

Title (en)

METHOD FOR PRODUCING SOLAR CELLS HAVING SELECTIVE EMITTER

Title (de)

VERFAHREN ZUR HERSTELLUNG VON SOLARZELLEN MIT SELEKTIVEM EMITTER

Title (fr)

PROCÉDÉ DE FABRICATION DE CELLULES SOLAIRES À ÉMETTEUR SÉLECTIF

Publication

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Application

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Abstract (en)

[origin: WO2010115730A1] The invention relates to a method for producing solar cells having a selective emitter. Wafers (1) having no saw damage are first provided. A full-surface application of a doping source (2) to the wafer and a light, first inward diffusion of the dopant are then carried out until a first film resistor region is obtained. The applied doping source is then structured, wherein only those regions (4) remain as a result of the structuring that substantially correspond to the sections on the wafer to be contacted later. Another, second diffusion from the remaining regions of the doping source into the wafer volume is then carried out until a second film resistor region for the selective emitter (4) and a simultaneous redistribution of the dopant (5) introduced during the first diffusion are obtained, having the goal of lowering the dopant concentration in the region near the surface that is no longer covered by the doping source, under the condition that the film resistor values of the first film resistor region are larger than those of the second film resistor region.

IPC 8 full level

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CPC (source: EP US)

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