

Title (en)

PHOTOVOLTAIC MODULES HAVING A FILLING MATERIAL

Title (de)

PHOTOVOLTAIKMODULE MIT EINEM FÜLLMATERIAL

Title (fr)

MODULES PHOTOVOLTAÏQUES AYANT UN MATÉRIAU DE REMPLISSAGE

Publication

EP 2203942 A2 20100707 (EN)

Application

EP 08834026 A 20080925

Priority

- US 2008011133 W 20080925
- US 97517507 P 20070926
- US 3965908 A 20080228

Abstract (en)

[origin: WO2009042184A2] A photovoltaic module comprising an elongated substrate in which at least a portion of the elongated substrate is rigid is provided. One or more solar cells are disposed on the elongated substrate and each comprise: (i) a back-electrode disposed on the elongated substrate, (ii) a semiconductor junction layer disposed on all or a portion of a surface of the back-electrode, and (iii) a transparent conductive layer, having a first refractive index, is disposed on all or a portion of a surface of the semiconductor junction. The photovoltaic module further comprises a filler material, having a second refractive index that is smaller or equal in value to the first refractive index, disposed on the transparent conductive layer of the one or more solar cells. The photovoltaic module further comprises a transparent casing disposed on the filler material thereby sealing the photovoltaic module.

IPC 8 full level

H01L 31/0352 (2006.01)

CPC (source: EP)

H01L 31/02168 (2013.01); **H01L 31/0352** (2013.01); **H01L 31/048** (2013.01); **H01L 31/0543** (2014.12); **H01L 31/0547** (2014.12); **Y02E 10/52** (2013.01)

Citation (search report)

See references of WO 2009042184A2

Citation (examination)

MINAMI T: "TRANSPARENT CONDUCTING OXIDE SEMICONDUCTORS FOR TRANSPARENT ELECTRODES", SEMICONDUCTOR SCIENCE AND TECHNOLOGY, IOP PUBLISHING LTD, GB, vol. 20, no. 4, 1 April 2005 (2005-04-01), pages S35 - S44, XP001228750, ISSN: 0268-1242, DOI: 10.1088/0268-1242/20/4/004

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009042184 A2 20090402; **WO 2009042184 A3 20090806**; EP 2203942 A2 20100707

DOCDB simple family (application)

US 2008011133 W 20080925; EP 08834026 A 20080925