

Title (en)

LED module for vehicle headlamps, and vehicle headlamp

Title (de)

Leuchtdioden-Modul für Fahrzeugscheinwerfer und Fahrzeugscheinwerfer

Title (fr)

Module DEL pour phares de véhicule, et phare de véhicule

Publication

EP 1500868 B1 20180502 (DE)

Application

EP 04013157 A 20040603

Priority

DE 10333836 A 20030724

Abstract (en)

[origin: EP1500868A2] The light-emitting diode module (1) has a carrier (10) for the light-emitting diodes (21,22,23), which is provided with at least one light deflector (311-332), for deflecting the light provided by the light-emitting diodes in a given direction. The light-emitting diodes can be mounted on a mantle surface (11) of the carrier which is asymmetric to its longitudinal axis (A-A), together with a number of longitudinally spaced light deflectors. An independent claim for an automobile head lamp is also included.

IPC 8 full level

B60Q 1/26 (2006.01); **F21S 8/10** (2006.01); **F21K 99/00** (2010.01); **F21V 7/00** (2006.01); **F21V 17/00** (2006.01); **F21W 101/10** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

F21S 41/148 (2017.12 - EP US); **F21S 41/151** (2017.12 - EP US); **F21S 41/192** (2017.12 - EP US); **F21S 41/141** (2017.12 - EP US); **F21W 2107/10** (2017.12 - EP US); **F21W 2111/00** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Cited by

DE102005042358B3; DE102010002118A1; WO2013182973A1; WO2008122924A1; US10018310B2; US10415762B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1500868 A2 20050126; **EP 1500868 A3 20130904**; **EP 1500868 B1 20180502**; CA 2475528 A1 20050124; DE 10333836 A1 20050303; JP 2005044807 A 20050217; US 2005018429 A1 20050127; US 6991354 B2 20060131

DOCDB simple family (application)

EP 04013157 A 20040603; CA 2475528 A 20040722; DE 10333836 A 20030724; JP 2004213520 A 20040721; US 89021904 A 20040714