

Title (en)

LED LAMP FOR ILLUMINATING SPECIFIC SURFACES

Title (de)

LED-LEUCHTE ZUR AUSLEUCHTUNG VON SPEZIFISCHEN FLÄCHEN

Title (fr)

LAMPE À LED POUR L'ÉCLAIRAGE DE SURFACES SPÉCIFIQUES

Publication

**EP 2707651 A2 20140319 (DE)**

Application

**EP 12748152 A 20120510**

Priority

- DE 102011101353 A 20110510
- DE 102011101354 A 20110510
- DE 2012000482 W 20120510

Abstract (en)

[origin: WO2012152257A2] The invention relates to an LED lamp and to at least one associated system of such lamps for illuminating internal and external surfaces, in particular industrial facilities and surfaces, with improved lighting efficiency. The radiation-source LEDs, which are constructed as a 3-chip LED, and the adjacent chips are arranged rotated relative to one another in such a way that the asymmetrical emission of a 3-chip LED is balanced thereby. Aspherical individual lenses or individual lenses comprising a biconical surface are preferably used as optical elements.

IPC 8 full level

**F21V 5/00** (2015.01); **F21K 99/00** (2016.01); **G02B 19/00** (2006.01); **G02B 27/09** (2006.01); **H01L 25/075** (2006.01); **H01L 33/58** (2010.01); **F21Y 105/00** (2016.01); **F21Y 113/00** (2016.01)

CPC (source: EP US)

**F21K 9/60** (2016.07 - EP US); **F21V 5/007** (2013.01 - EP US); **G02B 19/0014** (2013.01 - EP US); **G02B 19/0066** (2013.01 - EP US); **G02B 27/0927** (2013.01 - EP US); **H01L 25/0753** (2013.01 - EP US); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2105/12** (2016.07 - EP US); **F21Y 2113/17** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US); **H01L 33/58** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Citation (search report)

See references of WO 2012152257A2

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 2012152257 A2 20121115**; **WO 2012152257 A3 20130103**; CN 103620297 A 20140305; DE 102012010096 A1 20121129; DE 202012009066 U1 20121112; DE 202012009068 U1 20121115; EP 2707651 A2 20140319; US 2014218912 A1 20140807

DOCDB simple family (application)

**DE 2012000482 W 20120510**; CN 201280022259 A 20120510; DE 102012010096 A 20120510; DE 202012009066 U 20120510; DE 202012009068 U 20120510; EP 12748152 A 20120510; US 201214117216 A 20120510