

Title (en)  
SOLAR PANEL WITH INTEGRATED ILLUMINATION ARRANGEMENT, AND SYSTEM FOR A SOLAR PANEL WITH SUCH AN ARRANGEMENT

Title (de)  
SOLARPANEEL MIT INTEGRIERTER BELEUCHTUNGSANORDNUNG UND SYSTEM FÜR EIN SOLARPANEEL MIT SOLCH EINER ANORDNUNG

Title (fr)  
Panneau solaire à agencement d'éclairage intégré, et système pour panneau solaire comportant un tel agencement

Publication  
**EP 3342038 A4 20190227 (EN)**

Application  
**EP 16839700 A 20160823**

Priority  
• SE 1551097 A 20150825  
• SE 2016050784 W 20160823

Abstract (en)  
[origin: WO2017034457A1] The present invention relates to a solar panel with integrated illumination arrangement, comprising -a substrate (11), a plurality of solar cells (12) on said substrate (11) and a translucent front glass (13), -a light source (20) arranged to emit light into the translucent front glass (13) in a direction with an angle to a normal (N) of the front glass (13), wherein at least a portion (15) of said front glass (13) being arranged to redirect at least a portion (15) of the light from the light source (20) in a direction with an angle of less than 90° to the normal (N) of the front glass (13). The invention also relates to an illumination system comprising a solar panel (10).

IPC 8 full level  
**H02S 40/20** (2014.01); **F21S 9/03** (2006.01); **F21V 8/00** (2006.01); **H01L 31/0236** (2006.01); **F21Y 103/10** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP SE)  
**F21S 9/037** (2013.01 - EP SE); **G02B 6/004** (2013.01 - EP); **G02B 6/006** (2013.01 - EP); **H01L 31/0236** (2013.01 - EP); **H01L 31/02366** (2013.01 - EP SE); **H01L 31/048** (2013.01 - EP); **H02S 30/10** (2014.12 - EP); **H02S 40/20** (2014.12 - EP SE); **F21V 33/006** (2013.01 - SE); **F21Y 2103/10** (2016.07 - EP); **F21Y 2105/00** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP); **Y02E 10/50** (2013.01 - EP)

Citation (search report)  
• [X1] US 2004040228 A1 20040304 - EMDE THOMAS [DE], et al  
• [X1] JP 2013134967 A 20130708 - HAYAMIZU DENKI KOGYO KK, et al  
• [X1] JP 2009048983 A 20090305 - SOLARCAP INFINITY INC  
• [X1] KR 20120062429 A 20120614 - LG ELECTRONICS INC [KR]  
• [X1] WO 2011114262 A2 20110922 - KONINKL PHILIPS ELECTRONICS NV [NL], et al  
• See references of WO 2017034457A1

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)  
**WO 2017034457 A1 20170302**; CN 108028624 A 20180511; EP 3342038 A1 20180704; EP 3342038 A4 20190227; SE 1551097 A1 20170226; SE 539132 C2 20170411

DOCDB simple family (application)  
**SE 2016050784 W 20160823**; CN 201680049462 A 20160823; EP 16839700 A 20160823; SE 1551097 A 20150825