

Title (en)  
Light-emitting diode and lamp with at least one light-emitting diode module

Title (de)  
Leuchtdiodenmodul und Leuchte mit mindestens einem Leuchtdiodenmodul

Title (fr)  
Module de diode lumineuse et lampe dotée d'au moins un module de diode lumineuse

Publication  
**EP 2757309 A3 20141210 (DE)**

Application  
**EP 14152015 A 20140121**

Priority  
DE 202013100275 U 20130121

Abstract (en)  
[origin: EP2757309A2] The module (1) has a housing (2) comprising a housing section (20). A support plate (3) is accommodated within the housing, where multiple LEDs (4) are arranged on the support plate. A control unit actuates the LEDs and is accommodated within the housing. Two electrical connection cables are connectable to an electrical supply unit that is attached to the control unit. The housing section comprises an external thread (20'), where a lamp component e.g. glass, reflector, lamp fixture, decoration element and cooling body, is fastenable at the thread by a screw connection. The housing is made of ceramic material and comprises a base that is made of plastic material. An independent claim is also included for a lamp.

IPC 8 full level  
**F21K 99/00** (2010.01); **F21V 21/04** (2006.01); **F21S 8/02** (2006.01); **F21V 23/00** (2006.01); **F21V 29/00** (2006.01); **F21Y 101/02** (2006.01); **F21Y 105/00** (2006.01)

CPC (source: EP US)  
**F21K 9/20** (2016.07 - EP US); **F21V 17/12** (2013.01 - EP); **F21V 21/047** (2013.01 - EP US); **F21S 8/026** (2013.01 - EP); **F21S 8/04** (2013.01 - EP); **F21V 23/003** (2013.01 - EP US); **F21V 29/773** (2015.01 - EP); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

- [A] US 2012127739 A1 20120524 - TAKAHARA YUICHIRO [JP], et al
- [XAI] US 2009116251 A1 20090507 - HARBERS GERARD [US], et al
- [YA] US 2012106138 A1 20120503 - MANDY TERRY ROY [US], et al
- [YA] US 2011255292 A1 20111020 - SHEN MIN-DY [TW]
- [A] EP 1108612 A2 20010620 - AEROSPACE LIGHTING CORP [US]
- [A] US 2010053957 A1 20100304 - PAWELKO WOJCIECH [US], et al
- [A] US 2006091772 A1 20060504 - LI CHIA MAO [TW]

Cited by  
DE102015002774A1

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)  
**DE 202013100275 U1 20130201**; DE 202014010448 U1 20150803; EP 2757309 A2 20140723; EP 2757309 A3 20141210

DOCDB simple family (application)  
**DE 202013100275 U 20130121**; DE 202014010448 U 20140121; EP 14152015 A 20140121