

Title (en)
LIGHTING DEVICE AND METHOD FOR PROVIDING LIGHT

Title (de)
BELEUCHTUNGSVORRICHTUNG UND LICHTAUSGABEVERFAHREN

Title (fr)
DISPOSITIF D'ÉCLAIRAGE ET PROCÉDÉ DE PRODUCTION DE LUMIÈRE

Publication
EP 2875278 A4 20150923 (EN)

Application
EP 13819617 A 20130722

Priority

- US 201261673902 P 20120720
- US 201213563117 A 20120731
- JP 2013004451 W 20130722

Abstract (en)
[origin: WO2014013745A1] A lighting device includes a transparent optical cavity having an exit surface including a specularly reflective material arranged to reflect light into the cavity, the exit surface having a plurality of apertures formed therein, a base surface including a specularly reflective material arranged to reflect light into the cavity, and at least one light receiving surface arranged relative to the base surface and configured to receive light from a light source. The plurality of apertures are arranged to maximize at least one of uniformity, angular distribution, efficiency or luminous intensity of light exiting the exit surface, and a distribution of light received at the light receiving surface is altered by at least one of a combination of the exit surface and the base surface, or the light receiving surface.

IPC 8 full level
F21S 2/00 (2006.01); **F21V 11/14** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
F21V 7/0066 (2013.01 - EP US); **F21V 11/14** (2013.01 - EP); **G02B 6/0096** (2013.01 - EP); **F21V 7/0033** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US); **G02B 6/005** (2013.01 - EP); **G02B 6/0061** (2013.01 - EP)

Citation (search report)

- [XDI] US 7494246 B2 20090224 - HARBERS GERARD [US], et al
- [A] WO 2011059100 A1 20110519 - OPTO DESIGN INC [JP], et al
- [A] US 2011227507 A1 20110922 - SALM MARKUS [DE]
- [A] EP 2163807 A1 20100317 - OPTO DESIGN INC [JP]
- [A] GB 2358512 A 20010725 - SCREEN TECHNOLOGY LTD [GB]
- [A] DE 10302563 A1 20040729 - KARL JUNGBECKER GMBH & CO [DE]
- See references of WO 2014013745A1

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)
WO 2014013745 A1 20140123; EP 2875278 A1 20150527; EP 2875278 A4 20150923; JP 2015521780 A 20150730

DOCDB simple family (application)
JP 2013004451 W 20130722; EP 13819617 A 20130722; JP 2014561602 A 20130722