

# Automatic tracking photovoltaic bracket patent

The present invention provides an automatic solar tracking photovoltaic power generation device, comprising a box body and a solar panel arranged above the box body. The bottom of the ...

The invention belongs to the technical field of photovoltaic brackets, and particularly relates to an automatic welding system and method for a combined main shaft of a photovoltaic tracking bracket, wherein the automatic welding system comprises a joint pipe conveying mechanism, a welding mechanism and a connecting piece feeding mechanism: the joint pipe conveying ...

The utility model discloses an automatic tracking system for a photovoltaic panel, which comprises at least one photovoltaic panel bracket, wherein the photovoltaic panel bracket comprises a bottom frame and a placing plate obliquely arranged on the bottom frame, a linkage mechanism is arranged on the bottom frame, a driving device comprising a driving mechanism ...

The utility model provides a self-adaptive counter-glow tracking device used for photovoltaic power generation. The utility model has the advantages of simple structure, long service life, high reliability, low cost, good weatherability, without configuration requirement of accumulator and a charging controller or a discharging controller, and without requirement of controlling and ...

A kind of automatic adjustable photovoltaic bracket, concentric rotation column is installed in vertical columns upper sleeve, the bottom for rotating column is provided with rotating mechanism, the upper end for rotating column is fixed with pole, pole is connected with photovoltaic power generation plate, the telescopic advance lever parallel with pole is ...

The invention relates to a two-shaft automatic solar-tracking photovoltaic generating device. The device comprises a solar photovoltaic component, a platform bracket, a bracket, a lifting mechanism and a control system, wherein the platform bracket which is equipped with the solar photovoltaic component is arranged at the upper end of the bracket; the bracket comprises a ...

In addition, the requirements for photovoltaic intelligent tracking brackets are similar to those for other fixed brackets, and the same strict requirements: the sturdy structure is conducive to resisting wind pressure, snow pressure, earthquakes and corrosion, and can work normally in harsh environments for more than 25 years.

Its main business includes various photovoltaic fixed ground mounting structure, distributed mounting structure, tracking photovoltaic mounting structure, building mounting structure, and distributed power station development, etc. It is one of ...

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A technology of solar photovoltaic and illumination angle, applied in the field of solar photovoltaic brackets, can solve the problems of poor collection of solar energy to light sources, low ...

In embodiments, PV module assembly 200 can include a left hand PV module bracket 100A and a right-hand PV module bracket 100B, as shown in FIG. 2B, so that attachment tabs 113 of PV module brackets 100 of PV module assembly 200 extend in the same direction, as opposed to toward one another in opposite directions as would be the case if identical PV ...

2013-03-22 Priority to CN201310097208.5A priority Critical patent/CN104065332B/en ... can form solar energy uniaxial automatic tracking bracket, if initiatively scissor-like jack is driven by manpower, can form manual angle adjustable solar bracket. ... A kind of oblique uniaxial tracking bracket of photovoltaic generation CN102799189B (en ...

The present invention relates to a kind of photovoltaic brackets with anti-hail device, it is characterised in that including:A. in the mounting plate(1)Both ends, be respectively equipped with first axle(1a)With the second axis(1b), first axle(1a)It is connected to fore-stock by bearing(2)On, the second axis(1b)It is connected to after-poppet by bearing(3)On ...

A Computer Vision Line-Tracking Algorithm for Automatic UAV Photovoltaic Plants Monitoring Applications ... Rives, P. Image-based visual servoing for vanishing features and ground lines tracking ...

The invention relates to an automatic tracking double-shaft photovoltaic support system which comprises a solar panel platform, a Y-shaped support, a base and a solar panel platform running system. The solar panel platform is connected with the Y-shaped support by metal pin shafts, the Y-shaped support is fixedly connected with the base, the solar panel platform running system ...

The results indicate that 1) the number of patents deposited on photovoltaic cells grows every year, 2) the main depositor countries are the United States, China, Japan, Germany and South Korea, 3 ...

Disclosed is a driving device for an automatic tracking operation of a solar panel for a solar power generator. The device includes a housing, a worm gear, and upper and lower ring bearings. The worm gear is coupled to a worm mounted to a worm shaft, and a rotary gear is connected to an end of the worm shaft to engage with a drive gear. A thrust bearing is mounted on an upper ...

