

Title (en)  
Headlamp for vehicles

Title (de)  
Scheinwerfer für Fahrzeuge

Title (fr)  
Phare pour véhicules

Publication  
**EP 2381164 A3 20140101 (DE)**

Application  
**EP 11162031 A 20110412**

Priority  
AT 6612010 A 20100422

Abstract (en)  
[origin: EP2381164A2] The headlamp has a diaphragm shaft comprising a cover surface, which comprises a focal line for rotary positions. The cover surface of the diaphragm shaft comprises grooves (30-35) at a region of the focal line for dimmed light. The grooves run parallel to a rotation axis of the diaphragm shaft. The adjacent grooves are directly limited together in a rotation direction and/or a circumferential direction. The adjacent grooves are separated from each other by common point edges (40-45). The grooves completely penetrate a focal line section, which run in an inclined manner.

IPC 8 full level  
**F21V 11/16** (2006.01); **F21S 8/10** (2006.01); **F21V 14/08** (2006.01)

CPC (source: EP)  
**F21S 41/43** (2017.12); **F21S 41/698** (2017.12)

Citation (search report)

- [YD] US 2009154187 A1 20090618 - KIM JONG-UN [KR], et al
- [Y] FR 2363053 A1 19780324 - THORN ELECTRICAL IND LTD [GB]
- [A] EP 0937942 A2 19990825 - BOSCH GMBH ROBERT [DE]
- [A] EP 1584862 A1 20051012 - VALEO VISION [FR]
- [A] US 2008239742 A1 20081002 - NAKADA YUSUKE [JP], et al

Cited by  
EP2484958A3; JP2012195101A

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2381164 A2 20111026; EP 2381164 A3 20140101; EP 2381164 B1 20181010**; AT 509830 A1 20111115; AT 509830 B1 20120715; CN 102278685 A 20111214; CN 102278685 B 20140716

DOCDB simple family (application)  
**EP 11162031 A 20110412**; AT 6612010 A 20100422; CN 201110107856 A 20110422