

Title (en)

Luminaire for mixing coloured lights, in particular of ww and tw light from LED elements, and LED module therefor

Title (de)

Leuchte zum Mischen von Lichtfarben, insbesondere von ww- und tw-Licht aus LED-Elementen, sowie LED-Modul hierfür

Title (fr)

Lampe pour le mélange de couleurs de lumière, notamment de lumière ww et tw à partir d'éléments à DEL, et module à DEL correspondant

Publication

EP 2690343 B1 20160106 (DE)

Application

EP 13177780 A 20130724

Priority

DE 102012213046 A 20120725

Abstract (en)

[origin: EP2690343A1] The lamp comprises a front circuit board (101) that includes multiple light sources (111) for generating a first light color with LED elements. A back circuit board (102) includes multiple light sources (112) for generating a second light color with LED elements. The LED elements of the back circuit board are positioned into recesses (106) formed in the front board according to the grid of the back board, to form a mixture of light colors.

IPC 1-7

F21Y 101/02

IPC 8 full level

F21K 99/00 (2016.01); **F21Y 105/00** (2016.01); **F21Y 113/00** (2016.01)

CPC (source: EP US)

F21K 9/00 (2013.01 - EP US); **F21K 9/90** (2013.01 - EP US); **F21Y 2105/10** (2016.08 - EP US); **F21Y 2105/12** (2016.08 - EP US); **F21Y 2107/60** (2016.08 - EP US); **F21Y 2113/13** (2016.08 - EP); **F21Y 2115/10** (2016.08 - EP US)

Citation (opposition)

Opponent : Trilux GmbH & Co. KG

- US 2010265711 A1 20101021 - LEE WEI-LONG [TW]
- DE 202010008480 U1 20111209 - ZUMTOBEL LIGHTING GMBH [AT]
- WO 2009022661 A1 20090219 - SHARP KK [JP], et al
- JP 2009044099 A 20090226 - SHARP KK
- WO 2008002073 A1 20080103 - SEOUL SEMICONDUCTOR CO LTD [KR], et al
- EP 1930947 A1 20080611 - SAMSUNG ELECTRONICS CO LTD [KR]
- WO 2008002073 A1 20080103 - SEOUL SEMICONDUCTOR CO LTD [KR], et al
- COMPUTERERZEUGTE ÜBERSETZUNG DER D4

Cited by

EP3415811A1; EP3543595A1; WO2017220847A1; US10451236B2; US10964678B2; US10883696B2

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

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DOCDB simple family (application)

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