

Title (en)
SOLAR ROOFING PANEL

Title (de)
SOLAR-DACHPANEL

Title (fr)
TOITURE SOLAIRE

Publication
EP 2371012 A1 20111005 (FR)

Application
EP 09802156 A 20091201

Priority
• FR 2009052360 W 20091201
• FR 0858148 A 20081201

Abstract (en)
[origin: WO2010063944A1] This solar roofing panel (1) comprises at least one photovoltaic device (3), having a front structure (30) and a rear structure (31), and at least one solar collector (4) capable of delivering hot water, having a front structure (40) and a rear structure (41). The respective front structures (30, 40) of the photovoltaic device (3) and of the solar collector (4) consist of glass substrates (20, 22) forming cover that has an upper face, intended to face the external environment, and an opposed, inner face (11), the respective rear structures (31, 41) of the photovoltaic device (3) and of the solar collector (4) being placed beneath the cover, facing the inner face (11). The glass substrates (20, 22) have no metal frames and are joined together, possibly being separated by other, transition glass substrates (21) so as to form a uniform unitary glass cover.

IPC 8 full level
E04D 13/18 (2006.01); **F24J 2/52** (2006.01); **H01L 31/048** (2006.01)

CPC (source: EP KR US)
E04D 3/06 (2013.01 - EP US); **E04D 13/00** (2013.01 - KR); **F24S 20/67** (2018.04 - EP US); **F24S 25/60** (2018.04 - EP US); **F24S 80/50** (2018.04 - EP US); **F24S 80/58** (2018.04 - EP US); **H01L 31/0547** (2014.12 - KR); **H02S 20/23** (2014.12 - EP US); **F24S 2020/13** (2018.04 - EP US); **F24S 2020/17** (2018.04 - EP US); **Y02B 10/10** (2013.01 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02B 10/70** (2013.01 - EP US); **Y02E 10/44** (2013.01 - US); **Y02E 10/47** (2013.01 - EP US); **Y02E 10/52** (2013.01 - EP)

Citation (search report)
See references of WO 2010063944A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
FR 2939162 A1 20100604; CN 102301494 A 20111228; EP 2371012 A1 20111005; JP 2012510604 A 20120510; KR 20110099233 A 20110907; US 2011232213 A1 20110929; US 8272177 B2 20120925; WO 2010063944 A1 20100610

DOCDB simple family (application)
FR 0858148 A 20081201; CN 200980155856 A 20091201; EP 09802156 A 20091201; FR 2009052360 W 20091201; JP 2011539077 A 20091201; KR 20117012531 A 20091201; US 200913131463 A 20091201