

Title (en)
Light emitting diode lamp device

Title (de)
Lichtemittierende Diodenlampenvorrichtung

Title (fr)
Dispositif de lampe à diode électroluminescente

Publication
EP 2677231 A1 20131225 (EN)

Application
EP 13172678 A 20130619

Priority
TW 101122525 A 20120622

Abstract (en)
A light emitting diode (LED) lamp device (100) includes a lamp holder (200) including a power module (210), an LED module (310) and a shield (400, 402-405). The LED module (310), disposed on the lamp holder (200), is electrically connected to the power module (210). The shield (400, 402-405), disposed on the lamp holder (200), covers the LED module (310). The material of the shield (400, 402-405) is solid. The shield (400, 402-405) has a top portion (410), a lateral portion (420), an accommodating space (470), and an inner rough surface (430) and an outer surface (440) opposite to each other. The composition of the shield (400, 402-405) includes a light diffusing powder. The lateral portion (420) is connected to the lamp holder (200). The thickness of the top portion (410) is greater than that of the lateral portion (420). The thickness of the shield (400, 402-405) is substantially and gradually increased from the lateral portion (420) towards the top portion (410). The LED module (310) is located in the accommodating space (470), and the inner rough surface (430) faces the accommodating space (470).

IPC 8 full level
F21K 99/00 (2010.01); **F21V 3/04** (2006.01); **F21V 5/00** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
F21K 9/232 (2016.07 - EP US); **F21K 9/60** (2016.07 - EP US); **F21V 3/02** (2013.01 - EP); **F21V 3/049** (2013.01 - EP US); **F21V 5/002** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
• [Y] US 2012134161 A1 20120531 - KAWAMURA NOBUO [JP], et al
• [Y] US 2012092852 A1 20120419 - DOAN TRUNG TRI [TW], et al
• [A] US 2012038260 A1 20120216 - LU YING-CHIEH [TW], et al
• [A] US 2011103054 A1 20110505 - CHANG SHAO-HAN [TW], et al
• [IP] CN 202511042 U 20121031 - SUZHOU GLORY GREEN LIGHTING CO LTD
• [A] US 2011031871 A1 20110210 - LAI CHIH-MING [TW], et al
• [A] US 2012014116 A1 20120119 - HU WEN-SUNG [TW]
• [A] US 2012155072 A1 20120621 - CHANG SHAO-HAN [TW]

Cited by
CN104864298A; CN108826227A; CN106287323A; CN109882771A; CN113432056A; EP3832197A4; US11036036B2; US11879600B2; WO2017072406A1; WO2014064576A1; WO2015135697A1

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 2677231 A1 20131225; JP 2014007157 A 20140116; TW 201400759 A 20140101; TW I506228 B 20151101

DOCDB simple family (application)
EP 13172678 A 20130619; JP 2013129232 A 20130620; TW 101122525 A 20120622