

Title (en)
LED lamp and illumination device

Title (de)
LED-Lampe und Beleuchtungsvorrichtung

Title (fr)
Lampe à DEL et dispositif d'éclairage

Publication
EP 2549171 A2 20130123 (EN)

Application
EP 11189469 A 20111117

Priority
CN 201120257135 U 20110720

Abstract (en)
The present invention relates to the field of illumination and provides a LED lamp and an illumination device. The LED lamp includes a LED light source 1 and a power apparatus 2 supplying for the LED light source 1, wherein the LED lamp further includes a thermally conductive lamp housing 3, a thermally conductive reflective cup 4 within the lamp housing and a thermally conductive base 5 under the reflective cup. The LED light source 1 is mounted on the base which is integrally molded with the reflective cup 4 or the lamp housing 3. In the present invention a thermally conductive base 5 is added under the reflective cup 4, and the LED light source 1 is directly mounted on the base 5. All of the base 5, the reflective cup 4 and the lamp housing 3 are thermally conductive, and the produced heat may be timely and directly transferred to the reflective cup 4 and/or the lamp housing 3 by the base 5, which greatly increases the heat dissipation area and effectively improves the performance of the heat dissipation. The heat can be dissipated quickly and efficiently without increasing the complexity of the lamp, thereby improving the utilization efficiency of the original structure of the lamp and having higher practicability.

IPC 8 full level
F21K 99/00 (2010.01); **F21V 19/00** (2006.01); **F21V 29/00** (2006.01); **F21V 7/00** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
F21K 9/233 (2016.07 - EP US); **F21V 29/505** (2015.01 - US); **F21V 29/507** (2015.01 - US); **F21V 7/00** (2013.01 - EP); **F21V 23/002** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by
CN105650567A; CN104791683A; CN105674149A; CN108253351A; WO2015087116A1

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

DOCDB simple family (publication)
EP 2549171 A2 20130123; **EP 2549171 A3 20130410**; CN 202176934 U 20120328

DOCDB simple family (application)
EP 11189469 A 20111117; CN 201120257135 U 20110720