

Title (en)
VEHICLE HEADLIGHT WITH LASER LIGHT SOURCE

Title (de)
FAHRZEUGSCHEINWERFER MIT LASERLICHTQUELLE

Title (fr)
PHARE DE VÉHICULE AVEC SOURCE LUMINEUSE À LASER

Publication
EP 2745042 B1 20160224 (DE)

Application
EP 13714533 A 20130228

Priority
• AT 500702012 A 20120312
• AT 2013050051 W 20130228

Abstract (en)
[origin: WO2013134804A1] The invention relates to a vehicle headlight (1) comprising at least one laser light source (2), at least one lamp element (3) that may be stimulated to emit visible light which can be irradiated by said laser light source (2), and at least one imaging optical element, for example a reflector (4) and/or a lens, wherein said laser light source (2) is arranged in front of said lamp element (3) viewed in the main beam direction (100) of the vehicle headlight (1) such that the light from said laser light source (2) radiates in the opposite direction to said main beam direction (100) of the vehicle headlight (1).

IPC 8 full level
F21S 8/10 (2006.01); **F21S 8/12** (2006.01); **F21V 19/00** (2006.01); **F21V 29/00** (2015.01)

CPC (source: AT EP US)
F21S 41/13 (2017.12 - AT); **F21S 41/147** (2017.12 - AT); **F21S 41/16** (2017.12 - EP US); **F21S 41/176** (2017.12 - EP US); **F21S 41/19** (2017.12 - EP US); **F21S 43/00** (2017.12 - AT); **F21S 45/10** (2017.12 - EP US); **F21S 45/43** (2017.12 - EP US); **F21S 45/49** (2017.12 - EP US); **F21S 45/60** (2017.12 - EP US); **F21S 45/70** (2017.12 - EP US); **F21S 41/147** (2017.12 - EP US); **F21S 41/24** (2017.12 - EP US)

Citation (opposition)
Opponent : Valeo Vision SAS
• EP 2461092 A2 20120606 - STANLEY ELECTRIC CO LTD [JP]
• EP 2461090 A2 20120606 - STANLEY ELECTRIC CO LTD [JP]
• JP 2004241142 A 20040826 - KOITO MFG CO LTD
• US 2005105301 A1 20050519 - TAKEDA HITOSHI [JP], et al
• US 2012051027 A1 20120301 - TAKAHASHI KOJI [JP], et al
• US 2011280039 A1 20111117 - KISHIMOTO KATSUHIKO [JP]
• WO 2012025141 A1 20120301 - OSRAM AG [DE], et al
• DE 102008008664 A1 20090910 - CONTINENTAL AUTOMOTIVE GMBH [DE]
• US 2011216550 A1 20110908 - KOIKE TERUO [JP], et al
• US 2009052189 A1 20090226 - KON SHUSAKU [JP]
• DE 102007016442 A1 20081009 - VOLKSWAGEN AG [DE]
• DE 102010062460 A1 20120606 - OSRAM AG [DE]
• WO 2012076294 A2 20120614 - OSRAM AG [DE], et al

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

DOCDB simple family (publication)
WO 2013134804 A1 20130919; AT 512591 A1 20130915; AT 512591 B1 20140615; BR 112014010269 A2 20170418; CN 104160208 A 20141119; CN 104160208 B 20170308; EP 2745042 A1 20140625; EP 2745042 B1 20160224; IN 1171MUN2014 A 20150703; JP 2015502628 A 20150122; JP 2016028397 A 20160225; JP 6103446 B2 20170329; JP 6176463 B2 20170809; MX 2014007019 A 20140722; US 2014321148 A1 20141030; US 9611994 B2 20170404

DOCDB simple family (application)
AT 2013050051 W 20130228; AT 500702012 A 20120312; BR 112014010269 A 20130228; CN 201380003563 A 20130228; EP 13714533 A 20130228; IN 1171MUN2014 A 20140611; JP 2014536063 A 20130228; JP 2015209269 A 20151023; MX 2014007019 A 20130228; US 201314353309 A 20130228