

Title (en)  
A compact lighting module

Title (de)  
Kompaktes Beleuchtungsmodul

Title (fr)  
Module d'éclairage compact

Publication  
**EP 2180233 A1 20100428 (EN)**

Application  
**EP 08166838 A 20081016**

Priority  
EP 08166838 A 20081016

Abstract (en)  
A lighting module includes: - a printed circuit board (12) carrying a light source (10), such as e.g. a LED light source, as well as related drive circuitry, - a cup-shaped reflector (14) having a proximal end and a distal end, the proximal end coupled to the printed circuit board (12), so that light from the light source (10) is directed from the proximal end to the distal end of the reflector (14), wherein the reflector (14) is provided with heat dissipation formations (16), and - a cover (18) transparent to the light emitted from the light source (10) capable of including optical functions, the cover (18) coupled to the distal end of the reflector (14). The printed circuit board (12) and the reflector (14) are coupled via a quick-release coupling to permit easy replacement of the light source.

IPC 8 full level  
**F21K 99/00** (2010.01); **F21V 7/20** (2006.01); **F21V 29/505** (2015.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)  
**F21K 9/00** (2013.01 - EP US); **F21V 29/505** (2015.01 - EP); **F21V 29/773** (2015.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

- [XY] US 2006261359 A1 20061123 - HUANG HSIEN-JUNG [TW]
- [X] US 2007091597 A1 20070426 - WANG HSU C [TW], et al
- [X] US 2006043546 A1 20060302 - KRAUS ROBERT [DE]
- [X] WO 2008049381 A1 20080502 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE], et al
- [X] US 2006268555 A1 20061130 - KELLY WILLIAM M [IE]
- [Y] US 7349163 B2 20080325 - ANGELINI MARCO [IT], et al
- [A] AU 2005100101 A4 20050303 - MAITLAND IAN JAMES [AU]
- [A] US 2007195532 A1 20070823 - REISENAUER WILLIAM [US], et al
- [A] DE 202007003679 U1 20070516 - HONG KUAN TECHNOLOGY CO LTD [TW]

Cited by  
ITMI20100909A1; EA026247B1; GB2517064A; GB2517064B; US10222048B2; US9097416B2; US9951909B2; WO2012114241A3; WO2014098931A1; US9052093B2; US9651239B2; WO2012113532A1; WO2013132446A1

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Designated extension state (EPC)  
AL BA MK RS

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