

What are the patents for solar panels?

It is noted that the patents US20040163338A1 (Low profile mounting system), US20060086382A1 (Mechanism for mounting solar modules) and US20110209745A1 (Photovoltaic framed module array mount using asymmetric rail) have great influence on this route due to their BC and were developed respectively by Unirac Inc, PVT Solar Inc and GE. Fig. 5.

What is the technological knowledge basis of photovoltaic-thermal system?

The technological knowledge basis of this route is constituted by patents on solar cells with an integrated diode and bypass method, passing through photovoltaic panels with individually articulated concentrating elements and patents on receivers for concentration of photovoltaic-thermal systems. 5.2.4.

How many patents are there for solar modules?

The TR of Mechanisms for Assembling Solar Modules (Fig. 5) is made up of 35 patents, extracted from a cluster of 11,830 patents and 24,174 citations, all of them protected in the USA, and more recently protected in China, EPO, Japan, Canada and the United Kingdom (UK).

What is the IPC GI for photovoltaic patents?

As search criteria, photovoltaic (PV) patents applied from 1998 to 2017 were selected and whose classification (IPC) are related to green technologies according to the IPC Green Inventory (IPC-GI) available on the WIPO (World Intellectual Property Organization). Such IPC of PV green technologies are shown in Table 2.

How many patents are there for polycrystalline silicon PV cells?

5.2.4. TR of methods and apparatus for polycrystalline silicon PV cells This TR was extracted from a cluster composed by 14,107 patents and 21,196 citations, which occupies a more peripheral position in the general network, being composed of 22 patents (Fig. 7).

What is the theoretical gap in solar PV technology?

The theoretical gap lies in the opportunity to improve the prospecting studies, enabling an understanding of the trends in technologies for the development of solar PV energy through an investigation based on patents classified by the IPC Green Inventory (IPC-GI).

the feeder assembly 16 takes two separate groups of sixteen tows 34 entering a rear portion 40 of the feeder assembly 16 in different locations and organizes those groups into a band of thirty ...

To strengthen plastic, engineers often add fiber reinforcement to secure the fiber while it carries the load and structure. But composites are expensive to build because the normal ...

The invention discloses a photovoltaic solar panel mounting bracket for a glass curtain wall. The photovoltaic solar panel mounting bracket comprises a beam, and a four-claw-shaped ...

Finally, we obtained 203545 patent information of the photovoltaic industry, including 102012 Chinese patent information and 101532 patent information of other countries, which we used ...

A composite resin and bracket material technology, applied in the field of materials, can solve the problems of low impact strength, high price of alloy materials, low bearing capacity of ...

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