

Title (en)

Improved lighting module for automotive vehicle

Title (de)

Verbesserter Beleuchtungsmodul für Kraftfahrzeuge

Title (fr)

Module d'éclairage perfectionné pour véhicule automobile

Publication

EP 2199662 B1 20160413 (FR)

Application

EP 09179737 A 20091217

Priority

FR 0807296 A 20081219

Abstract (en)

[origin: EP2199662A1] The module (1) has a light source (S) i.e. LED, placed in a concave reflector (2). A lens (3) is placed in front of the reflector and the source. The reflector is associated to a beam folder (4). A front edge (5) of the folder is formed by a flat curve with variable curvature, where a curvature in a point (M) is a continuous function of lateral coordinate (x) of the point. The reflector transforms a wave surface of the source into a wave surface restored to the curve. The lens provides an infinity image from the point for all rays contained in a plane perpendicular to the edge at given point.

IPC 8 full level

F21V 5/00 (2015.01); **F21S 8/12** (2006.01); **F21V 7/04** (2006.01); **F21V 11/16** (2006.01); **F21V 13/12** (2006.01); **F21W 101/10** (2006.01)

CPC (source: EP US)

F21S 41/148 (2017.12 - EP US); **F21S 41/26** (2017.12 - EP); **F21S 41/321** (2017.12 - EP); **F21S 41/365** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP); **F21V 7/04** (2013.01 - EP US); **F21V 13/12** (2013.01 - EP US)

Cited by

FR2979969A1; EP2420728A1; EP2674665A3; US9546767B2; WO2013037858A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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