



Solar cell welding patent

The invention discloses a soldering lamp and a soldering method for a solar cell. The lamp is provided with a lamp shell of which the bottom end is provided with an opening, an infrared lamp tube which is positioned on the upper part inside the lamp shell, a plurality of soldering pressing clips and a pressing clip fixing plate for supporting the plurality of soldering pressing clips, ...

The invention relates to the technical field of solar cells, and discloses a solar cell welding process; a self surface structure of a conveying belt is mainly used for enabling a downward tin layer surface of a solder strip to form a matched surface structure due to contact with the surface of the conveying belt in the welding process.

CN-111185687-A chemical patent summary. ... [Translated] A kind of IBC solar cell string welding production line and production method thereof. Patent. CN-111185687-A. Inventor. LI FUJUN . WANG JUN . JIANG YU . HUANG ZHAOWEI . WEN YONGLE . View More... Assignee. HANGZHOU CONFIRMWARE TECH CO LTD .

The invention discloses a solar cell string welding method, a solar cell module and a welding device, and relates to the technical field of solar cell welding. The welding method comprises the steps of welding and connecting a plurality of battery pieces into a first part of a battery string; welding and connecting a plurality of battery pieces to form a second part of the battery string ...

Currently, there are three different process options for OBB HJT solar cell welding, each with its own advantages and disadvantages: SWCT (Selective Wire Contact Technology): This method faces ...

Disclosed is a full-automatic series welding line for solar cells. A cell damage and grid line position detection correcting device, an efficiency detection device, a scrap removal device and a flux spray device in a series welder and above a pre-welding conveying device are corresponded to stations of the pre-welding conveying device, so that qualified cells are selected quickly and ...

Solar cell shingling, an approach first introduced in the 1950s, targets the reduction of CTM losses mainly by: 1) eliminating the cell spacing through the overlapping of neighbouring cells; 2)

A perovskite solar cell includes a first electrode; an electron transport layer on the first electrode, containing a semiconductor; a light-absorbing layer on the electron transport layer, containing a perovskite compound represented by a ...

Solar Cell String Welding Machine, Find Details and Price about Solar Cell String Welding Machine from Solar Cell String Welding Machine - Changzhou Pingyu Automation Equipment Co., Ltd. ... And applied for a number of patents. And Tianhe Tianhe, Tianwei Yingli, Gree air-conditioning, Suntech and other large companies have good cooperation ...



Solar cell welding patent

The present disclosure provides a method of fabricating a solar cell panel in an automated process by applying an adhesive pattern to a support, positioning a solar cell assembly over the pattern, and applying pressure to adhere the assembly to the support. ... 2015-07-09 Priority to US14/795,461 priority Critical patent ... generally in a ...

CN-111185687-A chemical patent summary. ... [Translated] A kind of IBC solar cell string welding production line and production method thereof. Patent. CN-111185687-A. ...

The invention discloses a solar cell welding method, which comprises the steps of welding a strip-shaped conductive connecting piece on one side of a cell; the single-side welding strip-shaped conductive connecting piece for the battery piece comprises the following steps: arranging a bearing surface for the battery piece to be attached on the outer surface of a welding carrier, ...

A perovskite solar cell includes a first electrode; an electron transport layer on the first electrode, containing a semiconductor; a light-absorbing layer on the electron transport layer, containing a perovskite compound represented by a compositional formula ABX_3 where A represents a monovalent cation, B represents a divalent cation, and X represents a halogen anion; a hole ...

The invention relates to a solar cell production device. A battery feeding device of a solar battery welding machine comprises an underframe, a material frame, a material pushing cylinder, a material pushing plate, a positioning cylinder, a positioning plate, a lifting frame, a direct current motor and a lead screw assembly; the material frame is fixedly arranged on the underframe, ...

Abstract: A solar cell is provided. The solar cell includes: an N-type silicon substrate having a first surface and a second surface, a tunnel passivation structure and a first passivation and anti-reflection film formed on the first surface, a boron-doped emitter structure layer including a first emitter layer and a second emitter region formed on the second surface, ...

The present disclosure provides a perovskite solar cell comprising at least an electrode, an electron transport layer, a hole transport layer, a perovskite layer and a passivation layer. In the perovskite solar cell, the passivation layer may contain a passivator, the passivator may comprise an aza fused bicyclic compound and/or an organic salt formed from ...

The utility model discloses a solar cell welding device which comprises a bracing frame (13) and a conveyor belt (11) that is arranged on the bracing frame (13) and is used for conveying a solar cell after welding. The solar cell welding device further comprises a purge apparatus (12). An air outlet of the purge apparatus (12) is arranged toward the conveyor belt (11).

