

Title (en)
BUSBARLESS REAR CONTACT SOLAR CELL, METHOD OF MANUFACTURE THEREFOR AND SOLAR MODULE HAVING SUCH SOLAR CELLS

Title (de)
BUSBARLOSE RÜCKKONTAKTSOLARZELLE, DEREN HERSTELLUNGSVERFAHREN UND SOLARMODUL MIT SOLCHEN SOLARZELLEN

Title (fr)
CELLULE SOLAIRE À CONTACT ARRIÈRE, SANS BARRE OMNIBUS, PROCÉDÉ DE FABRICATION ET MODULE SOLAIRE PRÉSENTANT CES CELLULES SOLAIRES

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Application
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EP 2013052999 W 20130214

Abstract (en)
[origin: WO2014124675A1] A busbarless rear-contact solar cell and possible electrical interconnection thereof are presented. The substrate reverse (5) of a semiconductor substrate (3) has a plurality of linear emitter regions (15) and base regions (17) with which electrical contact is made by likewise linear emitter metal contacts (7) and base metal contacts (9), with the emitter metal contacts (7) being connected to one another, and the base metal contacts (9) being connected to one another, in electrically conductive fashion not by busbars that run parallel thereto and are in electrical contact with the substrate reverse (5). Each of the emitter metal contacts (7) and each of the base metal contacts (9) have, along an emitter region (15) or base region (17) that is in contact therewith, a plurality of interruptions (29, 31) that are substantially shorter than adjoining uninterrupted regions of emitter and base metal contacts (7, 9). First and second metal wires (19, 21) that are used for the interconnection of the solar cell can run through these interruptions (29, 31) so as to cross the emitter and base regions (15, 17), without producing shorts.

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