

Title (en)  
Luminaire with integrated heatsink

Title (de)  
Leuchte mit integriertem Kühlkörper

Title (fr)  
Lampe avec corps de refroidissement intégré

Publication  
**EP 2647902 A3 20150722 (DE)**

Application  
**EP 13158581 A 20130311**

Priority  
DE 102012102973 A 20120405

Abstract (en)  
[origin: EP2647902A2] The lamp comprises two illuminating surfaces (2) on two opposite sides of a lamp housing (6) for direct lighting or indirect lighting. Light sources are provided in the form of light emitting diodes (LEDs) for generating the direct lighting and indirect lighting in thermal contact with the lamp housing. The lamp housing is formed as an integral body made of solid heat conductive material having a specific thermal conductivity. The lamp housing is formed of an aluminum die casting. The LEDs for direct or indirect lighting are arranged on circuit boards.

IPC 8 full level  
**F21S 6/00** (2006.01); **F21V 15/01** (2006.01); **F21V 29/00** (2015.01); **F21S 8/06** (2006.01); **F21V 7/00** (2006.01); **F21V 7/04** (2006.01); **F21V 21/116** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)  
**F21S 6/008** (2013.01 - EP US); **F21V 7/0016** (2013.01 - EP); **F21V 15/01** (2013.01 - EP); **F21V 29/507** (2015.01 - EP); **F21V 29/76** (2015.01 - EP); **F21V 29/89** (2015.01 - EP); **F21S 8/06** (2013.01 - EP); **F21V 7/0083** (2013.01 - EP); **F21V 7/048** (2013.01 - EP); **F21V 21/116** (2013.01 - EP); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)  
• [XYI] DE 202010017320 U1 20111206 - WALDMANN HERBERT GMBH & CO KG [DE]  
• [Y] DE 102009016256 A1 20101014 - VISHAY ELECTRONIC GMBH [DE]  
• [I] US 2011084593 A1 20110414 - CHANG SHAO-HAN [TW], et al  
• [I] DE 202007014667 U1 20090226 - ZUMTOBEL LIGHTING GMBH [AT]

Cited by  
EP3282173A4; EP3199864A1; AT16563U1; EP3211297A1; EP3249287A1

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)  
**EP 2647902 A2 20131009; EP 2647902 A3 20150722; EP 2647902 B1 20190508**; DE 102012102973 A1 20131010

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**EP 13158581 A 20130311**; DE 102012102973 A 20120405