

Title (en)

MODULAR PHOTOVOLTAIC ELEMENT FOR BUILDING ROOFS

Title (de)

MODULARES FOTOVOLTAISCHES ELEMENT FÜR GEBÄUDEDÄCHER

Title (fr)

ÉLÉMENT PHOTOVOLTAÏQUE MODULAIRE PERMETTANT DE CONSTRUIRE DES TOITS

Publication

EP 2087528 A1 20090812 (EN)

Application

EP 07802424 A 20070730

Priority

- EP 2007057822 W 20070730
- IT TV20060196 A 20061102
- IT VE20070024 A 20070420

Abstract (en)

[origin: WO2008052816A1] A modular photovoltaic element for building roofs comprising: - a lower hollow structural part (4) of plastic material, - an upper convex cover element (6) of material transparent to sunlight and fixed to said hollow part, - at least one photovoltaic cell (8) mounted on a support (20) and housed in a cavity defined by said hollow part (4) and said convex cover element (6), - cabling (36, 38) associated with said photovoltaic cell (8), - provided in said hollow part (4), a compartment (32) which is separate from the cavity housing said photovoltaic cell (8), and which houses means (34) for electrical connection to the adjacent modular element of the same row, partially superposed to cover said compartment (32), - connection cables (36, 38) joined to watertight connectors (34, 30) positioned on the surmounting portions of adjacent hollow parts (4) of one and the same row, said connectors being connected to said photovoltaic cell (8) and to said integrated circuit (40), - means (24, 26) for mechanically connecting said cover element (6) to said hollow part (4), - means (42, 44) for mechanically connecting said hollow part (4) to the hollow part of adjacent elements of the same row, - a member (2) for mechanically connecting said hollow part (4) to the underlying roof structure.

IPC 8 full level

H01L 31/048 (2006.01)

CPC (source: EP US)

H01L 31/0543 (2014.12 - EP US); **H02S 20/25** (2014.12 - EP US); **Y02B 10/10** (2013.01 - EP US); **Y02E 10/52** (2013.01 - EP US)

Citation (search report)

See references of WO 2008052816A1

Cited by

CN110995124A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008052816 A1 20080508; AU 2007316329 A1 20080508; CA 2667400 A1 20080508; EP 2087528 A1 20090812; US 2010064605 A1 20100318

DOCDB simple family (application)

EP 2007057822 W 20070730; AU 2007316329 A 20070730; CA 2667400 A 20070730; EP 07802424 A 20070730; US 31224207 A 20070730