

Title (en)
SOLAR MODULE WITH JUNCTION BOX

Title (de)
SOLARMODUL MIT ANSCHLUSSDOSE

Title (fr)
MODULE SOLAIRE AVEC BOÎTE DE JONCTION

Publication
EP 2929570 A1 20151014 (DE)

Application
EP 13799579 A 20131205

Priority
• EP 12195784 A 20121206
• EP 2013075640 W 20131205
• EP 13799579 A 20131205

Abstract (en)
[origin: WO2014086914A1] Photovoltaic module at least comprising: - a laminated composite assembly comprising rear plate (2), photovoltaic layer system (3) and front plate (1) arranged one above another, - at least one contact element (9) in at least one contact hole (5) of the front plate (1) and/or of the rear plate (2), - at least one busbar (13) which electrically conductively connects the photovoltaic layer system (3) to at least one contact element (9), and - at least one junction box (7) which covers the at least one contact hole (5) with contact element (9) and is fixed to the front plate (1) and/or rear plate (2), wherein - the contact element (9) is electrically conductively connected to the busbar (13) via a contact area (15), - the busbar (13) has a tin plating (16), and - the diameter of the tin plating (16) is from one to two times the diameter of the contact area (15), - the contact element (9) comprises at least one contact pin (9.1), a contact counter part (9.2) and a spring (9.3), and - there is a soldering-free, clamping connection between the contact element (9) and the busbar (13).

IPC 8 full level
H01L 31/048 (2014.01); **H01L 31/18** (2006.01)

CPC (source: EP)
H01L 31/188 (2013.01); **H02S 40/34** (2014.12); **Y02E 10/50** (2013.01)

Citation (search report)
See references of WO 2014086914A1

Cited by
CN113871500A

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014086914 A1 20140612; EP 2929570 A1 20151014

DOCDB simple family (application)
EP 2013075640 W 20131205; EP 13799579 A 20131205