

Title (en)

Lighting and/or signalling device including a heating element with a heat sink

Title (de)

Vorrichtung zur Beleuchtung und/oder Signalisierung, die mit einem Heizelement mit Energieumwandler ausgestattet ist

Title (fr)

Dispositif d'éclairage et/ou de signalisation comprenant un élément chauffant à dissipateur

Publication

EP 2503223 A3 20140507 (FR)

Application

EP 12160489 A 20120321

Priority

FR 1152520 A 20110325

Abstract (en)

[origin: EP2503223A2] The device (1) has a space (10) defined by a support (2) and a wall (7). The space receives a light source (3) i.e. LED, and a heating device (13) comprising a calorie source (14). The wall allows passage of light rays (11) coming from the light source. The heating device comprises a heat sink (4) integrated with the calorie source. The calorie source comprises an electrical insulator fixed on the heat sink. The heat sink is formed by a material i.e. metal, distinct from the support. A mask is installed in the space between the support and the wall.

IPC 8 full level

F21S 8/10 (2006.01); **F21S 8/12** (2006.01); **F21V 29/00** (2006.01)

CPC (source: EP US)

F21S 41/143 (2017.12 - EP US); **F21S 43/14** (2017.12 - EP); **F21S 45/60** (2017.12 - EP US)

Citation (search report)

- [X] EP 2014972 A1 20090114 - VALEO VISION [FR]
- [I] EP 1718127 A1 20061102 - ILLINOIS TOOL WORKS [US]
- [I] DE 10346270 A1 20040708 - ZIZALA LICHTSYSTEME GMBH WIESE [AT], et al
- [I] DE 10331835 A1 20050203 - VOLKSWAGEN AG [DE]

Cited by

WO2016060853A1

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 2503223 A2 20120926; **EP 2503223 A3 20140507**; FR 2973099 A1 20120928; FR 2973099 B1 20180427

DOCDB simple family (application)

EP 12160489 A 20120321; FR 1152520 A 20110325