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Three-dimensional solar power generation patent

Overview

Three-dimensional solar power generation systems are described. The systems are characterized by a plurality of solar panels configured to include pole and equator facing panels and, in various embodiments additional top and/or side panels that form a segmented and. Three-dimensional solar power generation systems have a plurality of solar panels configured to include pole and equator facing panels and, in various embodiments additional top and/or side panels that form a segmented and dome-shaped assembly. The systems have improved efficiencies particularly. Legal status (The legal status is an assumption and is not a legal conclusion. Google has not performed a legal analysis and makes no representation as to the accuracy of the status listed. Google has not performed a legal analysis and. A three-dimensional (3D) solar cell includes an active, rigid, and flat material configured to transform solar energy into electrical energy, wherein the active, rigid, and flat material is shaped as first and second petals, each petal having plural sides, plural electrodes formed on a backside of. Check patentability & draft patents in minutes with Patsnap Eureka AI! Al technical title is built by PatSnap Al team.

Three-dimensional solar power generation patent

US Patent Application for Three-Dimensional Solar Electrical ...

The systems have improved efficiencies particularly with respect to early morning and evening power generation that enable improved power densities on a given land area as compared to traditional ...

Solar3D files patent for three-dimensional solar cell

Solar3D Inc. (SLTD), Santa Barbara, Calif., has filed a patent for its three-dimensional solar cell, which utilizes a three-dimensional design to trap sunlight inside micro-photovoltaic ...

US11990864B2

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THREE-DIMENSIONAL SOLAR CELL

AND METHOD

Each of the plural solar cells is shaped as a sphere, the plural solar cells are configured to generate electrical energy from solar energy, and each solar cell is electrically and mechanically connected to ...

Solar energy generation in three dimensions

We formulate, solve computationally and study experimentally the problem of collecting solar energy in three dimensions.

A three-dimensional solar power generation device

[0004] The purpose of the present invention is to provide a three-dimensional solar power generation device, which solves the problem that most of the angle adjustment units of the existing ...

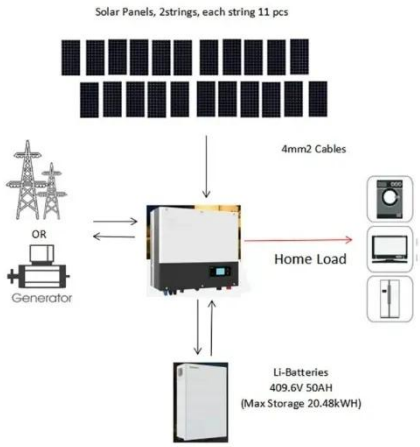
WO2021253118A1

Three-dimensional solar power generation systems are described. The systems are characterized by a plurality of solar panels configured to include pole

and equator facing panels and, in

KR20020074100A

After making a combination of these sub-modules to create a double-sided solar cell module and utilizing the double-sided solar cell module to develop the present invention "three-dimensional



US Patent Application for Three-Dimensional Solar Electrical Generation

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Solar Energy Generation in Three-Dimensions

We recently employed computer simulations (Ref. 5) to show that 3D photovoltaic (3DPV) structures can

increase the generated energy density (energy per footprint area, Wh/m2) by a factor linear in the ...

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