

Title (en)

LIGHT MODULE FOR HEADLAMPS, IN PARTICULAR FOR RAIL-BORNE VEHICLES, LIGHT-GUIDING ELEMENTS FOR SUCH A LIGHT MODULE AND HEADLAMP WITH SUCH A LIGHT MODULE

Title (de)

LICHTMODUL FÜR SCHEINWERFER, INSBESONDERE VON SCHIENENFAHRZEUGEN, LICHTLEITKÖRPER FÜR EIN SOLCHES LICHTMODUL UND SCHEINWERFER MIT EINEM SOLCHEN LICHTMODUL

Title (fr)

MODULE OPTIQUE POUR PROJECTEURS, EN PARTICULIER DE VÉHICULES FERROVIAIRES, GUIDE DE LUMIÈRE POUR UN TEL MODULE OPTIQUE ET PROJECTEUR COMPORTANT UN TEL MODULE OPTIQUE

Publication

EP 2805197 A1 20141126 (DE)

Application

EP 13704543 A 20130115

Priority

- DE 102012100397 A 20120118
- DE 2013100010 W 20130115

Abstract (en)

[origin: WO2013107445A1] The invention relates to a light module for headlamps, in particular for rail-borne vehicles, for generating a specific light distribution with a light-dark boundary, wherein the light module is characterized by particularly good vibration resistance. For this, the light module has a light source, a primary optical element for collimating the light originating from the light source, a shield for masking out some of the light collimated by the primary optical element and a secondary optical element for projecting light collimated by the primary optical element which is not masked out by the shield, wherein the primary optical element comprises a light-guiding body (14) based on the principle of total internal reflection and having a light entry surface (40) and a light exit surface, wherein the light exit surface comprises at least two surface elements (24, 44) emitting in different directions, and wherein the light-guiding body (14) has at least two integrally formed supporting bodies (26) for fastening, in vibration-resistant fashion, the light-guiding body (14) relative to the light source.

IPC 8 full level

G02B 7/02 (2006.01); **F21S 8/10** (2006.01); **F21S 8/12** (2006.01); **F21V 17/00** (2006.01); **G02B 17/08** (2006.01)

CPC (source: EP US)

F21S 41/265 (2017.12 - EP); **F21S 41/27** (2017.12 - EP); **G02B 19/0028** (2013.01 - EP US); **G02B 19/0066** (2013.01 - EP); **F21S 41/29** (2017.12 - EP); **G02B 7/022** (2013.01 - EP)

Citation (search report)

See references of WO 2013107445A1

Citation (examination)

- WO 2006097067 A1 20060921 - OSRAM OPTO SEMICONDUCTORS GMBH [DE], et al
- DE 102010005806 A1 20110728 - HELLA KGAA HUECK & CO [DE]
- EP 2327927 A1 20110601 - ERCO GMBH [DE]
- DE 102004056252 A1 20060504 - OSRAM OPTO SEMICONDUCTORS GMBH [DE]

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 2013107445 A1 20130725; DE 112013000611 A5 20141009; EP 2805197 A1 20141126

DOCDB simple family (application)

DE 2013100010 W 20130115; DE 112013000611 T 20130115; EP 13704543 A 20130115