

Title (en)

PHOTOVOLTAIC SOLAR CELL AND METHOD FOR PRODUCING A METALLIC CONTACT-CONNECTION OF A PHOTOVOLTAIC SOLAR CELL

Title (de)

PHOTOVOLTAISCHE SOLARZELLE UND VERFAHREN ZUM HERSTELLEN EINER METALLISCHEN KONTAKTIERUNG EINER PHOTOVOLTAISCHEN SOLARZELLE

Title (fr)

CELLULE SOLAIRE PHOTOVOLTAÏQUE ET PROCÉDÉ DE RÉALISATION DE CONNEXIONS MÉTALLIQUES DANS UNE CELLULE SOLAIRE PHOTOVOLTAÏQUE

Publication

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Application

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Abstract (en)

[origin: WO2015044109A1] The invention relates to a method for producing a metallic contact-connection of a photovoltaic solar cell, comprising the following method steps: A providing a semiconductor substrate and B applying an aluminum-containing contact-connection layer indirectly or directly to a side of the semiconductor substrate. The invention is characterized in that in a method step C a diffusion barrier layer, which acts as a diffusion barrier at least with respect to aluminum, is applied indirectly or directly to the contact-connection layer, and in a method step D a solderable layer composed of a solderable material is applied indirectly or directly to the diffusion barrier layer, and in that the diffusion barrier layer and the contact-connection layer are applied by means of a PVD method.

IPC 8 full level

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CPC (source: EP US)

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