

Title (en)
LIGHTING DEVICES TO REDUCE GLARE FROM LIGHT EMITTING DIODES (LEDS)

Title (de)
BELEUCHTUNGSVORRICHTUNGEN ZUR VERRINGERUNG DER BLENDWIRKUNG VON LEUCHTDIODEN (LEDS)

Title (fr)
DISPOSITIFS D'ÉCLAIRAGE DESTINÉS À RÉDUIRE L'ÉBLOUISSEMENT PROVOQUÉ PAR DES DIODES ÉLECTROLUMINESCENTES (DEL)

Publication
EP 3317582 A4 20190227 (EN)

Application
EP 16814781 A 20160620

Priority

- MY PI2015702099 A 20150620
- MY 2016000034 W 20160620

Abstract (en)
[origin: WO2016209068A2] A lighting device for reducing glare from light emitting diodes (LED) includes at least one LED light source including an optical axis, a housing encompassing the LED light source for capturing light emitted from the LED light source during operation of the lighting device, a first surface positioned within said housing in front of the LED light source for receiving light from the LED based lighting device, and a second surface positioned within the housing lateral to the first surface for receiving light from the first surface, and an output surface for receiving light from said second surface. Particularly, the LED light source operates without any reflective coating.

IPC 8 full level
F21V 7/00 (2006.01); **F21V 5/04** (2006.01); **F21V 7/04** (2006.01); **G02B 19/00** (2006.01)

CPC (source: EP US)
F21V 5/007 (2013.01 - EP US); **F21V 5/04** (2013.01 - EP US); **F21V 7/0091** (2013.01 - EP); **G02B 19/0028** (2013.01 - EP); **G02B 19/0061** (2013.01 - EP); **F21Y 2105/16** (2016.07 - EP); **F21Y 2115/10** (2016.07 - EP)

Citation (search report)

- [X] WO 2014169511 A1 20141023 - WANG HAIJUN [CN]
- [X] JP 2011222380 A 20111104 - ENPLAS CORP
- [X] WO 9909349 A1 19990225 - DECOMA INT INC [CA], et al
- [X] US 2005286251 A1 20051229 - SMITH TODD J [US]
- [X] DE 102013226181 A1 20150618 - ZUMTOBEL LIGHTING GMBH [AT]
- [X] DE 102008061716 A1 20100617 - BAYERISCHE MOTOREN WERKE AG [DE]
- [X] EP 2869106 A1 20150506 - LIN WANJIONG [CN]
- [X] US 2013163258 A1 20130627 - TANG TE LUNG [TW]
- See references of WO 2016209068A2

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 2016209068 A2 20161229; WO 2016209068 A3 20170209; EP 3317582 A2 20180509; EP 3317582 A4 20190227; MY 193363 A 20221006

DOCDB simple family (application)
MY 2016000034 W 20160620; EP 16814781 A 20160620; MY PI2015702099 A 20150620