

Title (en)

Lighting device with thermal coupling element made of thermally conductive plastic

Title (de)

Leuchte mit thermischem Koppelement aus wärmeleitendem Kunststoff

Title (fr)

Lampe avec élément de couplage thermique à base de plastique conducteur de chaleur

Publication

EP 2535642 B1 20151028 (DE)

Application

EP 12172129 A 20120615

Priority

DE 102011077668 A 20110616

Abstract (en)

[origin: EP2535642A2] The lamp (1) has multiple light emitting diodes (LEDs) (16) arranged on a board in a hermetically sealed plastic housing, and a coupling element (10) is made of a thermally conductive plastic that is compatible with the plastic of the housing. The thermal coupling element is installed in an area adjacent to a heat sink to dissipate the heat generated by the LEDs. A heat sink (12) is formed in communication with the outside air. The heat-conductive plastic material is provided as a thermoplastic material, which is comprised of thermally conductive filler.

IPC 8 full level

F21V 29/00 (2015.01); **F21W 131/10** (2006.01); **F21W 131/103** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

F21V 15/01 (2013.01 - EP US); **F21V 23/06** (2013.01 - EP); **F21V 29/507** (2015.01 - EP); **F21V 29/713** (2015.01 - EP); **F21V 29/87** (2015.01 - EP); **F21V 25/12** (2013.01 - EP); **F21W 2131/10** (2013.01 - EP); **F21W 2131/103** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by

US10488021B2; EP2857744A1; CN107002982A; JP2017538272A; SE2230404A1; EP2762771A3; US9869446B2; WO2015052049A1; WO2016106322A1

Designated contracting state (EPC)

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EP 2535642 A2 20121219; **EP 2535642 A3 20130814**; **EP 2535642 B1 20151028**; DE 102011077668 A1 20121220; DE 102011077668 B4 20180308; ES 2560961 T3 20160223

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