

Title (en)
Primary optical element, lighting module and headlight for motor vehicle

Title (de)
Optisches Hauptelement, Beleuchtungsmodul und Scheinwerfer für Kraftfahrzeug

Title (fr)
Élément optique primaire, module d'éclairage et projecteur pour véhicule automobile

Publication
EP 2743567 A1 20140618 (FR)

Application
EP 13196380 A 20131210

Priority
FR 1262043 A 20121214

Abstract (en)
The element has a set of light guiding units (3a-3d) connected at an output to a corrective part (4), where the corrective part includes half-sphere shape. The corrective part comprises an exit surface (41) having a shape of spherical dome. The light guiding units and the corrective part form an integral structure, and are manufactured from same material such as polymer. The exit surface is centered approximately on an outlet side of one of the light guiding units. A front face of each light guiding unit is provided with a convex portion. Independent claims are also included for the following: (1) an optical assembly (2) a lighting module.

Abstract (fr)
L'élément optique primaire comprend une pluralité de guides de lumière (3a-3d), reliés en sortie à une partie correctrice (4) comportant une face de sortie (41) au moins en partie en forme de dôme sensiblement sphérique, les guides de lumière (3a-3d) et la partie correctrice (4) formant une structure monobloc. Le module d'éclairage comprend une pluralité de sources de lumière (1a-1d), l'élément optique primaire (2) et un élément optique de projection associé (5). Les sorties des guides (3a-3d) sont positionnées dans un plan focal objet de la lentille de projection (5). Le projecteur intègre un ou plusieurs modules optiques.

IPC 8 full level
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CPC (source: EP US)
F21S 41/143 (2017.12 - EP US); **F21S 41/147** (2017.12 - EP US); **F21S 41/151** (2017.12 - EP US); **F21S 41/24** (2017.12 - EP); **F21S 41/255** (2017.12 - EP); **F21S 41/26** (2017.12 - EP); **F21S 41/663** (2017.12 - EP US)

Citation (applicant)
EP 2280215 A2 20110202 - ZIZALA LICHTSYSTEME GMBH [AT]

Citation (search report)
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• [X] EP 2306075 A2 20110406 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
• [A] WO 03034125 A1 20030424 - SIEMENS AG [DE], et al
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