

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

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Application

**EP 09783485 A 20090928**

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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<sup>+</sup> region, front surface field, configured in the first main surface, and an p<sup>+</sup> emitter configured in the second main surface by doping with aluminum, or (b) a p-doped substrate, especially silicon, which has an n<sup>+</sup> emitter configured on the first main side and an p<sup>+</sup> 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

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