

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

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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
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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

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