

Title (en)
Light module unit

Title (de)
Leuchten-Moduleinheit

Title (fr)
Unité de module de lampes

Publication
EP 2275736 A3 20120801 (DE)

Application
EP 10006708 A 20100629

Priority
DE 202009009802 U 20090717

Abstract (en)
[origin: EP2275736A2] The unit (10) has a cover element (20) i.e. injection molded part, covering a base element (12) i.e. printed circuit board, and enabling optical detection of an LED (13), in a coverage region. A plate-shaped bottom element (18) i.e. heat sink, is arranged on a side of the base element, where the side lies opposite to the cover element. The base, the cover and the bottom elements comprise a surface area and are connected together as a unit. The cover element has a circumferential edge, so that the cover element has a cap shape. The cover element is made of transparent plastic.

IPC 8 full level
F21V 15/01 (2006.01); **F21V 21/088** (2006.01); **F21V 3/00** (2006.01); **F21V 17/16** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
F21V 3/00 (2013.01 - EP); **F21V 15/01** (2013.01 - EP US); **F21V 17/164** (2013.01 - EP); **F21V 21/088** (2013.01 - EP); **G09F 13/04** (2013.01 - EP); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

- [XY] EP 1398563 A1 20040317 - VALEO VISION [FR]
- [X] US 2008013329 A1 20080117 - TAKEDA HITOSHI [JP], et al
- [X] US 2001030866 A1 20011018 - HOCHSTEIN PETER A [US]
- [X] DE 19802923 A1 19990729 - HELLA KG HUECK & CO [DE]
- [Y] DE 10350266 A1 20050602 - VOLKSWAGEN AG [DE]

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
DE 202009009802 U1 20101125; DE 202010017947 U1 20130408; EP 2275736 A2 20110119; EP 2275736 A3 20120801

DOCDB simple family (application)
DE 202009009802 U 20090717; DE 202010017947 U 20100629; EP 10006708 A 20100629