

Title (en)

OPTICAL DEVICE FOR REDUCING THE VISIBILITY OF ELECTRICAL INTERCONNECTIONS IN SEMI-TRANSPARENT THIN-FILM PHOTOVOLTAIC MODULES

Title (de)

OPTISCHE VORRICHTUNG ZUR VERRINGERUNG DER SICHTBARKEIT VON ELEKTRISCHEN VERBINDUNGEN IN SEMITRASPARENTEN DÜNNSCHICHTFOTOVOLTAIKMODULEN

Title (fr)

DISPOSITIF OPTIQUE POUR DIMINUER LA VISIBILITE DES INTERCONNEXIONS ELECTRIQUES DANS DES MODULES PHOTOVOLTAIQUES SEMI-TRANSPARENTS EN COUCHES MINCES

Publication

EP 3391421 A1 20181024 (FR)

Application

EP 16823305 A 20161212

Priority

- FR 1502617 A 20151216
- FR 2016000207 W 20161212

Abstract (en)

[origin: WO2017103350A1] Problem to be solved: the invention relates to thin-film photovoltaic modules which are made semi-transparent by laser ablation or by lithography processes. The transparency areas (6) form a network of repetitive patterns such as a network of circular or hexagonal holes. The electrical insulation lines (P1, P3) and the electrical interconnection lines P2 between the cells are positioned at random either in the transparency areas (6) or in the non-transparency areas, and demonstrate visual effects which reduce the homogeneous quality of said photovoltaic module. The solution to said problem is as follows: in order to make them invisible to the naked eye, said electrical insulation lines P1 and P3 are positioned in transparency areas (6) arranged in straight bands (7, 8) having high transparency density, and the electrical interconnection lines P2 are positioned in transparency areas (6) arranged in straight bands (9) having low transparency density.

IPC 8 full level

H01L 31/0468 (2014.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2017103350A1

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