

Title (en)
Optical device for an automobile

Title (de)
Optische Vorrichtung für ein Kraftfahrzeug

Title (fr)
Dispositif optique pour véhicule automobile

Publication
EP 2244007 B1 20170315 (FR)

Application
EP 10159333 A 20100408

Priority
FR 0952684 A 20090424

Abstract (en)
[origin: EP2244007A1] The device (1) has an ellipsoidal reflector (2) associated to a light source (3) e.g. LED, for forming a light beam. A rotary assembly (10) intercepts the light beam, and is rotationally driven between two lighting positions around a rotational axle (z) by a stepper motor. The assembly has fixed covers (4, 5) respectively provided with edges that are remote from each other by a predetermined angular gap. The assembly permits a progressive transition of lighting between the two lighting positions. A convex lens (6) is arranged on a path of the light beam intercepted by the rotary assembly.

IPC 8 full level
F21S 8/12 (2006.01); **F21V 14/08** (2006.01); **F21W 107/10** (2018.01)

CPC (source: EP US)
F21S 41/698 (2017.12 - EP US)

Citation (opposition)
Opponent : ZKW Group GmbH
• JP H0533402 U 19930430
• US 2005201117 A1 20050915 - SUGIMOTO ATSUSHI [JP], et al
• US 2007217194 A1 20070920 - LEE KYU-SUP [KR]
• JP H08106803 A 19960423 - KOITO MFG CO LTD
• EP 1806531 A1 20070711 - VALEO VISION [FR]
• WO 2009039882 A1 20090402 - HELLA KGAA HUECK & CO [DE], et al
• EP 0108915 A1 19840523 - WESTFAELISCHE METALL INDUSTRIE [DE]

Cited by
EP2597364A3; FR2975752A1; EP2434210A1; EP2546569A2; US9446707B2; EP2734415B1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
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EP 10159333 A 20100408; CN 201010166743 A 20100423; DE 10159333 T 20100408; DE 202010018335 U 20100408; DE 202010018336 U 20100408; DE 202010018337 U 20100408; DE 202010018458 U 20100408; EP 16156640 A 20100408; ES 10159333 T 20100408; FR 0952684 A 20090424; JP 2010099318 A 20100423; US 76619110 A 20100423