

Title (en)
Optical module for headlight of a motor vehicle

Title (de)
Optisches Modul für Kraftfahrzeugscheinwerfer

Title (fr)
Module optique pour projecteur de véhicule automobile

Publication
EP 2568210 A1 20130313 (FR)

Application
EP 12183376 A 20120906

Priority
FR 1157909 A 20110907

Abstract (en)
The module (5) has a movable cover (10) rotatably arranged to form a light beam in an occulted portion, where the occulted portion follows an object e.g. oncoming vehicle and following vehicle, of a road scene. The cover co-operates with a backlash removal spring (11). The spring is integrated into a gear motor sub-assembly rotating the cover. The cover comprises a pin serving as a pivot during the rotation of the cover, and the spring comprises whorls around the pin. An electrical motor (20) i.e. stepper motor, is arranged to cooperate with the cover to drive the cover in rotation.

Abstract (fr)
La présente invention se rapporte à un module optique (5) pour projecteur de véhicule automobile, comportant un cache mobile en rotation agencé pour former dans un faisceau lumineux au moins une portion occultée, notamment cette portion occultée pouvant suivre un objet de la scène routière, le cache mobile (10) coopérant avec un ressort (11) de rattrapage de jeu.

IPC 8 full level
F21S 8/12 (2006.01); **F21V 14/08** (2006.01)

CPC (source: EP US)
F21S 41/323 (2017.12 - EP); **F21S 41/365** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP); **F21S 41/695** (2017.12 - EP US);
F21W 2102/15 (2017.12 - EP)

Citation (applicant)
EP 2068071 A1 20090610 - VALEO VISION [FR]

Citation (search report)
• [X] EP 1867917 A1 20071219 - VALEO VISION [FR]
• [X] EP 1596127 A1 20051116 - VALEO VISION [FR]
• [X] DE 10356950 A1 20050630 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
• [YD] EP 2068071 A1 20090610 - VALEO VISION [FR]
• [Y] EP 1516782 A1 20050323 - SAIA BURGESS MURTEN AG [CH]

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US9909747B2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2568210 A1 20130313; CN 103906969 A 20140702; FR 2979595 A1 20130308; FR 2979595 B1 20160108; JP 2014529170 A 20141030;
JP 6261502 B2 20180117; WO 2013034680 A1 20130314

DOCDB simple family (application)
EP 12183376 A 20120906; CN 201280043573 A 20120907; EP 2012067498 W 20120907; FR 1157909 A 20110907; JP 2014528989 A 20120907