

Title (en)
LIGHTING DEVICE FOR GENERATING WHITE LIGHT

Title (de)
LEUCHTVORRICHTUNG ZUR ERZEUGUNG VON WEISSLICHT

Title (fr)
DISPOSITIF LUMINEUX SERVANT À GÉNÉRER DE LA LUMIÈRE BLANCHE

Publication
EP 2986906 B1 20170614 (DE)

Application
EP 14720052 A 20140403

Priority
• DE 202013101431 U 20130404
• EP 2014056677 W 20140403

Abstract (en)
[origin: WO2014161927A1] The present invention describes a lighting device (1), which is suitable for generating mixed light, preferably even for generating white light. For this purpose, the lighting device (1) comprises a light source (2) for emitting excitation light of a specific wavelength (λ_2). At least two conversion elements (3, 4, 5) are arranged one behind the other in the lighting device (1) in the propagation direction of said excitation light. The conversion elements (3, 4, 5) are used to convert the excitation light. In particular, a first conversion element (3) is used to convert the wavelength (λ_2) of a part of the excitation light and a second conversion element (4) is used to convert the wavelength (λ_2) of a part of the excitation light not converted by said first conversion element (3). In order to suppress an interaction between the conversion elements (3, 4, 5), the first conversion element (3) and the second conversion element (4) are separated from each other by a first distance (7).

IPC 8 full level
F21K 9/64 (2016.01); **F21V 9/16** (2006.01); **F21V 9/40** (2018.01); **F21Y 101/00** (2016.01); **F21Y 103/10** (2016.01); **F21Y 105/00** (2016.01); **F21Y 115/10** (2016.01); **F21Y 115/15** (2016.01); **F21Y 115/30** (2016.01)

CPC (source: EP US)
F21K 9/64 (2016.07 - EP US); **F21V 9/32** (2018.01 - EP US); **F21V 9/38** (2018.01 - EP US); **F21V 13/08** (2013.01 - EP US); **F21Y 2103/10** (2016.07 - EP US); **F21Y 2105/00** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US); **F21Y 2115/15** (2016.07 - EP US); **F21Y 2115/30** (2016.07 - EP US)

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 202013101431 U1 20140709; EP 2986906 A1 20160224; EP 2986906 B1 20170614; US 2016053949 A1 20160225; WO 2014161927 A1 20141009

DOCDB simple family (application)
DE 202013101431 U 20130404; EP 14720052 A 20140403; EP 2014056677 W 20140403; US 201414782495 A 20140403