

Title (en)

Cooling element for a semiconductor light source of a motor vehicle lighting device

Title (de)

Kühlelement für eine Halbleiterlichtquelle einer Beleuchtungseinrichtung eines Kraftfahrzeugs

Title (fr)

Élément de refroidissement pour une source d'éclairage semi-conductrice d'un dispositif d'éclairage d'un véhicule automobile

Publication

**EP 2275738 B1 20141022 (DE)**

Application

**EP 10002907 A 20100319**

Priority

DE 102009033949 A 20090713

Abstract (en)

[origin: EP2275738A2] The element (32) has a cooling body (38) provided for delivering heat to environment, and a flange plate (36) for thermal coupling of a semiconductor light source and for fastening the element to a lighting device of a motor vehicle. A composite part is made from a cast part and an insertion part that is inserted into a casting mold during casting of the cast part, where the flange plate is provided as the cast part and the cooling body is provided as the insertion part. The cooling body is made from aluminum, copper or magnesium alloy. An independent claim is also included for a method for manufacturing a cooling element for a for semiconductor light source of a motor vehicle.

IPC 8 full level

**F21S 8/10** (2006.01); **F21V 29/00** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

**F21S 41/153** (2017.12 - EP US); **F21S 45/47** (2017.12 - EP US); **F21V 29/74** (2015.01 - EP); **F21V 29/75** (2015.01 - EP US);  
**F21V 29/763** (2015.01 - EP US); **F21V 29/80** (2015.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by

CN103162207A; CN105371119A; CN111570774A; AT518543A4; AT518543B1; EP2730837A1; FR2998034A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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