Title (en)

SOLAR PANEL HAVING OPTIMIZED INTERCONNECTION, AND METHOD FOR MANUFACTURING SAME

Title (de)

SOLARMODUL MIT OPTIMIERTER VERSCHALTUNG SOWIE VERFAHREN ZUM FERTIGEN DESSELBEN

Title (fr)

PANNEAU SOLAIRE À INTERCONNEXION OPTIMISÉE ET SON PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

[origin: WO2022258361A1] The invention relates to a solar panel (1) and a method for manufacturing same. The solar panel has a plurality of solar cell arrays (3), a cross connector (37) and an encapsulation (39). Each of the solar cell arrays has solar cell substrates (5) having contact structures (13), and an interconnection structure (7) comprising a plurality of round wires (21, 23, 25). Some of the wires (25) have, in a flattened region (27), a flatter cross-section than the same wires (25) in a non-flattened region (29) adjoining the flattened region (27) and/or than others of the wires (23). The flattened region (27) is arranged at and/or close to an edge (31) of an end solar cell substrate (6) so as to adjoin a portion of the contacting surface of a rear face of the solar cell substrate. At least two strings (17) of solar cell arrays (3) are arranged next to one another and are interconnected by means of the cross connector (37). The cross connector (37) overlaps the wires (25) of the respective end solar cell substrates (6) of each of the two strings (17) in the flattened region (27) and directly contacts the wires (25) there. The encapsulation (39) surrounds the solar cell arrays (3) and the cross connector (37) so as to encapsulate both.

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