

However, understanding of patent trends may provide broad insights into industrial technological activity in photovoltaics and also indicate a general extent to which countries and industry are willing to invest in next generation technologies.

Abstract: An electrical transmission system has solar electrical generation ...

SMA Solar Technology has filed a patent for a power converter that transfers power between an AC side and a DC side. The converter includes a bridge circuit connected to the AC side via AC switches and to the DC side via circuit breakers. It also features an insulation monitor to measure the insulation resistance of the DC side when the AC precharging circuit is ...

Many types of solar technologies can be patented, and there are often a variety of ways to craft patent claims for any type of technology. For solar technologies, it's useful to think about three broad categories of claims that might be ...

The analysis shows that 95% of the PV patent applications were filed by inventors from seven countries: Japan, Korea, China, USA, Germany, Taiwan, and France. Most patents were filed by companies and related to thin-film and crystalline-silicon cells as well as panel encapsulation and supporting structures.

The utility model relates to a solar energy balcony power generation system. The system comprises a solar cell module installed on a balcony wall body, a control inversion all-in-one machine and a storage battery. An output terminal of the solar cell module is connected with the control inversion all-in-one machine. The control inversion all-in-one machine is connected ...

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This invention is in the field of solar power generation for spacecraft, ... Fee Related; Patent Citations (10) * Cited by examiner, + Cited by third party; Publication number Priority date Publication date Assignee Title; US3781647A (en) * 1971-07-26: 1973-12-25: Little Inc A: Method and apparatus for converting solar radiation to electrical power US4078747A (en) * 1974-08 ...

The present invention relates to a solar thermodynamic machine power generation technology. 2. Description of Related Arts. In the current heat power generation method, heat energy is converted into mechanical energy by the steam turbine, and then into electrical energy. Therefore, the energy transmission links are more, the energy efficiency ...

Patents related to solar power generation technology

An emerging solar power generation technology is in the use of Building-integrated Photovoltaics (BIPVs), where photovoltaic materials are used to replace conventional building materials. In order to map the development of BIPV technology over time and explore technology paths, this study retrieved a total of 4914 patents dated from 1972 to 2016 from the ...

Solar panels are designed to use the photovoltaic effect to convert photons emitted by the sun into direct current (DC) power. However, in order to produce power useable for most existing environments, the DC power output by the solar panels must be ...

There is a prominence of deposited patents for polymer-based photovoltaic cell technologies, carbon nanostructures, III-V compounds, CdTe and amorphous silicon cells. The objective of this article is to identify the technological development of photovoltaic cells by the analysis of patents.

The research status and future development arrangement of solar power generation technology in various countries around the world are investigated. The principles, applications, advantages and disadvantages of two common solar power generation technologies, photovoltaic power generation and photothermal generation are introduced. In order to provide ...

The promise held by solar energy as a renewable resource has fueled investigations of all the ...

A solar power generator for generating electricity from sunlight in which a photovoltaic panel is provided so as to be oriented for minimising exposure to direct sunlight. A heat...

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