

Title (en)

PROCESS FOR MANUFACTURING A MULTI-JUNCTION STRUCTURE FOR A PHOTOVOLTAIC CELL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER STRUKTUR MIT MEHREREN ANSCHLÜSSEN FÜR EINE FOTOVOLTAIKZELLE

Title (fr)

Procédé de fabrication d'une structure à multijonctions pour cellule photovoltaïque

Publication

**EP 2979306 A1 20160203 (FR)**

Application

**EP 14718665 A 20140324**

Priority

- FR 1352627 A 20130325
- FR 2014050689 W 20140324

Abstract (en)

[origin: WO2014154993A1] Process for manufacturing a multi-junction structure for a photovoltaic cell. The process comprises steps consisting in: a) providing a first donor substrate (1) comprising a first carrier substrate (3) and a first seed layer (4) comprising a first material; b) providing a second donor substrate (5) comprising a second carrier substrate (6) and a second layer (7) comprising a second material different from the first material; c) bringing the first seed layer (4) and the second layer (7) into contact so as to obtain a direct bond between the first seed layer (4) and the second layer (7) with a view to forming the bonding interface (9); d) removing the first carrier substrate (3) so as to expose the first seed layer (4); and e) epitaxially growing at least one first junction (11) on the first seed layer (4).

IPC 8 full level

**H01L 31/18** (2006.01); **H01L 31/0687** (2012.01); **H01L 31/0693** (2012.01)

CPC (source: EP US)

**H01L 31/0687** (2013.01 - EP US); **H01L 31/0693** (2013.01 - EP US); **H01L 31/1804** (2013.01 - US); **H01L 31/184** (2013.01 - EP US); **H01L 31/1892** (2013.01 - US); **H01L 31/1896** (2013.01 - EP US); **H01L 21/76254** (2013.01 - EP US); **Y02E 10/544** (2013.01 - EP US); **Y02E 10/547** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)

See references of WO 2014154993A1

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Designated extension state (EPC)

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DOCDB simple family (application)

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