

Title (en)

Space saving infrared projection type motor vehicle headlamp

Title (de)

Raumsparender Infrarot-Scheinwerfer für Fahrzeuge nach dem Projektionsprinzip

Title (fr)

Projecteur elliptique de véhicule automobile à infrarouges et à encombrement réduit

Publication

EP 1139011 B1 20060920 (FR)

Application

EP 01400670 A 20010314

Priority

FR 0007001 A 20000531

Abstract (en)

[origin: EP1139011A1] The headlamp has between the reflector (100) and the lens (200) a filter (300) that is opaque to visible light and transparent to infra-red light. The filter is displaced between a position where it is clear of the visible light beam from the light source (110) and a position where most of the beam passes through the filter.

IPC 8 full level

F21S 8/10 (2006.01); **F21S 8/12** (2006.01); **F21V 5/00** (2006.01); **F21V 9/04** (2006.01); **F21V 14/08** (2006.01); **F21W 101/10** (2006.01); **F21Y 101/00** (2016.01)

CPC (source: EP US)

F21S 41/255 (2017.12 - EP US); **F21S 41/275** (2017.12 - EP US); **F21S 41/686** (2017.12 - EP US); **F21V 7/24** (2018.01 - EP US); **F21V 9/04** (2013.01 - EP US); **F21W 2102/00** (2017.12 - US)

Cited by

EP1726875A1; FR2886376A1; FR2966222A1; CN102537804A; CN105650568A; EP2442019A3; US7452116B2; EP1593549A2; US7295104B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1139011 A1 20011004; **EP 1139011 B1 20060920**; DE 60123151 D1 20061102; DE 60123151 T2 20070920; ES 2272426 T3 20070501; FR 2809797 A1 20011207; FR 2809797 B1 20020823; JP 2002008416 A 20020111; JP 4976620 B2 20120718; US 2001050344 A1 20011213; US 6897459 B2 20050524

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