

Title (en)

METHOD FOR PRODUCING A SOLAR CELL AND SOLAR CELL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER SOLARZELLE UND SOLARZELLE

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE CELLULE SOLAIRE ET CELLULE SOLAIRE

Publication

EP 2351109 A2 20110803 (DE)

Application

EP 09783485 A 20090928

Priority

- EP 2009062526 W 20090928
- DE 102008054093 A 20081031
- DE 102009008786 A 20090213

Abstract (en)

[origin: WO2010049229A2] The invention relates to a method for producing a solar cell from (a) an n-doped semiconductor substrate, especially from silicon, which has a main surface that serves as the light incidence side when used and a second main surface that serves as the back, an n⁺ region, front surface field, configured in the first main surface, and an p⁺ emitter configured in the second main surface by doping with aluminum, or (b) a p-doped substrate, especially silicon, which has an n⁺ emitter configured on the first main side and an p⁺ region, i.e. a back surface field, configured in the second main surface by doping with aluminum, the doping with aluminum being carried out by diffusion of the aluminum from an aluminum-containing source layer applied to the second main surface, in such a manner that the Al concentration profile, starting from the second main surface towards the semiconductor substrate, substantially has a profile where the highest Al concentration is on the second main surface or directly next to it.

IPC 8 full level

H01L 31/18 (2006.01); **H01L 31/068** (2012.01)

CPC (source: EP)

H01L 31/0288 (2013.01); **H01L 31/068** (2013.01); **H01L 31/0682** (2013.01); **H01L 31/1804** (2013.01); **Y02E 10/547** (2013.01); **Y02P 70/50** (2015.11)

Citation (search report)

See references of WO 2010049229A2

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2010049229 A2 20100506; **WO 2010049229 A3 20110106**; DE 102009008786 A1 20100610; EP 2351109 A2 20110803

DOCDB simple family (application)

EP 2009062526 W 20090928; DE 102009008786 A 20090213; EP 09783485 A 20090928