

Title (en)  
360-degree angle LED illumination device

Title (de)  
360-Grad-LED-Beleuchtungsanordnung

Title (fr)  
Dispositif d'éclairage à DEL à 360 degrés

Publication  
**EP 2325547 A1 20110525 (EN)**

Application  
**EP 09174470 A 20091029**

Priority  
EP 09174470 A 20091029

Abstract (en)  
A 360-degree angle LED (light-emitting diode) illumination device (1) comprises a copper base plate (10), a plurality of LED chips (12), and a flexible PCB circuit layer (16). The copper base plate is electroplated with a layer of silver thereon. The plurality of LED chips is provided on the peripheries of the copper base plate. The flexible PCB circuit layer is provided on the peripheries of the copper base plate and electrically connected with the LED chips for controlling the LED chips. Accordingly, it is able to provide 360-degree angle illumination range and to improve the thermal conductivity and heat dissipation capability in order to prolong effectively the lifetime of the LED chips in use.

IPC 8 full level  
**F21S 8/00** (2006.01); **F21V 29/00** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)  
**F21K 9/00** (2013.01 - EP US); **F21V 29/70** (2015.01 - EP US); **F21V 29/89** (2015.01 - US); **F21K 9/20** (2016.07 - EP US);  
**F21W 2111/00** (2013.01 - EP); **F21Y 2107/30** (2016.07 - EP US); **F21Y 2107/60** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)  
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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 SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2325547 A1 20110525**

DOCDB simple family (application)  
**EP 09174470 A 20091029**