

Title (en)

METHOD FOR PRODUCING A SOLAR CELL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER SOLARZELLE

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE CELLULE SOLAIRE

Publication

EP 2556545 A2 20130213 (DE)

Application

EP 11703234 A 20110216

Priority

- DE 102010003784 A 20100409
- EP 2011052257 W 20110216

Abstract (en)

[origin: WO2011124409A2] The invention relates to a method for producing a solar cell from a silicon substrate, which has a first main surface serving as a light incidence side during use and a second main surface serving as a rear side, having a passivation layer on the second main surface, comprising the steps of: applying an oxide-containing layer to the second main surface of the silicon substrate; and heating the silicon substrate to a temperature of at least 800°C to compact the oxide-containing layer and to oxidize the interface between the oxide-containing layer and the second main surface of the silicon substrate to form a thermal oxide, wherein an oxygen source delivers oxygen for the oxidation.

IPC 8 full level

H01L 31/18 (2006.01)

CPC (source: EP KR US)

H01L 31/0216 (2013.01 - KR); **H01L 31/02167** (2013.01 - EP US); **H01L 31/04** (2013.01 - KR); **H01L 31/18** (2013.01 - KR); **H01L 31/1804** (2013.01 - EP US); **Y02E 10/547** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)

See references of WO 2011124409A2

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)

DE 102010003784 A1 20111013; CN 102822988 A 20121212; CN 102822988 B 20161116; EP 2556545 A2 20130213; JP 2013524524 A 20130617; JP 5656095 B2 20150121; KR 20130050301 A 20130515; US 2013089942 A1 20130411; WO 2011124409 A2 20111013; WO 2011124409 A3 20120510

DOCDB simple family (application)

DE 102010003784 A 20100409; CN 201180017924 A 20110216; EP 11703234 A 20110216; EP 2011052257 W 20110216; JP 2013503046 A 20110216; KR 20127029330 A 20110216; US 201113640165 A 20110216