

Title (en)
High power led lamp

Title (de)
Hochleistungs-LED-Lampe

Title (fr)
Lampe à DEL haute puissance

Publication
EP 2177812 A1 20100421 (EN)

Application
EP 09163795 A 20090625

Priority
CN 200820110078 U 20080819

Abstract (en)
This invention discloses a kind of high power LED lamp that consists of lampshade, high power LED light source and its driving circuit, heat sink, lamp holder and the bearing base. The LED light source is fixed on the heat sink, its two poles are electrically connected with the corresponding control terminals of the driving circuit board; the upper part of the bearing base supports the heat sink unit, the lower part connects with the lamp holder; the above mentioned LED light source consists of a high power LED which is integrated by a set of multi-chip modules. The LED light source is either hooded with the heat sink under the lampshade together or the LED light source hooded under the lampshade independently. The invention high power Led lamp is environment protective and energy-saving with long performance life. Adopting new type of structural design can increase the radiation brightness efficiently. The heat-sinking and anti-vibration capability is also greatly improved with even radiation and higher brightness.

IPC 8 full level
F21K 99/00 (2010.01)

CPC (source: EP US)
F21K 9/232 (2016.07 - EP US); **F21K 9/238** (2016.07 - EP US); **F21V 29/773** (2015.01 - EP US); **F21W 2121/00** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)
US 2006198147 A1 20060907 - GE SHICHAO [CN]

Citation (search report)
• [XY] US 2006198147 A1 20060907 - GE SHICHAO [CN]
• [XY] US 2006092640 A1 20060504 - LI CHIA MAO [TW]
• [XY] WO 2004100213 A2 20041118 - GELCORE LLC [US], et al
• [X] JP 2005166578 A 20050623 - HAMAI ELECTRIC LAMP
• [X] US 2003137838 A1 20030724 - RIZKIN ALEXANDER [US], et al
• [Y] EP 1945007 A1 20080716 - SCHREDER [BE]

Cited by
EP2450615A1; US10340424B2; US9951938B2; US9841175B2; US10139095B2; US8227961B2; US8552626B1; US8779653B2

Designated contracting state (EPC)
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 TR

DOCDB simple family (publication)
EP 2177812 A1 20100421; CN 201246616 Y 20090527; JP 3153356 U 20090903

DOCDB simple family (application)
EP 09163795 A 20090625; CN 200820110078 U 20080819; JP 2009004203 U 20090619