

Title (en)

SELF ALIGNED CONTACTS FOR BACK CONTACT SOLAR CELLS

Title (de)

SELBSTAUSGERICHTETE KONTAKTE FÜR RÜCKSEITENKONTAKT VON SOLARZELLEN

Title (fr)

CONTACTS AUTO-ALIGNÉS POUR CELLULES SOLAIRES À CONTACT ARRIÈRE

Publication

EP 3111482 A1 20170104 (EN)

Application

EP 15755082 A 20150226

Priority

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- US 2015017852 W 20150226

Abstract (en)

[origin: WO2015130989A1] According to one aspect of the disclosed subject matter, self aligned contacts for a back contact back junction solar cell are provided. The solar cell comprises a semiconductor layer having a light receiving frontside and a backside opposite the frontside and attached to an electrically insulating backplane. A first metal layer having base and emitter electrodes self aligned to base and emitter regions is positioned on the semiconductor layer backside. A patterned second metal layer providing cell interconnection and connected to the first metal layer by via plugs is positioned on the backplane.

IPC 8 full level

H01L 31/0224 (2006.01); **H01L 31/04** (2014.01); **H01L 31/049** (2014.01)

CPC (source: EP KR)

H01L 31/0224 (2013.01 - KR); **H01L 31/022441** (2013.01 - EP); **H01L 31/04** (2013.01 - KR); **H01L 31/049** (2014.12 - KR); **H01L 31/0682** (2013.01 - EP); **H01L 31/1804** (2013.01 - EP); **Y02E 10/50** (2013.01 - KR); **Y02E 10/547** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

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Designated extension state (EPC)

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