

Title (en)

Motor vehicle headlamp projector having a mirror and a conjugated deflection element, and a method of manufacturing the same

Title (de)

Kraftfahrzeugprojektor mit Spiegel und konjugiertem Umlenkelement und Verfahren zur Herstellung desselben

Title (fr)

Projecteur de véhicule automobile à miroir et élément de déviation conjugués, et procédé de fabrication de ceux-ci

Publication

**EP 1243846 B1 20091118 (FR)**

Application

**EP 02290714 A 20020321**

Priority

FR 0103906 A 20010321

Abstract (en)

[origin: EP1243846A1] The headlamp has an incandescent or discharge light source (10) at the focal point of a mirror (20) shaped to a particular profile ( $y=f_{20}(x)$ ). The reflected light is directed to a lens (30) which has a profiled ( $y=f_{30}(x)$ ) inner surface (31) and a flat outer surface (32). The mirror produces a cut in upper illumination and the lens gives horizontal spreading. It is proposed that the lens should be circular in appearance. Independent claims are also included for the following: Use of headlight adjacent to elliptic type headlight. Method for manufacturing mirror and lens

IPC 8 full level

**F21S 8/12** (2006.01); **F21V 7/00** (2006.01); **F21V 5/00** (2006.01); **F21V 7/04** (2006.01); **F21V 13/00** (2006.01); **F21V 13/04** (2006.01); **F21W 101/10** (2006.01); **F21Y 101/00** (2016.01)

CPC (source: EP US)

**F21S 41/28** (2017.12 - EP US); **F21V 7/04** (2013.01 - EP US); **F21V 13/04** (2013.01 - EP US)

Citation (examination)

- FR 2763666 A1 19981127 - VALEO VISION [FR]
- US 5440456 A 19950808 - BERTLING JOHANNES [DE], et al
- US 5204820 A 19930420 - STROBEL JOSEPH R [DE], et al
- DONOHUE R.J. ET AL: "Computer synthesized filament images from reflectors and through lens element for lamp design and evaluation", APPLIED OPTICS, vol. 14, no. 10, October 1975 (1975-10-01), pages 2384 - 2390, XP007901136

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FR2856773A1; EP1491816A1; EP2009347A1; FR2866411A1; FR2890721A1; EP1762776A1; EP2169297A1; US7503679B2; EP1832805A1; FR2898402A1; EP1400748A1; FR2844867A1; EP1715246A1; FR2884898A1; US7980742B2; EP2019256A1; US7121705B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1243846 A1 20020925**; **EP 1243846 B1 20091118**; AT E449284 T1 20091215; DE 60234399 D1 20091231; ES 2334108 T3 20100305; FR 2822550 A1 20020927; FR 2822550 B1 20030516; JP 2002298623 A 20021011; US 2002186570 A1 20021212; US 7524095 B2 20090428

DOCDB simple family (application)

**EP 02290714 A 20020321**; AT 02290714 T 20020321; DE 60234399 T 20020321; ES 02290714 T 20020321; FR 0103906 A 20010321; JP 2002080463 A 20020322; US 10363102 A 20020320