

Title (en)  
CURVED MODULE CONTAINING PHOTOVOLTAIC CELLS

Title (de)  
GEKRÜMMTES MODUL MIT PV-ZELLEN

Title (fr)  
MODULE BOMBE A CELLULES PHOTOVOLTAÏQUES

Publication  
**EP 2510555 A1 20121017 (FR)**

Application  
**EP 10801627 A 20101206**

Priority  
• FR 0958727 A 20091208  
• FR 2010052611 W 20101206

Abstract (en)  
[origin: WO2011070277A1] The invention relates to a module made of a transparent polymeric material in which rectangular photovoltaic cells are embedded, characterized in that the sides of said photovoltaic cells have lengths  $l_1$  and  $l_2$  in respective perpendicular directions  $d_1$  and  $d_2$ , according to which the module has radii of curvature  $R_1$  and  $R_2$  respectively, and in that, if  $e_t$  is the total thickness of polymeric material and  $e_{sup}$  is the minimum thickness of polymeric material covering the photovoltaic cells on the sun-facing side, then, for  $i = 1$  and  $2$ , formula (I) applies. The invention also relates to two methods for producing such a module, to its application for a transport vehicle, for construction or for street furniture, and to a roof or part of a roof of a motor vehicle comprising such a module.

IPC 8 full level  
**H01L 31/048** (2006.01)

CPC (source: EP KR US)  
**H01L 31/048** (2013.01 - EP KR US); **Y02B 10/10** (2013.01 - EP US); **Y02E 10/50** (2013.01 - EP US); **Y02T 10/90** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**FR 2953645 A1 20110610**; **FR 2953645 B1 20120427**; CN 102859717 A 20130102; EP 2510555 A1 20121017; JP 2013513248 A 20130418; KR 20120104286 A 20120920; US 2013000701 A1 20130103; WO 2011070277 A1 20110616

DOCDB simple family (application)  
**FR 0958727 A 20091208**; CN 201080060795 A 20101206; EP 10801627 A 20101206; FR 2010052611 W 20101206; JP 2012542599 A 20101206; KR 20127017607 A 20101206; US 201013514732 A 20101206