

Title (en)  
Heat dissipation enhanced LED lamp

Title (de)  
LED-Lampe mit Wärmeableitung

Title (fr)  
Lampe DEL améliorée à dissipation de chaleur

Publication  
**EP 2249078 B1 20150429 (EN)**

Application  
**EP 10159411 A 20100408**

Priority  
TW 98115441 A 20090508

Abstract (en)  
[origin: EP2249078A1] A LED lamp which could directly replace an ordinary tungsten, halogen, or electricity-saving light bulb includes a filament, a lamp base (10) and a thermally conductive electric insulator (36). The filament includes at least one AC LED device (20), and the thermally conductive electric insulator is filled in a cavity (18) of the lamp base to mechanically contact with the filament and an electrode (12) of the lamp base. When the AC LED device is powered on, the thermally conductive electric insulator provides a thermal channel to transfer heat from the filament to the electrode for heat dissipation enhancement. The LED lamp can be directly inserted into an ordinary bulb socket that is generally used in lighting fixtures, without having to modify the system of the lighting fixtures or use an additional adapter.

IPC 8 full level  
**F21V 29/00** (2015.01); **F21K 99/00** (2010.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)  
**F21K 9/232** (2016.07 - EP US); **F21V 29/70** (2015.01 - EP US); **F21V 29/80** (2015.01 - EP); **F21V 29/85** (2015.01 - EP); **F21V 3/02** (2013.01 - EP); **F21V 3/049** (2013.01 - EP); **F21V 3/10** (2018.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by  
GB2490755A; US10158057B2; US9202996B2; WO2015131417A1; WO2024040763A1

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

DOCDB simple family (publication)  
**EP 2249078 A1 20101110**; **EP 2249078 B1 20150429**; TW 201041426 A 20101116; TW I507633 B 20151111

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