

Title (en)

LIGHT, RIGID, SELF-SUPPORTING SOLAR MODULE AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

LEICHTES, BIEGESTEIFES UND SELBSTTRAGENDES SOLARMODUL SOWIE EIN VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

MODULE SOLAIRE LÉGER, RÉSISTANT À LA FLEXION ET AUTOPORTANT ET PROCÉDÉ DE FABRICATION D'UN TEL MODULE

Publication

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Application

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Priority

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- DE 102009014348 A 20090321

Abstract (en)

[origin: US2011155222A1] The solar module according to the invention consists of a transparent adhesive layer (1), in which the solar cells (3) that are interconnected by cell connectors (2) are embedded. A transparent, UV stable, thin front layer (4), composed for example of a thin pane of glass, is located above said adhesive layer. The supporting sandwich element (5), consisting of a nucleic layer (6) and glass fibre layers (7) bonded by means of polyurethane is located on the rear face. Fastening elements (8) and an electric socket (9) are integrated into the supporting sandwich element. A barrier film (10), which prevents the entry of water and oxygen, adjoins the sandwich element. The solar module has peripheral edge protection (11) consisting of elastomeric polyurethane, which prevents the lateral penetration of water, dirt and oxygen. The invention also relates to a method for producing the solar module.

IPC 8 full level

H01L 31/048 (2006.01)

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Citation (search report)

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