

Title (en)

Lighting and/or signalling device for an automobile

Title (de)

Vorrichtung zur Beleuchtung und/oder Signalisierung für Kraftfahrzeug

Title (fr)

Dispositif d'éclairage et/ou de signalisation pour véhicule automobile

Publication

EP 2295850 A1 20110316 (FR)

Application

EP 10175424 A 20100906

Priority

FR 0956287 A 20090914

Abstract (en)

The module (10) has an optical deviation element i.e. elliptical reflector (12), for admitting a focus (F1), and a support (20) for supporting the element and including a support face (61) located at a distance from the focus. An adapter (70) is supported against the support face, and a printed circuit board (80) is fixed to the adapter. An LED is fixed on the board that electrically powers the LED. The LED includes a photoemissive element (14) for emitting luminous rays towards the reflector. The adapter is positioned such that the photoemissive element is positioned near or on the focus. An independent claim is also included for a method for replacing an LED fixed on a printed circuit board by another LED fixed on another printed circuit board, in an optical module.

Abstract (fr)

Module optique (10) pour dispositif d'éclairage et/ou de signalisation pour véhicule automobile comprenant : - un premier élément de déviation optique (12) qui admet un foyer (F1), - un support (20) de cet élément de déviation optique (12) avec une surface d'appui (61) située à une distance (d) du foyer (F1), - un adaptateur (70) en appui contre ladite surface d'appui, - un circuit imprimé (80) fixé audit adaptateur, - au moins une DEL fixée sur ledit circuit imprimé, l'adaptateur étant configuré de manière à ce que l'élément photoémissif de la DEL soit positionné sensiblement sur le foyer F1.

IPC 8 full level

F21S 8/10 (2006.01); **F21V 19/00** (2006.01); **F21W 107/10** (2018.01)

CPC (source: EP US)

F21S 41/14 (2017.12 - EP US); **F21S 41/148** (2017.12 - EP US); **F21S 41/19** (2017.12 - EP); **F21S 41/192** (2017.12 - EP); **F21S 41/255** (2017.12 - EP); **F21S 41/321** (2017.12 - EP); **F21S 41/365** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP); **F21V 19/001** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)

FR 2839139 A1 20031031 - VALEO VISION [FR]

Citation (search report)

- [XY] US 2008055065 A1 20080306 - FELDMEIER DAVID CHARLES [US]
- [Y] US 2006215411 A1 20060928 - LIN CHIN-SUNG [TW]

Citation (examination)

- EP 1936582 A1 20080625 - LANGMATZ LIC GMBH [DE]
- US 5867469 A 19990202 - TANAKA KIYOSHI [JP], et al
- FR 2865524 A1 20050729 - KOITO MFG CO LTD [JP]
- JP 2005302603 A 20051027 - ICHIKOH INDUSTRIES LTD
- EP 2375142 A2 20111012 - ICHIKOH INDUSTRIES LTD [JP]
- US 2009191725 A1 20090730 - VOGT KARL-WILHELM [DE], et al
- EP 1967787 A1 20080910 - ICHIKOH INDUSTRIES LTD [JP]

Cited by

ES2527971A1; CN107076379A; FR3037128A1; EP3572720A1; ES2732764A1; WO2016066908A1; WO2015000894A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME RS

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