

Title (en)
LIGHTING UNIT FOR VEHICLE HEADLIGHTS AND VEHICLE HEADLIGHT

Title (de)
BELEUCHTUNGSEINHEIT FÜR FAHRZEUGSCHEINWERFER UND FAHRZEUGSCHEINWERFER

Title (fr)
UNITÉ D ÉCLAIRAGE POUR PHARE DE VÉHICULE ET PHARE DE VÉHICULE

Publication
EP 2291594 B1 20130814 (DE)

Application
EP 09772310 A 20090616

Priority
• EP 2009057449 W 20090616
• DE 102008031256 A 20080702

Abstract (en)
[origin: WO2010000610A1] The invention relates to a lighting unit for vehicle headlights comprising a light emitting diode device (500), a housing (200) inside of which components of an operating circuit for operating the light emitting diode device (500) are disposed, wherein the housing (200) is made of electrically insulating material, electrical connections (222) for providing power supply to the lighting unit are embedded in the housing (200), the housing (200) comprises first adjustment means (213a, 213b, 213c) for aligning the lighting unit in a vehicle headlight, the light-emitting diode device (500) is disposed on a surface (112) of a heat sink (100), and the heat sink (100) forms a support surface (120a) for an external cooling system disposed at an external side of the housing (200).

IPC 8 full level
F21V 29/00 (2006.01); **F21V 29/15** (2015.01)

CPC (source: EP KR US)
F21K 9/00 (2013.01 - EP US); **F21S 41/12** (2017.12 - KR); **F21S 45/47** (2017.12 - KR); **F21S 45/48** (2017.12 - EP US);
F21V 29/70 (2015.01 - EP US); **F21V 29/89** (2015.01 - EP US); **F21S 41/141** (2017.12 - EP US); **F21S 41/19** (2017.12 - EP US);
F21S 41/192 (2017.12 - EP US); **F21S 45/47** (2017.12 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (examination)
• US 2006104077 A1 20060518 - OSHIO HIROHIKO [JP], et al
• JP 2008098185 A 20080424 - KOITO MFG CO LTD

Cited by
EP2863106A1

Designated contracting state (EPC)
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 SE SI SK TR

DOCDB simple family (publication)
DE 102008031256 A1 20100107; CN 102084180 A 20110601; CN 102084180 B 20140205; EP 2291594 A1 20110309;
EP 2291594 B1 20130814; JP 2011526412 A 20111006; JP 5409782 B2 20140205; KR 101594943 B1 20160218; KR 20110028537 A 20110318;
US 2011103076 A1 20110505; US 8231254 B2 20120731; WO 2010000610 A1 20100107

DOCDB simple family (application)
DE 102008031256 A 20080702; CN 200980126077 A 20090616; EP 09772310 A 20090616; EP 2009057449 W 20090616;
JP 2011515307 A 20090616; KR 20117002896 A 20090616; US 200913002410 A 20090616