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Title: Spherical solar power generation device patent

Generated on: 2026-03-28 19:08:07

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BackgroundSummaryBrief Description of The DrawingsDescription of The Preferred EmbodimentA technical advance is provided by an improved solar cell and panel assembly. In one embodiment, the solar cell is a spherical shaped solar diode having a first substrate (e.g., n-type) surrounded by a p-type layer of semiconductor material. In addition, a plurality of hetero-junction super lattice structures are formed surrounding the p-type layer...See more on freepatentsonline uspto.gov[PDF]8350145 - image-ppubs pto.gov(54) PHOTOVOLTAIC GENERATOR WITH A SPHERICAL IMAGING LENS FOR USE WITH A PARABOLOIDAL SOLAR REFLECTOR (75) Inventor: Roger P Angel, Tucson, AZ (US)

The present invention relates generally to semiconductor devices, and more particularly, to a system and method for manufacturing spherical shaped solar cells and arranging the spherical ...

The device consists of a solar power generation spherical shell, a reflection condensing mirror, an inverter, a storage battery and a controller, wherein the solar power generation...

technical field [0001] The invention belongs to solar photoelectric conversion equipment, and mainly relates to a spherical photovoltaic power generation device that converts sunlight energy into electric ...

The present invention is intended for operation with an apparatus which provides concentrated solar energy delivered at low cost, but at relatively high input power levels, typically in ...

Capturing rays from all directions, Sphelar® cell can receive sunlight more effectively and constantly than conventional flat solar cells. What is Sphelar®? A spherical solar cell is a solar cell in which the ...

Abstract: A method of fabricating a photovoltaic solar cell is provided. A plurality of generally spherical semiconductor elements are provided. Each of the semiconductor elements has a core and an outer ...

In order to obtain maximum energy from spherical lens, a microcontroller based spherical lens system has

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been developed that takes into account both solar azimuth and altitude angles.

A new idea can solve the above problems: forming the solar cells onto a spherical thin shell and enveloping it around a balloon. When the balloon is raised to a certain height, it will not be blocked ...

Further, the second spherical photovoltaic panel is located below the first spherical photovoltaic panel, and the diameter of the second spherical photovoltaic panel is larger than that of...

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