Title (en)

Light with passive cooling

Title (de)

Leuchte mit passiver Kühlung

Title (fr)

Lampe dotée d'un refroidissement passif

Publication

EP 2492590 A1 20120829 (DE)

Application

EP 11155452 A 20110222

Priority

EP 11155452 A 20110222

Abstract (en)

The light (10) has a lighting unit designed as a LED (100), and a cooling device comprising a hollow chamber (500) for forming free flow. The hollow chamber has an air inflow opening (710) and an air outflow opening (730), where the inflow opening lies below the outflow opening. An operating electronic circuit (210) is embedded in a sealing compound made from heat-insulating and electrically-insulated material e.g. polyurethane or epoxide, where the chamber has height of 10 cm. An electrically-operated ventilation device is arranged above the outflow opening of the chamber.

Abstract (de)

Die vorliegende Erfindung betrifft eine Leuchte (10) umfassend ein Leuchtmittel (100) sowie eine Kühleinrichtung, wobei das Leuchtmittel eine Licht emittierende Diode ist, und die Kühleinrichtung mindestens eine Hohlkammer (500) zur Ausbildung einer freien Strömung (700) aufweist.

IPC 8 full level

F21V 29/02 (2006.01); **F21V 29/00** (2006.01); F21K 99/00 (2010.01); F21Y 101/02 (2006.01)

CPC (source: EP US)

F21V 29/673 (2015.01 - EP); **F21V 29/773** (2015.01 - EP); **F21V 29/83** (2015.01 - US); F21K 9/00 (2013.01 - EP US); F21S 8/026 (2013.01 - EP); F21Y 2105/10 (2016.07 - EP US); F21Y 2115/10 (2016.07 - EP US)

Citation (search report)

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- [X] WO 2009091562 A2 20090723 - PREMYSLER PHILIP [US]
- [XI] US 2009296387 A1 20091203 - REISENAUER WILLIAM [US], et al
- [XI] EP 2251595 A2 20101117 - FAWOO TECHNOLOGY CO LTD [KR]

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

DOCDB simple family (publication)

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