

Title (en)
Light module

Title (de)
Lichtmodul

Title (fr)
Module d'éclairage

Publication
EP 2693109 A3 20150121 (DE)

Application
EP 13172652 A 20130619

Priority
DE 102012213842 A 20120803

Abstract (en)
[origin: EP2693109A2] The light module (10) has a lens device (18) for forming desired light distribution, where the lens device is exactly positioned in a desired spatial position by a positioning device. The positioning device has a dowel pin and a ball socket, where the dowel pin is engaged and guided in the ball socket for positioning the lens device. A fastening device has a fastening projection, fastening recess and a fastening unit. The fastening projection is engaged in the fastening recess and is fixed with the fastening unit for fastening the lens device. The dowel pin is extended along a guide direction.

IPC 8 full level
F21S 8/10 (2006.01); **F21V 17/00** (2006.01)

CPC (source: EP US)
F21S 41/29 (2017.12 - EP US); **F21S 41/143** (2017.12 - EP US); **F21S 41/153** (2017.12 - EP US)

Citation (search report)

- [X] EP 2428725 A2 20120314 - KOITO MFG CO LTD [JP]
- [A] DE 202011108359 U1 20120117 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
- [A] US 2004145821 A1 20040729 - HERGENHAN GUIDO [DE]
- [A] DE 102011003497 A1 20120802 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
- [A] DE 102005003213 A1 20050818 - KOITO MFG CO LTD [JP]
- [A] US 2012188782 A1 20120726 - SASAKI YOSHIHIRO [JP], et al

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EP3757450A1; CN110173669A; EP4224057A1; US11988352B2; US11435048B2; US11732857B2; WO2020182610A1; WO2020259994A1; WO2022242783A1

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 2693109 A2 20140205; EP 2693109 A3 20150121; EP 2693109 B1 20200902; CN 103574463 A 20140212; CN 103574463 B 20180327; DE 102012213842 A1 20140206

DOCDB simple family (application)
EP 13172652 A 20130619; CN 201310332219 A 20130801; DE 102012213842 A 20120803