

Title (en)
PHOTOVOLTAIC ASSEMBLY

Title (de)
PHOTOVOLTAIK-BAUGRUPPE

Title (fr)
ENSEMBLE PHOTOVOLTAÏQUE

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Application
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Abstract (en)
[origin: WO2012104208A2] The invention relates to a photovoltaic assembly (10) comprising a support substrate (12) consisting of silicon, a solar cell (26), in particular a solar concentrator cell, said cell having a first and a second solar cell contact (28, 30) and being connected to the upper face (38) of the support substrate (12) by means of the first solar cell contact (28), a pn-junction (46) that is integrated into the support substrate (12) in order to form a protective diode (14) comprising a first protective diode contact (16) and a second protective diode contact (20), said diodes being connected in anti-parallel to the solar cell (26). In order to design the contacts of the protective diode with as large a surface area as possible and to permit a simple contacting of the solar cell, the first and second protective diode contact (16, 20) form a first and second surface area (18, 22) respectively of the upper face (38) of the support substrate (12).

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Citation (search report)
See references of WO 2012104208A2

Citation (examination)
• DE 102008055475 A1 20100610 - AZUR SPACE SOLAR POWER GMBH [DE]
• DE 10056214 A1 20020529 - RWE SOLAR GMBH [DE]
• DE 68923061 T2 19951109 - MITSUBISHI ELECTRIC CORP [JP]

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