

Title (en)
LED light for creating white light

Title (de)
LED-Leuchte zur Erzeugung von weißem Licht

Title (fr)
Lampe à DEL pour la production de lumière blanche

Publication
EP 2428723 A2 20120314 (DE)

Application
EP 11180278 A 20110906

Priority
DE 202010008480 U 20100908

Abstract (en)
The lamp has two sets of LEDs (2, 4) for emitting white light and colored light e.g. red, green or blue light, respectively. The two sets of LEDs form a light source of the lamp, where number of one of the sets of LEDs is greater than number of other set of LEDs. An optical element (10) i.e. light conductor, surrounds the latter set of LEDs such that the element optically influences the colored light. The two sets of LEDs are placed on two circuit boards (6, 8), respectively. A diffuser plate (12) is placed above the sets of LEDs, and a cover plate (14) is placed above the diffuser plate.

Abstract (de)
Eine LED-Leuchte zur Erzeugung eines weißen Lichts weist erste LEDs (2), die ein weißes Licht abstrahlen können, sowie zweite LEDs (4) auf, die ein farbiges Licht abstrahlen können, wobei die ersten LEDs (2) und die zweiten LEDs (4) eine Lichtquelle der LED-Leuchte bilden und die Anzahl der ersten LEDs (2) größer ist als die Anzahl der zweiten LEDs (4).

IPC 8 full level
F21S 4/00 (2006.01); **F21V 3/00** (2006.01); **F21V 5/04** (2006.01); **F21Y 101/02** (2006.01); **F21Y 103/00** (2006.01)

CPC (source: EP US)
F21S 4/20 (2016.01 - EP); **F21V 3/00** (2013.01 - EP); **F21V 5/008** (2013.01 - EP US); **F21V 5/04** (2013.01 - EP US);
F21V 13/02 (2013.01 - EP US); **F21V 13/04** (2013.01 - EP); **F21Y 2103/10** (2016.07 - EP US); **F21Y 2113/13** (2016.07 - EP);
F21Y 2115/10 (2016.07 - EP US)

Cited by
CN103939782A

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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 202010008480 U1 20111209; EP 2428723 A2 20120314; EP 2428723 A3 20121024; EP 2428723 B1 20150128

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DE 202010008480 U 20100908; EP 11180278 A 20110906