

Title (en)

SOLAR CELL AND PROCESS FOR PRODUCING A SOLAR CELL

Title (de)

SOLARZELLE UND VERFAHREN ZUM HERSTELLEN EINER SOLARZELLE

Title (fr)

CELLULE SOLAIRE ET PROCÉDÉ DE FABRICATION D'UNE CELLULE SOLAIRE

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Application

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Priority

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Abstract (en)

[origin: WO2013080072A2] The present invention relates to a solar cell and to a process for producing such a solar cell which involves producing a solar cell core in which a charge separation and a charge transfer to an emitter and to a base located on a side of the solar cell that is opposite from the emitter are provided when there is incident light in a front side of the solar cell; which involves producing an electrically conductive emitter-contact structure in the form of contact fingers that are in direct electrical contact with the emitter; and which involves producing a solderable metallic emitter-terminal structure in the form of conductor bars that are in direct electrical contact with the emitter-contact structure and transversely connect the contact fingers of the emitter-contact structure; wherein the emitter and the base are contacted on opposite sides of the solar cell. The object of the present invention is to propose a simply constructed and reliably operating solar cell of the generic type mentioned and a corresponding solar cell production process with which solar cell production costs can be reduced. This object is achieved by a solar cell and a solar cell production process of the generic type mentioned, wherein the solderable metallic emitter-terminal structure is produced at least from nickel, a nickel alloy, tin and/or a tin alloy, and a solder or an electrically conductive strip arrangement covered with a solder is applied to this emitter-terminal structure.

IPC 8 full level

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