

Title (en)

PHOTOVOLTAIC CELL HAVING A STRUCTURED BACK SURFACE AND ASSOCIATED MANUFACTURING METHOD

Title (de)

PV-ZELLE MIT STRUKTURIERTER RÜCKFLÄCHE UND ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)

CELLULE PHOTOVOLTAÏQUE À FACE ARRIÈRE STRUCTURÉE ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

EP 2567408 A2 20130313 (FR)

Application

EP 11723678 A 20110503

Priority

- FR 1001939 A 20100505
- IB 2011051954 W 20110503

Abstract (en)

[origin: WO2011138739A2] The invention relates to a photovoltaic cell (1) which includes at least one wafer (2) of a semi-conductor material, with a front surface (21) intended for receiving incident light and a back surface (22) opposite said front surface, as well as to methods for manufacturing said photovoltaic cell. The back surface (22) includes an electric contact (32) and a structure (4), referred to as an optical structure, which is discrete and capable of redirecting the incident light towards the core of the wafer.

IPC 8 full level

H01L 31/056 (2014.01); **H01L 31/0224** (2006.01); **H01L 31/18** (2006.01)

CPC (source: EP KR US)

H01L 31/0216 (2013.01 - KR US); **H01L 31/0224** (2013.01 - KR); **H01L 31/022425** (2013.01 - EP KR US); **H01L 31/0232** (2013.01 - KR US); **H01L 31/0236** (2013.01 - KR); **H01L 31/042** (2013.01 - KR); **H01L 31/052** (2013.01 - KR); **H01L 31/056** (2014.12 - EP KR US); **H01L 31/18** (2013.01 - KR); **Y02E 10/52** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2011138739A2

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 2011138739 A2 20111110; **WO 2011138739 A3 20130103**; EP 2567408 A2 20130313; FR 2959872 A1 20111111;
FR 2959872 B1 20130315; JP 2013526077 A 20130620; JP 5837053 B2 20151224; KR 20130113926 A 20131016; US 2013098437 A1 20130425

DOCDB simple family (application)

IB 2011051954 W 20110503; EP 11723678 A 20110503; FR 1001939 A 20100505; JP 2013508604 A 20110503; KR 20127031271 A 20110503;
US 201113695449 A 20110503