

Title (en)

SOLAR CELL HAVING A SPECIAL BUSBAR SHAPE, SOLAR CELL ARRANGEMENT CONTAINING SAID SOLAR CELL, AND METHOD FOR PRODUCING THE SOLAR CELL

Title (de)

SOLARZELLE MIT SPEZIELLER BUSBARFORM, DIESE SOLARZELLE ENTHALTENDE SOLARZELLENANORDNUNG SOWIE VERFAHREN ZUR HERSTELLUNG DER SOLARZELLE

Title (fr)

CELLULE SOLAIRE AVEC FORME SPÉCIALE DE BARRE DE BUS, AGENCEMENT DE CELLULES SOLAIRES CONTENANT CETTE CELLULE SOLAIRE ET PROCÉDÉ DE FABRICATION DE LA CELLULE SOLAIRE

Publication

EP 2543075 A2 20130109 (DE)

Application

EP 11708690 A 20110118

Priority

- DE 102010002521 A 20100302
- DE 2011075005 W 20110118

Abstract (en)

[origin: WO2011107089A2] The invention relates to a solar cell (1), comprising a substrate (2), a semiconductor layer (3), a first busbar (4) on a first surface (5) of the semiconductor layer (3), and a second busbar (6) on a second surface (7) of the semiconductor layer (3), wherein the first busbar (4) has contact pads (9, 9') along a connecting line (8), said contact pads having a maximum width b_{\max} perpendicular to the connecting line (8), a current collecting area (10) being located between the contact pads on the connecting line (8), the current collecting area contacting the contact pads (9, 9') in a contact area (11), wherein the contact area (11) has two outer points (P1) and (P2) on both sides of the connecting line (8), the distance of which outer points perpendicular to the connecting line (8) defines a maximum width b_{\max} of the current collecting area (10), wherein $b_{\max} \leq b$, and the width b of the current collecting area (10), starting from one contact pad (9) to an adjacent contact pad (9'), first decreases to a minimum width b_{\min} between two inner points (P3) and (P4) and then increases again to the adjacent contact pad (9') to a maximum width b_{\max} .

IPC 8 full level

H01L 31/0224 (2006.01)

CPC (source: EP US)

H01L 31/0201 (2013.01 - EP US); **H01L 31/022433** (2013.01 - EP US); **H01L 31/0504** (2013.01 - EP US); **Y02E 10/50** (2013.01 - EP US)

Citation (search report)

See references of WO 2011107089A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2011107089 A2 20110909; WO 2011107089 A3 20120503; CN 102884635 A 20130116; CN 102884635 B 20160120; DE 102010002521 A1 20111117; DE 102010002521 B4 20210318; EP 2543075 A2 20130109; JP 2013521635 A 20130610; JP 5819862 B2 20151124; US 2012318351 A1 20121220

DOCDB simple family (application)

DE 2011075005 W 20110118; CN 201180011459 A 20110118; DE 102010002521 A 20100302; EP 11708690 A 20110118; JP 2012555293 A 20110118; US 201113582016 A 20110118