The invention relates to a two-axis automatic tracking solar photovoltaic power generation device which has low cost and is rapidly mounted. The device comprises a solar photovoltaic assembly, a platform supporting frame, a bracket, a lifting mechanism and a control system, wherein the platform supporting frame provided with the solar photovoltaic assembly is arranged at the ...

Company Introduction: Taizhou Suneast New Energy Technology Co., Ltd is a high-tech enterprise

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specializing in solar photovoltaic bracket design, production, installation and related consulting services. Company headquarters is located in the famous &quot;hometown of stainless steel&quot; Taizhou, Jiangsu province town, combined with local advantage resources, since 2005 ...

Based on the above reasons, in the seismic design of automatic tracking photovoltaic power generation system is a pressing matter of the moment [2]. ... and then drive the rotation of the motor to track bracket. The light sensor has received the most radiation from the sun, when the sun goes down or the sky light range, automatically return to ...

advanced N-type double-sided photovoltaic modules and horizontal single-axis automatic tracking brackets, making it the largest photovoltaic power plant in the world. This project has set up a business card for China's photovoltaic industry, and is ...

In order to realize automatic tracing control, photovoltaic tracking controller needs the time service time for obtaining upper Centralized Controller to use Calculated in position of sun, or directly obtain tracking angle signal that upper Centralized Controller converted for track support oneself Dynamic control function. Tracking control unit will be also realized according to the ...

The utility model provides an automatic tracking type photovoltaic support suitable for large-gradient terrain, which comprises an installation beam, a first connecting wheel positioned at the rear end of the installation beam and a supporting component arranged at the lower end of the installation beam, wherein the lower end surface of the installation beam is fixedly connected ...

The invention relates to an electric push rod-controlled photovoltaic generating set for automatically tracking the sun with double shafts, which comprises a solar panel, a bracket, a connecting frame, a transverse shaft and a longitudinal shaft, wherein the bracket comprises a base, a bracket column and a beam; the bracket column is installed on the base; the beam is ...

A new solar automatic tracking system is designed in this paper. The system is a closed-loop servo system with a brushless DC servomotor and a photoelectric encoder etc. Firstly, the circuit ...

Get the sample copy of Photovoltaic Tracking Bracket Market Report 2024 (Global Edition) which includes data such as Market Size, Share, Growth, CAGR, Forecast, Revenue, list of Photovoltaic Tracking Bracket Companies (NEXTracker, Clenergy, Arctech Solar, GSC, Unirac, FTC, K2 Systems, Schletter Solar, Huge Energy, Akcome, GRENGY, Suzhou ...

The invention relates to a pressure-driven solar photovoltaic panel automatic tracking device, which comprises: the photovoltaic panel is fixed on the rotating shaft, the rotating wheel is fixedly arranged on the rotating shaft, the transmission part is arranged on the rotating wheel, the two ends of the transmission part are respectively connected with the first balance weight and the ...

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Versolsolar Hangzhou Co., Ltd. was founded in 2009, headquartered in Hangzhou, China. It is a national high-tech enterprise founded and developed by overseas returnees. Versol's main business includes various PV mounting and tracking system, distributed power station development, pipe corridor brackets, transportation building brackets, etc. It is one of the ...

The large-span flat single-axis tracking type flexible photovoltaic bracket system comprises a plurality of load-bearing cable systems with fishbone structures, wherein each load-bearing cable system comprises a first cable 1, a second cable 2 and a supporting rod 3; the first inhaul cable 1 is of a down-warping structure, the second inhaul cable 2 is of an up-arch structure, and two ...

The invention discloses a photovoltaic single-axis tracking system based on an industrial wireless network and a control method. The photovoltaic single-axis tracking system comprises a photovoltaic tracking bracket (21), a bracket tracking controller (22), a wireless gateway (24) and a centre monitoring computer (25), wherein the photovoltaic tracking bracket (21) is connected ...

A technology for automatic tracking and photovoltaic power plants, applied in photovoltaic power generation, supporting structures of photovoltaic modules, photovoltaic modules, etc. Wind ...

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