

Title (en)
Light with passive cooling

Title (de)
Leuchte mit passiver Kühlung

Title (fr)
Lampe dotée d'un refroidissement passif

Publication
EP 2647909 B1 20161221 (DE)

Application
EP 13158310 A 20130308

Priority
DE 102012102977 A 20120405

Abstract (en)
[origin: EP2647909A1] The lamp has a lamp housing (2) and a transparent cover (3), which defines a hollow space filled with a fluid, particularly with air. An inner side of the lamp housing is curved, where the inner side partially limits the hollow space. A carrier (5) for an illuminant is received in the hollow space. The carrier is arranged within the hollow space such that heat is dissipated by convection of the fluid partially to the inside of the lamp housing. The carrier is formed as a carrier plate.

IPC 8 full level
F21V 29/00 (2015.01); **F21V 3/02** (2006.01); **F21V 3/04** (2006.01); **F21V 29/506** (2015.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)
F21V 3/02 (2013.01 - EP US); **F21V 29/506** (2015.01 - EP); **F21V 29/83** (2015.01 - EP); **F21V 31/03** (2013.01 - EP);
F21V 3/061 (2018.01 - EP US); **F21V 3/062** (2018.01 - EP US); **F21V 29/507** (2015.01 - EP); **F21V 29/89** (2015.01 - EP);
F21Y 2105/00 (2013.01 - EP US); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US); **F21Y 2115/15** (2016.07 - EP US)

Citation (examination)
• DE 202010004868 U1 20100729 - LIGHTDESIGN SOLUTIONS GMBH [DE]
• DE 102009031613 A1 20100415 - CHEN LIANG-TSAI [TW], et al

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

DOCDB simple family (publication)
DE 202012103751 U1 20121024; DE 102012102977 A1 20131010; EP 2647909 A1 20131009; EP 2647909 B1 20161221

DOCDB simple family (application)
DE 202012103751 U 20121001; DE 102012102977 A 20120405; EP 13158310 A 20130308