

Title (en)
Modular emitter device and manufacturing method thereof

Title (de)
Modulares Emitterbauelement und sein Herstellungsverfahren

Title (fr)
Dispositif émetteur modulaire et son procédé de manufacture

Publication
EP 1443567 A2 20040804 (EN)

Application
EP 04001125 A 20040120

Priority
IT VI20030011 A 20030124

Abstract (en)
A modular emitter device that can be applied to lamps and similar products, comprising at least a source (2) emitting electromagnetic radiations provided with at least one LED and a lens associated to the same LED, support means (3) of the emitting source (2), an optical concentrator (8) for the emitting source (2), feeding means (7) of the emitting source (2) and is characterized in that the support means (3) comprise a covering element (6) making one piece with the optical concentrator (8). The emitting source (2) and the feeding means (7) are at least partially embedded inside the covering element (6) in order to make the device (1) substantially waterproof. The absence of electrical parts in direct contact with the outside makes the device substantially waterproof and allows using it in wet and humid environments or immersed into tanks of various kinds, such as swimming pools or aquaria.

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H01L 33/00

IPC 8 full level
F21K 9/00 (2016.01); **F21K 99/00** (2010.01); **F21V 31/04** (2006.01); **F21W 131/308** (2006.01); **F21W 131/401** (2006.01); **F21Y 101/00** (2016.01)

CPC (source: EP US)
F21K 9/00 (2013.01 - EP US); **F21V 31/04** (2013.01 - EP US); **F21W 2131/308** (2013.01 - EP); **F21W 2131/401** (2013.01 - EP);
F21Y 2115/10 (2016.07 - EP US)

Citation (applicant)
• WO 0227235 A1 20020404 - SUNCOR STAINLESS INC [US]
• US 2002089849 A1 20020711 - LAMKE ISIDORE I [US], et al

Cited by
ITPD20100370A1; EP1821030A1; EP2317205A1; WO2018009792A1; US8251538B2; EP3482422B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

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AL LT LV MK

DOCDB simple family (publication)
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