

Title (en)

OPTICAL SYSTEM AND ILLUMINATOR FOR DIRECT AND INDIRECT ILLUMINATION

Title (de)

OPTISCHES SYSTEM UND LEUCHTE FÜR DIREKTE UND INDIREKTE BELEUCHTUNG

Title (fr)

SYSTÈME OPTIQUE ET LAMPE POUR ÉCLAIRAGE DIRECT OU INDIRECT

Publication

**EP 2619503 B1 20160629 (DE)**

Application

**EP 11761335 A 20110920**

Priority

- DE 202010008598 U 20100921
- EP 2011066279 W 20110920

Abstract (en)

[origin: WO2012038399A1] An optical system for producing simultaneous light emission in a first solid angle range (r1) around a first direction (R1) and in a second solid angle range (r2) around a second direction (R2) that is 180° opposite to the first direction, more particularly provided for an illuminator for producing light emission into the first solid angle range (r1) for direct illumination and for further light emission into the second solid angle range (r2) for indirect illumination, has a light source (2) for producing a light and an optical element (4) for deflecting a first part of the light into the first solid angle range (r1) and for deflecting a second part of the light into the second solid angle range (r2).

IPC 8 full level

**F21V 14/02** (2006.01); **F21V 7/00** (2006.01)

CPC (source: EP US)

**F21V 7/0016** (2013.01 - EP); **F21V 14/02** (2013.01 - EP US); **F21S 8/06** (2013.01 - EP); **F21Y 2103/30** (2016.07 - EP)

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)

**DE 202010008598 U1 20111228**; EP 2619503 A1 20130731; EP 2619503 B1 20160629; WO 2012038399 A1 20120329

DOCDB simple family (application)

**DE 202010008598 U 20100921**; EP 11761335 A 20110920; EP 2011066279 W 20110920