The solar cell welding machine improves production efficiency, simplifies sorting and busbar welding operations and processes related to solar cell strings, enables solar cell...



Solar cell welding patent

All the time, longer life is a goal for Low Earth Orbit Satellite (LEO). LEO has short orbit period (about 97min), so it will experience thermal shock for approximately 5500 times per year. Long and frequent thermal recycling becomes a big challenge to the reliability of these systems, particularly to the reliability of solar cell interconnections. Hence, effective assessment of the ...

Patent: Machine for welding solar cell connections Machine for welding solar cell connections. Patent #183;
Tue Aug 09 00:00:00 EDT 1977

We are presenting the module integration of busbar-free back-junction back-contact (BJBC) solar cells. Our proof-of-concept module has a fill factor of 80.5% and a conversion efficiency on the designated area of 22.1% prior to lamination. A pulsed laser welds the Al metallization of the solar cells to an Al foil carried by a transparent substrate. The weld ...

2015-05-08 Priority to CN201520296887.3U priority Critical patent/CN204558494U/en ... and the utilization of solar energy is exactly one of them.Solar use cell panel generates electricity, welding is the important raw and processed materials in the welding photovoltaic component processes such as solar panel, the quality of welding quality will ...

The invention relates to a method for welding solar battery, which comprises heating welding process, and solidifying low-temperature conductive oil, wherein the invention also discloses a...

A solar cell welding machine (100) comprises a machine base, a conveying assembly (1), a first welding-strip feeding device (3), a second welding-strip feeding device (4), and a cell-member loading and unloading device (5), an interconnection welding device (6), and a busbar welding device (7). The machine base has a cell-member laying station (11), a waiting station (12), an ...

While not our first Chinese patent, it is the first one to recognise our Performance Series solar panel technology. Our P-19 solar panel architecture leverages a unique cell interconnect technology developed by Silicon Valley-based Cogenra Solar. We acquired Cogenra in 2015 and introduced our Performance Series solar panels that same year.

This is a divisional application of U.S. application Ser. No. 14/702,704 which claims priority to Provisional Patent Application No. 61/988,102 filed on May 2, 2014. ... The SPMs include interconnected solar cell assemblies, frontside and rearside shielding/coatings, substrate structure, mechanical attachment interfaces, and electrical ...

The invention discloses photovoltaic welding belt and photovoltaic module, it is related to photovoltaic cell interconnection technique field.A kind of photovoltaic welding belt includes matrix and the tin layers being coated on outside matrix, and the cross section triangularity of photovoltaic welding belt, side is included for the bottom surface of welding and for two ...



Solar cell welding patent

2016-12-27 Priority to CN201611229259.9A priority Critical patent/CN108258073A/en ... e.g. series connection of PV cells specially adapted for series or parallel connection of solar cells in a module the ... The pyramid structure can be further utilized with this by the light reflection to cell piece being incident on welding 100 Secondary ...

The welding method for the welding strip of the back-contact solar cell chip according to claim 1, wherein a method for welding the small cell assemblies separated from each other by the bus bar to reach the required length of the finished assembly product comprises: transmitting the small cell assemblies to a welding station through an ...

The triangular welding strip is used on the front of the solar cell and the super flexible flat welding strip is used on the back of the solar cell. Through the double welding strip technology, the micro spacing of adjacent half solar cells can be welded, and the spacing can be reduced to 0.2-0.4mm, realizing high energy density.

A method of manufacturing power modules for solar arrays generally comprises the following steps: (1) robotic positioning of diodes, interconnects and busbars onto a SPM stringing tray; (2) robotic positioning of bare cells into position adjacent to the diodes, interconnects and busbars to form strings; (3) robotic positioning of the front side ...

Disclosed are a low-temperature conductive silver paste for an HIT solar cell and a preparation method therefor. The low-temperature conductive silver paste for a HIT solar cell of the present invention is prepared from the following components in parts by mass: 27-46 parts of a flaked silver powder; 46-65 parts of a spherical silver powder; 1.5-3.5 parts of a thermosetting resin; ...

3. The welding method for the flexible and rollable silicon-based solar module according to claim 2, wherein each of the 13 small piece cells of the small piece cell string is 12 mm in length and 7.84 mm in width; a positive electrode of each of the 13 small piece cells and a negative electrode of each of the 13 small piece cells are respectively arranged at an end of a front side of each of ...

A welding ribbon and a solar cell assembly are provided. The welding ribbon comprises a composite core and a coating wrapped around said composite core; the composite core ...

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