

Title (en)  
OPTICAL UNIT FOR LED LIGHT SOURCE

Title (de)  
OPTIK FÜR LED-LICHTQUELLE

Title (fr)  
OPTIQUE POUR SOURCE LUMINEUSE DEL

Publication  
**EP 2956711 A1 20151223 (DE)**

Application  
**EP 14705336 A 20140218**

Priority  
• DE 102013202563 A 20130218  
• EP 2014053086 W 20140218

Abstract (en)  
[origin: WO2014125115A1] An optical unit (20) for influencing the light emission of an LED light source (150) comprises a lens body (1), which has a light-injecting surface facing the LED light source (150) and a light-emitting surface (10) opposite the light-injecting surface. A jacket surface (8) of the lens body (1) causes total internal reflection at least for some of the light rays entering via the light-injecting surface, and the light-emitting surface (10) is divided into at least two separate emission regions (101, 102, 103) which are formed in such a way that beams emitted by means of said emission regions (101, 102, 103) each illuminate a substantially identical region of a surface (200) to be illuminated that is arranged in front of the optical unit (20).

IPC 8 full level  
**F21V 5/04** (2006.01); **F21V 7/00** (2006.01); **G02B 19/00** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)  
**F21V 5/04** (2013.01 - EP US); **F21V 7/0091** (2013.01 - EP); **F21V 13/04** (2013.01 - EP); **G02B 19/0028** (2013.01 - EP); **G02B 19/0061** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)  
See references of WO 2014125115A1

Citation (examination)  
• WO 2011076214 A1 20110630 - MARTIN PROFESSIONAL AS [DK], et al  
• CN 201145210 Y 20081105 - HESHAN LIDE ELECT IND CO LTD [CN]

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)  
**DE 102013202563 A1 20140821**; EP 2956711 A1 20151223; WO 2014125115 A1 20140821

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**DE 102013202563 A 20130218**; EP 14705336 A 20140218; EP 2014053086 W 20140218