltaic technology in the building sector has shown promise for achieving building energy-saving and carbon-neutral goals. In this study, we conducted an experiment to evaluate the thermal, light, and electrical performance of a vertically mounted bif ...

US8925286B2 US13/242,262 US201113242262A US8925286B2 US 8925286 B2 US8925286 B2 US 8925286B2 US 201113242262 A US201113242262 A US 201113242262A US 8925286 B2 US8925286 B2 US 8925286B2 Authority US United States Prior art keywords glass pane photovoltaic cell deployable tinting material vehicle Prior art date 2011-09-23 Legal status (The ...

A spacecraft sunshade is provided. The sunshade includes a surface that is maintained in a sun facing orientation. Adjustments to a position of the sunshade are made in a plane that is transverse to a line of sight to the sun, in order to block sunlight from being directly incident on an instrument associated with the spacecraft. The sunshade can include photovoltaic elements on ...

The PV sunshade is a typical building-integrated photovoltaic technology (BIPV), with outstanding advantages of direct conversion of solar energy into electricity [10], glare prevention [11], reduction of indoor cooling load, decrease of air-conditioning system energy consumption [12], as well as the saving of conventional sun shading components [13].

Gev Solar Generator S1 is a modular photovoltaic sunshade that can be customized according to family needs. It is composed of several 200w power double-sided power generation solar modules, which can provide cool space while converting solar energy into electricity and store it in the home energy storage system.

The utility model provides a photovoltaic sunshade, comprising: sunshade component, supporting component,

fixing base, initiative carousel and driven carousel. The support component is connected with the sunshade component, and the fixing seat is in sliding connection with the support component. The initiative carousel is connected with the fixing base, along the ...

The bi-facial photovoltaic sunshade (BiPVS) is an innovative solution that utilizes vertically mounted bi-facial photovoltaic modules to provide shading. The BiPVS is capable of converting ...

The photovoltaic sunshade component has been widely used in BIPV for its artistic and energy conservation, In this paper, a mathematical model of photovoltaic sunshade component was established ...

The utility model provides a photovoltaic sunshade, the ceiling is formed by a plurality of ceiling board gomphosis hub connections, be equipped with the solar photovoltaic board on the ceiling board, but the ceiling is beta structure, when the needs sunshade, draws back the ceiling board, and this moment sunny, can be maximum realization solar energy to electric transformation of ...

photovoltaic sunshade and display system????,photovoltaic sunshade and display system??···??????????,????????????,···??????????????????????,?????,????,????????????

The utility model discloses a foldable vehicle-mounted photovoltaic sunshade, which is characterized in that: including scalable support and flexible photovoltaic board, the edge of flexible photovoltaic board is sewed up and is bordured, be equipped with flexible connection structure on the bordure, thereby scalable support can be connected with flexible connection ...

the invention discloses a vehicle-mounted intelligent solar film sunshade which comprises a sensor unit, a solar energy collecting unit and a solar energy collecting unit, wherein the sensor unit is used for monitoring external environment information in real time; the folding and unfolding mechanism is used for folding and unfolding the unfolding components of the folding and ...

Considering the latest development in the field of photovoltaics, Solarwindow Technologies Inc. in US9772260B2 recently disclosed integrated photovoltaic devices as smart sensors for intelligent building energy management systems.The output parameters from the device are used to provide information about light intensity and ambient temperature, in ...

bi-facial photovoltaic sunshade (BiPVS) was implemented in an office under typical hot summer and warm winter climate of Shenzhen, China. The energy performance of the BiPVS was analyzed using Energyplus. The comprehensive building energy saving was evaluated by comparing the energy consumption of the office with and without the BiPVS. ...

The utility model relates to the technical field of photoelectric conversion, in particular to a photovoltaic sunshade, wherein the top end of a planar photovoltaic sunshade faces the sky, sunlight is received through the

top end of the photovoltaic sunshade, light energy is converted into electric energy, and meanwhile, the photovoltaic sunshade stands on the lower side of an ...

The invention discloses a green building window sunshade structure, which is composed of walls, an insulating layer, a window, a photovoltaic module, a steel beam, a pre-embedded part, a decoration curtain, a sealant, flexible foam polyurethane and a lightning-protection device. The green building window sunshade structure has the benefits as follows: by adopting the ...

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