

Title (en)  
Optical module for a motor vehicle lighting device

Title (de)  
Optisches Modul für eine Kfz-Beleuchtungseinrichtung

Title (fr)  
Module optique pour dispositif d'éclairage automobile

Publication  
**EP 1746340 A3 20071107 (FR)**

Application  
**EP 06291099 A 20060703**

Priority  
FR 0507785 A 20050721

Abstract (en)  
[origin: EP1746340A2] In an optical module for an automobile light which emits beam(s) with a cut-off portion, comprising a light source within a reflector (R), a dioptric element (L) in front of the reflector and a screen (C) between the source and element to intercept some emitted light rays, an additional reflective optical element (EO), between the source and the screen and near the screen, redirects light rays emitted towards the screen above the screen edge. An optical module (specifically an elliptical module) for an automobile light which emits beam(s) with a cut-off portion comprises a light source within a reflector (R), a dioptric element (L) (specifically a convergent lense) in front of the reflector and a screen (C) between the source and the dioptric element, having active position(s) in which some emitted light rays are intercepted to cut off part of the beam. The novel feature is that an additional optical element (EO) with reflective surface(s), located between the source and the screen and near the active edge of the screen, redirects light rays emitted in the direction of the screen above the active edge of the screen. An independent claim is included for an automobile headlight having at least one of the optical elements.

IPC 8 full level  
**F21V 11/16** (2006.01); **F21S 8/12** (2006.01); **F21V 7/00** (2006.01); **F21W 101/10** (2006.01); **F21W 107/10** (2018.01)

CPC (source: EP US)  
**F21S 41/321** (2017.12 - EP US); **F21S 41/337** (2017.12 - EP US); **F21S 41/365** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP US); **F21S 41/683** (2017.12 - EP US)

Citation (search report)

- [XY] US 4914747 A 19900403 - NINO NAOHI [JP]
- [X] EP 1357334 A1 20031029 - VALEO VISION [FR]
- [Y] EP 0624753 A2 19941117 - BOSCH GMBH ROBERT [DE]
- [X] EP 1193440 A1 20020403 - STANLEY ELECTRIC CO LTD [JP]
- [A] FR 2796705 A1 20010126 - KOITO MFG CO LTD [JP]
- [A] US 5938323 A 19990817 - MCMAHAN ROBERT T [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04 31 May 1995 (1995-05-31)

Cited by  
EP2006605A1; EP2006604A1; EP3505816A1; FR2964724A1; FR2917485A1; EP2381165A1; CN103119360A; CN103249992A; CN106885196A; FR2917484A1; FR2913094A1; EP1962015A1; US9347639B2; US9885454B2; WO2012013601A1; WO2012079104A1; EP1953039A2; US9121561B2; US9500337B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1746340 A2 20070124; EP 1746340 A3 20071107; EP 1746340 B1 20090729;** AT E438065 T1 20090815; DE 602006008074 D1 20090910; ES 2328622 T3 20091116; FR 2888916 A1 20070126; FR 2888916 B1 20070928; PL 1746340 T3 20091231; SI 1746340 T1 20091231; US 2007019430 A1 20070125; US 7722233 B2 20100525

DOCDB simple family (application)  
**EP 06291099 A 20060703;** AT 06291099 T 20060703; DE 602006008074 T 20060703; ES 06291099 T 20060703; FR 0507785 A 20050721; PL 06291099 T 20060703; SI 200630421 T 20060703; US 45854206 A 20060719