

Title (en)
CONCENTRATOR PHOTOVOLTAIC DEVICE, PV CONCENTRATOR MODULE FORMED THEREFROM AND PRODUCTION PROCESS THEREFOR

Title (de)
KONZENTRATOR-PHOTOVOLTAIK-EINRICHTUNG, DARAUS GEBILDETES PV- KONZENTRATORMODUL SOWIE HERSTELLVERFAHREN HIERFÜR

Title (fr)
DISPOSITIF PHOTOVOLTAIQUE CONCENTRATEUR, MODULE CONCENTRATEUR PHOTOVOLTAIQUE FORME DE CES DISPOSITIFS, AINSI QUE PROCEDE DE PRODUCTION CORRESPONDANT

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Application
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Priority

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- DE 102005033272 A 20050715

Abstract (en)
[origin: WO2006128417A1] The invention relates to a photovoltaic device for directly converting solar power into electrical power using a solar cell which has a smaller areal expanse than a light inlet area on the photovoltaic device, an optical unit for concentrating or focusing the solar radiation entering through the light inlet area onto a prescribed region which is determined by the relatively small area of the solar cell, is at a distance from the light inlet area and has a smaller area than the light inlet area, and a transparent support on which the solar cell is fitted. For simpler and economic manufacture of the device, it is proposed that the support be a transparent light outlet body through which the concentrated or focused solar radiation can pass and that the solar cell be fitted on a side of the light outlet body which is remote from the light inlet area and/or the optical unit. In addition, a PV concentration module formed from a plurality of such photovoltaic devices and an advantageous production method therefor are proposed.

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