

Title (en)  
PHOTOVOLTAIC MODULE WITH HEAT EXCHANGER

Title (de)  
PHOTOVOLTAISCHES MODUL MIT EINEM WÄRMETAUSCHER

Title (fr)  
MODULE PHOTOVOLTAÏQUE AVEC ÉCHANGEUR THERMIQUE

Publication  
**EP 2740161 A2 20140611 (FR)**

Application  
**EP 12743722 A 20120803**

Priority  
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Abstract (en)  
[origin: WO2013017677A2] The device according to the invention is a photovoltaic module with a heat exchanger, comprising: a plurality of panels consisting of photovoltaic cells; a bearing structure itself comprising a non-planar external surface forming an exposure face defining a channel with a flat central base bounded by two side walls, said structure being intended to be exposed to solar radiation and bearing the photovoltaic cell panels; and a heat transfer region defining a cavity having an internal surface intended to make contact with a heat-transfer fluid flowing in the cavity. The module converts solar radiation received into electricity and transfers the heat stored and produced to a heat-transfer fluid, which after its passage through the module flows through a fluid circuit comprising a heat exchanger. The non-planar nature of the exposure face allows the area available for capturing solar radiation and the electrical power produced to be increased for photovoltaic panels of a given footprint.

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Citation (search report)  
See references of WO 2013017677A2

Citation (examination)  
US 2010154866 A1 20100624 - KHAN SITARA R [US]

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