

Title (en)

METHOD FOR PRODUCING A LIGHT-RADIATING SURFACE AND A LIGHTING DEVICE FOR IMPLEMENTING THE METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER LICHTAUSSTRAHLENDEN OBERFLÄCHE UND BELEUCHTUNGSVORRICHTUNG ZUR UMSETZUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE FORMATION D'UNE SURFACE ÉMETTRICE DE LUMIÈRE ET DISPOSITIF D'ÉCLAIRAGE METTANT EN UVRE CE PROCÉDÉ

Publication

**EP 2532946 A1 20121212 (EN)**

Application

**EP 10845341 A 20100205**

Priority

RU 2010000045 W 20100205

Abstract (en)

A method for producing a light-radiating surface and a lighting device for implementing the method relate to lighting technology, specifically to LED lighting devices which are intended for producing external and internal lighting. The method for producing a light-radiating surface comprises operations for generating a stream of radiation; establishing the direction of flow of a light-reflecting structure; irradiating luminophore particles forming a first means for transforming the stream of radiation; and using a stream of light to irradiate a second means for transforming the stream of radiation, which means is produced from an optically transparent material and is equipped with scattering means. The lighting device comprises a radiation source in the blue and/or ultraviolet range of the spectrum; a first means for transforming the radiation, which means is equipped with luminophore particles; a light-reflecting structure which can change the radiation direction; and a second means for transforming the radiation, which means is equipped with light-scattering elements, is constructed from an optically transparent material and has a light-radiating surface.

IPC 8 full level

**F21S 8/00** (2006.01); **F21V 5/00** (2006.01); **F21V 9/16** (2006.01); **F21Y 101/02** (2006.01); **F21Y 105/00** (2006.01)

CPC (source: EP US)

**F21V 3/08** (2018.01 - EP US); **F21V 3/12** (2018.01 - EP US); **F21V 5/00** (2013.01 - EP US); **F21V 9/32** (2018.01 - EP US); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**EP 2532946 A1 20121212**; **EP 2532946 A4 20131002**; CN 103026128 A 20130403; RU 2012103407 A 20140310; RU 2510824 C1 20140410; WO 2011096837 A1 20110811

DOCDB simple family (application)

**EP 10845341 A 20100205**; CN 201080063216 A 20100205; RU 2010000045 W 20100205; RU 2012103407 A 20100205