

Title (en)
SOLAR MODULE COMPRISING A STONE FRAME

Title (de)
SOLARMODUL MIT STEINRAHMEN

Title (fr)
MODULE SOLAIRE AVEC CADRE EN PIERRE

Publication
EP 3284170 A1 20180221 (DE)

Application
EP 16735990 A 20160416

Priority
• DE 202015002866 U 20150417
• EP 2016000626 W 20160416

Abstract (en)
[origin: CA2983053A1] The invention relates to a new way of stabilizing and mounting solar panels in the form of conventional heat exchangers comprising a trough and a glass cover or of a photovoltaic panel on house walls with the aid of frames made of natural or artificial stones which are made break-resistant using fiber materials and are stabilized in such a way that the panels are also break-resistant on impact and can be mounted as self-supporting structures on a wall; furthermore, the panels in particular satisfy high standards in respect of esthetics and are low-maintenance and thus permanently appealing. Multiple solar panels comprising stone frames can form entire stone-solar panel facades.

IPC 8 full level
H02S 30/10 (2014.01)

CPC (source: CN EP KR US)
F24S 80/45 (2018.04 - EP US); **H01L 31/048** (2013.01 - CN EP US); **H01L 31/0481** (2013.01 - KR); **H01L 31/0488** (2013.01 - CN EP KR US); **H02S 20/22** (2014.12 - KR); **H02S 30/10** (2014.12 - CN EP KR US); **F24S 2025/601** (2018.04 - EP US); **F24S 2080/012** (2018.04 - EP US); **F24S 2080/09** (2018.04 - EP US); **Y02B 10/10** (2013.01 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02E 10/40** (2013.01 - EP US); **Y02E 10/50** (2013.01 - EP US)

Citation (search report)
See references of WO 2016165833A1

Cited by
DE202023000986U1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 202015002866 U1 20150619; AU 2016248560 A1 20171207; AU 2016248560 B2 20210311; BR 212017022207 U2 20180214; CA 2983053 A1 20161020; CL 2017002631 A1 20180608; CN 108541347 A 20180914; EP 3284170 A1 20180221; IL 255071 A0 20171231; JP 2018518141 A 20180705; JP 2022088572 A 20220614; KR 20180026664 A 20180313; MA 41322 A1 20180928; MX 2017013362 A 20180801; PE 20171752 A1 20171212; US 11869995 B2 20240109; US 2018233611 A1 20180816; WO 2016165833 A1 20161020

DOCDB simple family (application)
DE 202015002866 U 20150417; AU 2016248560 A 20160416; BR 212017022207 U 20160416; CA 2983053 A 20160416; CL 2017002631 A 20171017; CN 201680023666 A 20160416; EP 16735990 A 20160416; EP 2016000626 W 20160416; IL 25507117 A 20171016; JP 2018505525 A 20160416; JP 2022056925 A 20220330; KR 20177033140 A 20160416; MA 41322 A 20160416; MX 2017013362 A 20160416; PE 2017002286 A 20160416; US 201615566923 A 20160416