

Title (en)

LED lamp with replaceable light unit

Title (de)

LED-Lampe mit austauschbarer Lichteinheit

Title (fr)

Lampe à diode dotée d'une unité d'éclairage remplaçable

Publication

EP 2413015 A1 20120201 (EN)

Application

EP 10170965 A 20100727

Priority

EP 10170965 A 20100727

Abstract (en)

An LED lamp with replaceable light unit according to the invention includes a heat dissipation housing (1), a metal connector (2), a driver circuit board (3), a light unit slice (4), a pad (5) and a shade (6). The heat dissipation housing (1) has an opening (12) at one end and a joint portion (13) at another end. The metal connector (2) is disposed to the joint portion (13) of the heat dissipation housing (1). The driver circuit board (3) disposed inside the heat dissipation housing (1) to electrically connect with metal connector (2). The light unit slice (4) and the pad (5) are disposed inside the opening (12), and the light unit slice (4) is electrically connected with the driver circuit board (3). The shade (6) is disposed inside the opening (12). The LED lamp with replaceable light unit can be realized by the assembly of the above elements according to the different preferred embodiment of the present invention.

IPC 8 full level

F21K 99/00 (2010.01); **F21V 17/12** (2006.01); **F21V 17/14** (2006.01); **F21V 23/06** (2006.01)

CPC (source: EP US)

F21K 9/23 (2016.07 - EP US); **F21K 9/238** (2016.07 - EP US); **F21V 3/02** (2013.01 - EP); **F21V 17/14** (2013.01 - EP US); **F21V 19/003** (2013.01 - EP); **F21V 19/04** (2013.01 - EP); **F21V 23/006** (2013.01 - EP US); **F21V 17/12** (2013.01 - EP); **F21V 23/002** (2013.01 - EP); **F21V 29/75** (2015.01 - EP); **F21V 29/767** (2015.01 - EP); **F21Y 2103/33** (2016.07 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)

- TW 354691 B
- TW 356067 B
- TW 356852 B
- TW 358239 B 19990511 - MITSUBISHI ELECTRIC CORP [JP]
- TW 371846 B
- TW 372427 B
- TW 372798 B
- TW 373439 B
- TW 374538 B

Citation (search report)

- [A] US 2009237940 A1 20090924 - WU CHING-HUEI [TW], et al
- [A] US 2009244899 A1 20091001 - CHYN WEN-LONG [TW]
- [A] US 2008024067 A1 20080131 - ISHIBASHI KAZUO [JP]
- [A] AU 2008101029 A4 20090108 - CERAMATE TECHNICAL CO LTD
- [A] US 2009296402 A1 20091203 - CHANG KUN-JUNG [TW], et al
- [A] US 2010110691 A1 20100506 - HSU ZU-CHAO [TW], et al
- [A] US 2008298075 A1 20081204 - LIAO JUI-TSUNG [TW], et al
- [A] DE 29616794 U1 19961107 - GIERSIEPEN GIRA GMBH [DE]
- [A] EP 1811227 A1 20070725 - BJB GMBH & CO KG [DE]

Cited by

CN107532793A; EP2757317A1; CN104214732A; CN113028371A; CN109185720A; CN112146022A; US9303851B2; WO2016070367A1; WO2016040675A1; US9942992B2; US10292277B2; WO2013182659A1; WO2017133474A1

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2413015 A1 20120201; EP 2413015 B1 20150701

DOCDB simple family (application)

EP 10170965 A 20100727