

Title (en)

LIGHTING DEVICE FOR INSTALLATION IN A MOTOR VEHICLE

Title (de)

ZUM EINBAU IN EINEM KRAFTFAHRZEUG VORGESEHENE BELEUCHTUNGSEINRICHTUNG

Title (fr)

DISPOSITIF D'ÉCLAIRAGE PRÉVU POUR L'INTÉGRATION DANS UN VÉHICULE AUTOMOBILE

Publication

**EP 2492580 B1 20190116 (DE)**

Application

**EP 12152524 A 20120125**

Priority

DE 102011004569 A 20110223

Abstract (en)

[origin: EP2492580A2] The lighting device has a semiconductor light source (5) that emits light rays, a primary optics for collecting the portion of light beams, and a secondary optics (12) for imaging the portion of focused light beams in a light exit direction on a road ahead of vehicle to produce a desired light distribution. The primary and secondary optics are installed along vehicle alignment direction. The light beams are collected at an interface of an optical head (8) made of transparent material set with total reflective properties, based on total internal reflection and refraction.

IPC 8 full level

**F21S 41/141** (2018.01); **F21S 41/20** (2018.01); **F21S 41/24** (2018.01); **F21S 41/32** (2018.01); **F21S 41/365** (2018.01); **F21S 41/40** (2018.01); **F21W 102/10** (2018.01); **F21W 107/10** (2018.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)

**F21S 41/13** (2017.12 - EP); **F21S 41/148** (2017.12 - EP US); **F21S 41/151** (2017.12 - EP US); **F21S 41/24** (2017.12 - US); **F21S 41/285** (2017.12 - EP); **F21S 41/321** (2017.12 - EP); **F21S 41/322** (2017.12 - EP); **F21S 41/334** (2017.12 - EP); **F21S 41/365** (2017.12 - EP US); **F21S 41/37** (2017.12 - EP); **F21S 41/43** (2017.12 - EP); **F21S 41/663** (2017.12 - EP); **F21S 41/689** (2017.12 - EP US); **F21S 41/698** (2017.12 - EP); **F21W 2102/18** (2017.12 - EP)

Citation (examination)

EP 2119959 A1 20091118 - ICHIKOH INDUSTRIES LTD [JP]

Cited by

FR3118131A1; EP2789901A3; CN114207350A; US11466842B2; WO2020028582A1; WO2016188746A1; WO2022130595A1; US9528672B2; US10948148B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2492580 A2 20120829**; **EP 2492580 A3 20160120**; **EP 2492580 B1 20190116**; CN 102705765 A 20121003; CN 102705765 B 20161214; DE 102011004569 A1 20120823

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