

Title (en)
LIGHT EMITTING UNIT FOR A PROJECTOR LAMP

Title (de)
LEUCHTEINHEIT FÜR EINEN SCHEINWERFER

Title (fr)
UNITÉ D'ÉCLAIRAGE POUR UN PROJECTEUR

Publication
EP 2786064 B1 20160420 (DE)

Application
EP 13795987 A 20131022

Priority
• AT 506082012 A 20121220
• AT 2013050205 W 20131022

Abstract (en)
[origin: WO2014094017A1] The invention relates to a light-emitting unit (1) for a projector lamp, in particular a motor vehicle headlamp, comprising a plurality of light sources (2), a light guidance unit (3) comprising a plurality of light guides (30) and a downstream projection lens (4), wherein each light guide (30) has in each case one light exit surface (30a), and wherein each light source (2) couples light precisely into a light guide (30) assigned thereto, and wherein adjacent light guides (30) are separated from one another by separating walls (31, 32). The invention provides for at least one shield element (5) to be arranged between the light guide unit (3) and the projection lens (4), which shield element (5) has apertures (50) which are separated from one another by aperture separating walls (51, 52), wherein the shield element (5) is arranged in such a way that in each case one aperture (50) is connected upstream of a light exit surface (30a), and wherein the apertures (50) correspond substantially in terms of shape and size to the light exit surfaces (30a) in each case assigned thereto, and wherein, on those surfaces (5a) of the at least one shield element (5) which are remote from the light guide unit (3), at least some of the aperture separating walls (51, 52) have a smaller wall thickness (b) than those separating walls (31, 32) of the light guide unit (3) which are assigned to the respective aperture separating walls (51, 52).

IPC 8 full level
F21S 8/10 (2006.01); **B60Q 1/00** (2006.01)

CPC (source: AT EP US)
F21S 41/143 (2017.12 - EP US); **F21S 41/153** (2017.12 - EP US); **F21S 41/24** (2017.12 - EP US); **F21S 41/29** (2017.12 - EP US); **F21S 41/321** (2017.12 - US); **F21S 41/322** (2017.12 - EP US); **F21S 41/36** (2017.12 - EP US); **F21S 41/43** (2017.12 - AT EP US); **F21S 41/663** (2017.12 - EP US); **F21S 41/143** (2017.12 - AT); **F21S 41/25** (2017.12 - EP US); **F21S 41/322** (2017.12 - AT); **F21V 7/0083** (2013.01 - AT); **F21W 2102/00** (2017.12 - US); **F21W 2102/19** (2017.12 - EP); **F21W 2102/20** (2017.12 - EP); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (opposition)
Opponent : Valeo Vision
• EP 2101107 A2 20090916 - KOITO MFG CO LTD [JP]
• EP 2500628 A2 20120919 - STANLEY ELECTRIC CO LTD [JP]
• EP 2280215 A2 20110202 - ZIZALA LICHTSYSTEME GMBH [AT]
• EP 2306073 A2 20110406 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
• EP 2085688 A2 20090805 - KOITO MFG CO LTD [JP]
• EP 2037167 A2 20090318 - KOITO MFG CO LTD [JP]

Cited by
US10816156B2

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 2014094017 A1 20140626; AT 513738 A1 20140715; AT 513738 B1 20140715; BR 112014019566 A2 20170620; BR 112014019566 A8 20170711; CN 104105921 A 20141015; CN 104105921 B 20170405; EP 2786064 A1 20141008; EP 2786064 B1 20160420; IN 1559MUN2014 A 20150508; JP 2015510674 A 20150409; JP 6061156 B2 20170118; MX 2014008827 A 20141024; MX 343647 B 20161114; US 2015085523 A1 20150326; US 9157597 B2 20151013

DOCDB simple family (application)
AT 2013050205 W 20131022; AT 506082012 A 20121220; BR 112014019566 A 20131022; CN 201380010174 A 20131022; EP 13795987 A 20131022; IN 1559MUN2014 A 20140801; JP 2014556881 A 20131022; MX 2014008827 A 20131022; US 201314394327 A 20131022