

What are the patents on photovoltaic cells?

The patents on photovoltaic cells are concentrated in the area of semiconductors for the conversion of solar radiation into electric energy, in the area of generators for the direct conversion of light energy into electric energy and in the area of solar panels adapted for roof structures.

What is the relationship between the PV sector and patenting activities?

Besides its growing global trends, the significant relation between the PV sector and patenting activities can further be illustrated by two observations: The first is the numerous radical PV inventions that were initially filed in patents (e.g. Siemens reactor, HIT cells, and DSSC).

Why are photovoltaic cell patent registrations important?

Photovoltaic cell patent registrations are a valuable data set in the analysis and diffusion of PV technology and R&D activities. The dynamics of PV R&D activity is considered high, documented in a large increase in PV patent documents.

How has photovoltaic technology developed over the last 30 years?

Photovoltaic technology has developed rapidly over the last thirty years. The main activities of photovoltaic patents began in the late 1950s and the main photovoltaic patent assignees at that time were involved in the space business. Patent data has been widely used in technology assessment and forecasting.

Does PV technology have a role in patenting?

The technical review of these patents has shown the global continuous efforts for improving PV technologies and addressing their technical challenges. Taken together, the results show that the PV technological system has been deeply connected with patenting activities since its emergence in the past century.

What is the difference between SETO-funded patents and organic PV cells?

However, there are some differences. SETO-funded patents have a greater focus on back-junction PV cells and applications of PV in buildings. Hence, these are areas where SETO may have provided important funding where other organizations were less focused. Meanwhile, the other portfolios have a greater focus on organic PV cells.

2022-09-01 Priority to CN202211062832.7A priority Critical patent/CN115313998A/en ... a plurality of photovoltaic boards and a plurality of turn-off devices. ... a cut-off device is ...

The utility model discloses a cutting device for photovoltaic panel production, wherein a plurality of conveying rollers are arranged at the left end of a base, two ends of each conveying...



# Patent for photovoltaic cutting ABS board

A method of fabricating a photovoltaic label for a photovoltaic module includes providing a solar cell arrangement including a plurality of photovoltaic cells and electrical connections ...

An improved cutting board comprising a top surface and a bottom surface. The top surface is bounded by a raised edge curvilinearly extending into a channel encompassing a ...

A magnetic cutting board is generally rectangular shaped having a top surface, a bottom surface, a front surface, a rear surface, a left surface, and a right surface. ... 2021-09-17 Priority to ...

The invention belongs to the technical field of photovoltaic panel supports, and particularly discloses a photovoltaic panel mounting support capable of following. The invention provides a ...

A photovoltaic element having improved conversion efficiency and improved light confining property as well as a method of manufacturing the photovoltaic element with superior ...

The invention discloses a diamond wire for cutting photovoltaic large-size silicon wafers and a manufacturing method thereof, wherein the manufacturing method specifically comprises the ...

Dremel Tools: Precision and Versatility. Dremel tools are a popular choice for cutting ABS plastic due to their precision and versatility. These rotary tools are ideal for ...

Firstly, I explore "Choosing the Right Tools for Cutting ABS Plastic," where I discuss the effectiveness of various tools like Dremel, jigsaw, and hot knives. This section is crucial for ...

The utility model discloses a photovoltaic components of a three parts subassembly cutting equipment, including board, drive arrangement, cut cutter, driving motor, drive roller train and...

An automated photovoltaic (PV) subassembly manufacturing method involves in-line cutting of material strips. A tape is cut longitudinally into multiple strips. The strips are separated and ...

ABS comes in a variety of thicknesses that can be cut to specification. We cannot laser cut these plastic sheets due to the fact that ABS releases poisonous gasses which can be harmful. However, we can cut ABS with a CNC cutter. The ...

Under the title "Fabrication of thin-film, flexible photovoltaic module", the University of Delaware (USA) in cooperation with three other American companies (Microsoft ...

The photovoltaic cell is the most elementary photovoltaic device 1. A photovoltaic module 2 is a group of interconnected photovoltaic cells environmentally protected. The PV arrays are ...

the main technical problem to be solved by the present invention is to provide a photovoltaic module double-glass hole tape sticking machine, which has a compact structure, stable ...

The invention relates to the field of photovoltaic panels, and particularly discloses a solar photovoltaic panel hot knife stripping device, which comprises: the material guide mechanism ...

The utility model relates to the technical field of positioning devices, in particular to positioning and cutting equipment for a photovoltaic panel bracket. The automatic lifting device comprises a ...

The patent data search proceeded as follows: (1) a patent retrieval query was proposed as TS = (((BIPV or BAPV) AND building) or (building and photovoltaic\*)); (2) filtering ...

The utility model discloses a cutting device for a photovoltaic solar backboard, which comprises a shell and a transmission mechanism, wherein the transmission mechanism specifically ...

Yes, you can cut ABS plastic with a utility knife, but this method is best suited for thin sheets or scoring for snapping thicker pieces. To cut with a utility knife: 1. Secure the ...

Winco CBWT-1218 Cutting Board, 12 by 18 by 1/2-Inch, White. Options: 17 sizes. 4.8 out of 5 stars. 655. 3K+ bought in past month. ... Black Plastic Sheet Waterproof Rigid Thermoplastic ...

Firstly, I explore the Essential Tools for Cutting ABS Plastic, highlighting the effectiveness of various tools like Dremel tools, jigsaws, and hot knives. This section is crucial for ...

The utility model discloses a cutting device for photovoltaic panel production, wherein a plurality of conveying rollers are arranged at the left end of a base, two ends of each conveying roller are ...

Fig. 6 shows a world Choropleth map of accumulated PV patent applications per population of countries. Japan, Korea, and Taiwan hold the top per-capita PV patents of ...

FIG. 1 shows cutting board comprised of a center core 11 which may be fabricated from any one of a number of man-made construction boards such as fiberboard, composite board, particle ...

Photovoltaic cell patent registrations are a valuable data set in the analysis and diffusion of PV technology and R& D activities. The dynamics of PV R& D activity is considered ...

The present disclosure provides a flexible photovoltaic module, which can solve the foregoing problems, simplify the processing technology of the flexible photovoltaic module ...

ABS comes in a variety of thicknesses that can be cut to specification. We cannot laser cut these plastic sheets

due to the fact that ABS releases poisonous gasses which can be harmful. ...

CROSS-REFERENCES TO RELATED APPLICATIONS. The present application claims priority from and is a nonprovisional application of U.S. Provisional Patent Application No. 62/531,491, ...

[0532]Individual thin film CIGS semiconductor cells comprising a stainless steel supporting substrate 0.001 inch thick were cut to dimensions of 7.25 inch length and 1.75 inch ...

A photovoltaic device is provided comprising an energy conversion material. The energy conversion material comprises nanosized semiconductor quantum structures ...

The utility model discloses a cutting device for a photovoltaic backboard, which comprises the following components: the hydraulic support comprises a support seat, wherein a hydraulic rod ...

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