Title (en)

Light for rectangular surfaces

Title (de)

Licht für rechteckige Oberflächen

Title (fr)

Lumière pour surfaces rectangulaires

Publication

EP 2628998 A3 20150325 (EN)

Application

EP 13153168 A 20130130

Priority

ES 201230252 A 20120220

Abstract (en)

[origin: EP2628998A2] The light for rectangular surfaces comprises a plurality of light emitting diodes (1) arranged in a row, including each one of said light emitting diodes (1) its corresponding optics (3, 4) and characterized in that some of said light emitting diodes (1) comprise asymmetric optics (3) and the remaining of said light emitting diodes (1) comprise extensive asymmetric optics (4). It allows for optimising the quantity of light emitting diodes for rectangular spaces, because the majority of light is incident on the shelf or site to be illuminated and has low losses, which is a differences in respect of currently known light using not very asymmetric optics, which causes an intensive illumination or a large loss of light if they are further apart from the surface to be illuminated.

IPC 8 full level

A47F 3/00 (2006.01); **F21S 4/00** (2006.01); **F21V 5/08** (2006.01); F21Y 101/02 (2006.01); F21Y 103/00 (2006.01)

CPC (source: EP ES US)

F21S 4/20 (2016.01 - ES); **F21S 4/28** (2016.01 - EP ES); **F21V 5/04** (2013.01 - EP US); **F21V 5/08** (2013.01 - EP ES US); A47B 2220/0077 (2013.01 - EP); F21Y 2101/00 (2013.01 - ES); F21Y 2103/10 (2016.07 - EP ES US); F21Y 2107/00 (2016.07 - EP US); F21Y 2115/10 (2016.07 - EP ES US)

Citation (search report)

- [XI] EP 2378337 A2 20111019 - ENPLAS CORP [JP]
- [XI] EP 2343474 A1 20110713 - KHATOD OPTOELECTRONIC SRL [IT]
- [XI] WO 2009094819 A1 20090806 - SHE JIE [CN]
- [A] US 2011063844 A1 20110317 - SWAFFORD JR JOHN WESLEY [US], et al

Cited by

EP3063465A4

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)

EP 2628998 A2 20130821; **EP 2628998 A3 20150325**; BR 102013003933 A2 20150714; CN 103256496 A 20130821; CN 103256496 B 20151223; ES 2420556 A2 20130823; ES 2420556 B1 20140929; ES 2420556 R1 20131212; MX 2013002002 A 20130826

DOCDB simple family (application)

EP 13153168 A 20130130; BR 102013003933 A 20130220; CN 201310053153 A 20130218; ES 201230252 A 20120220; MX 2013002002 A 20130220