

Title (en)
LED LIGHT-SOURCE MODULE FOR AN LED MOTOR VEHICLE HEADLIGHT

Title (de)
LED-LICHTQUELLENMODUL FÜR EINEN LED-KRAFTFAHRZEUGSCHEINWERFER

Title (fr)
MODULE DE SOURCES LUMINEUSES À DEL POUR UN PROJECTEUR DE VÉHICULE AUTOMOBILE À DEL

Publication
EP 2742281 A1 20140618 (DE)

Application
EP 12750982 A 20120716

Priority
• AT 11402011 A 20110808
• AT 2012050106 W 20120716

Abstract (en)
[origin: WO2013020156A1] The invention relates to an LED light-source module (M1 - M4, M1' - M4') for an LED motor vehicle headlight (SW1, SWr), particularly for an LED motor vehicle headlight (SW1, SWr) designed to produce a dynamic light distribution. Said LED light-source module (M1 - M4, M1' - M4') has at least one LED light-source (LEQ) consisting of at least one light-emitting diode (LED1, LED2), and this at least one light-emitting diode (LED1, LED2) of said at least one LED light-source (LEQ) couples light into an associated primary optical element (P1 - P4), the incoupled light again being emitted, at least partially, from a light-emitting surface (L1 - L4) of said primary optical element (P1 - P4). The LED light-source module (M1 - M4, M1' - M4') has a secondary optic (S1, S2, S3, S4) which - when the headlight (SW) is installed in a vehicle - maps the light emitted from the at least one light-emitting surface (L1 - L4) of the at least one primary optical element (P1 - P4) into a region that lies in front of the vehicle, in the form of a light pattern. According to the invention, an aperture arrangement (BAO) is provided between the at least one light-emitting surface (L1 - L4) of the at least one primary optical element (P1 - P4) and the secondary optic (S1 - S4), which aperture arrangement (BAO) has at least one optically-effective aperture edge (BK1, BK2) arranged such that, and/or extending such that, unwanted distortions appearing in an upper and/or lower region of the light pattern are at least partially masked in said light pattern.

IPC 8 full level
F21S 8/10 (2006.01); **F21S 8/12** (2006.01)

CPC (source: EP US)
F21S 41/143 (2017.12 - EP US); **F21S 41/151** (2017.12 - EP US); **F21S 41/24** (2017.12 - EP US); **F21S 41/25** (2017.12 - US); **F21S 41/26** (2017.12 - EP US); **F21S 41/265** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP US)

Citation (search report)
See references of WO 2013020156A1

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)
WO 2013020156 A1 20130214; AT 511760 A1 20130215; AT 511760 B1 20131215; BR 112014000956 A2 20170221; BR 112014000956 A8 20180403; CN 103732981 A 20140416; CN 103732981 B 20160907; EP 2742281 A1 20140618; EP 2742281 B1 20160210; JP 2014524115 A 20140918; JP 5768993 B2 20150826; MX 2014001565 A 20140915; US 2014204602 A1 20140724; US 9243771 B2 20160126

DOCDB simple family (application)
AT 2012050106 W 20120716; AT 11402011 A 20110808; BR 112014000956 A 20120716; CN 201280039097 A 20120716; EP 12750982 A 20120716; JP 2014519342 A 20120716; MX 2014001565 A 20120716; US 201214237710 A 20120716