

Title (en)

MULTI-COLOR LIGHTING DEVICE, SYSTEM AND METHOD OF MANUFACTURE

Title (de)

MEHRFARBIGE BELEUCHTUNGSVORRICHTUNG, SYSTEM UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

DISPOSITIF D'ÉCLAIRAGE POLYCHROMATIQUE, SYSTÈME ET PROCÉDÉ DE FABRICATION

Publication

EP 4200558 A1 20230628 (EN)

Application

EP 21859274 A 20210823

Priority

- US 202016999577 A 20200821
- EP 20193561 A 20200831
- US 2021047162 W 20210823

Abstract (en)

[origin: WO2022040632A1] A lighting device includes an electrically insulating layer. The electrically insulating layer has a top surface and a metalized bottom surface and has a thermal conductivity of more than 10 W/(m*K). The lighting device also includes at least one first light emitting element on the top surface of the electrically insulating layer and configured to emit light of a first color and at least one second light emitting element on the top surface of the electrically insulating layer and configured to emit light of a second color. At least one electrical contact element is disposed at least in part on the top surface of the electrically insulating layer and is electrically coupled to at least one of the at least one first light emitting element or the at least one second light emitting element.

IPC 8 full level

F21V 19/00 (2006.01); **F21V 23/04** (2006.01); **F21Y 113/10** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP KR)

F21K 9/238 (2016.08 - KR); **F21S 41/141** (2018.01 - KR); **F21S 41/192** (2018.01 - KR); **F21S 41/24** (2018.01 - KR); **F21S 43/14** (2018.01 - KR); **H01L 25/0753** (2013.01 - EP KR); **H01L 33/54** (2013.01 - KR); **H01L 33/62** (2013.01 - EP KR); **H01L 33/641** (2013.01 - EP KR); **H01L 33/642** (2013.01 - KR); **H05B 33/14** (2013.01 - KR); **H05B 45/20** (2020.01 - KR); **F21S 41/141** (2018.01 - EP); **H01L 33/54** (2013.01 - EP); **H01L 33/642** (2013.01 - EP); **H05B 45/20** (2020.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022040632 A1 20220224; CN 116420046 A 20230711; EP 4200558 A1 20230628; JP 2023538102 A 20230906; KR 20230057399 A 20230428

DOCDB simple family (application)

US 2021047162 W 20210823; CN 202180071932 A 20210823; EP 21859274 A 20210823; JP 2023512296 A 20210823; KR 20237009705 A 20210823