

Title (en)
OPTICAL MODULE FOR MOTOR VEHICLE HEADLIGHT

Title (de)
OPTISCHES MODUL FÜR KRAFTFAHRZEUGSCHEINWERFER

Title (fr)
MODULE OPTIQUE POUR PROJECTEUR DE VÉHICULE

Publication
EP 3043107 A1 20160713 (FR)

Application
EP 16150244 A 20160105

Priority
FR 1550174 A 20150109

Abstract (en)
[origin: US2016201870A1] An optical module comprising a heat sink having one or more heat dissipating surfaces, a fan for sending air over the one or more heat dissipating surfaces, and a light source held by the heat sink. The main feature of an optical module according to the invention is that the fan is mounted on the heat sink by clipping.

Abstract (fr)
L'invention se rapporte à un module optique (1) comprenant un radiateur (8) muni d'une ou plusieurs surfaces dissipatrices de chaleur (13), un ventilateur (7) apte à envoyer de l'air sur la ou lesdites surfaces dissipatrices de chaleur (13), et une source lumineuse (2, 3) supportée par ledit radiateur (8). La principale caractéristique d'un module optique selon l'invention est que le ventilateur (7) est fixé au radiateur (8) par clippage.

IPC 8 full level
F21S 8/10 (2006.01); **F21W 107/10** (2018.01); **F21Y 115/10** (2016.01)

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F21S 41/141 (2017.12 - CN); **F21S 45/43** (2017.12 - CN EP US); **F21S 45/49** (2017.12 - CN EP US); **F21V 17/10** (2013.01 - CN); **F21V 17/16** (2013.01 - US); **F21V 29/67** (2015.01 - CN); **F21V 29/76** (2015.01 - CN); **F21V 29/89** (2015.01 - CN); **F21S 41/148** (2017.12 - EP US); **F21W 2102/00** (2017.12 - CN); **F21W 2107/10** (2017.12 - CN); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)
EP 2138759 A1 20091230 - KOITO MFG CO LTD [JP]

Citation (search report)
• [X] EP 2679883 A2 20140101 - ZIZALA LICHTSYSTEME GMBH [AT]
• [XP] WO 2015051887 A1 20150416 - DAIMLER AG [DE]

Cited by
EP3385605A1; FR3103537A1; CN108826218A; EP3671023A1; FR3063048A1; FR3100600A1; EP3357751A1; FR3062612A1; WO2020127134A1; US10752159B2; WO2021044090A1

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