

Title (en)

Combination led lamp and heat sink structure

Title (de)

Kombination aus LED Lampe und Kühlkörperstruktur

Title (fr)

Combinaison d'une lampe LED et système de refroidissement

Publication

**EP 2738456 A1 20140604 (EN)**

Application

**EP 12194528 A 20121128**

Priority

EP 12194528 A 20121128

Abstract (en)

Combination of a LED lamp and a heat sink structure including a heat sink (10) formed by bending or stamping a metal sheet member into shape to provide a plurality of upright walls (11) and mounting holes (13), a circuit board (20) carrying a LED or LEDs (21) at the front side and having a plurality of through holes (22), a plurality of metal connection members (30) mounted in the mounting holes (13) and the through holes (22) to fixedly connect the heat sink (10) and the circuit board (20) together, and a lampshade (40) surrounding the circuit board (20) to let the heat sink (10) be exposed to the outside.

IPC 8 full level

**F21K 99/00** (2016.01); **F21V 29/77** (2015.01); **F21V 29/89** (2015.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)

**F21V 17/101** (2013.01 - EP); **F21V 29/773** (2015.01 - EP); **F21V 29/89** (2015.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

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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

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