

Title (en)
Three zone reflector

Title (de)
Drei-Zonen Reflektor

Title (fr)
Réflecteur tri-zone

Publication
EP 2360427 A3 20120822 (DE)

Application
EP 11154291 A 20110214

Priority
DE 102010007774 A 20100212

Abstract (en)
[origin: EP2360427A2] The module has a tubular reflector including two apertures (6) and a reflector surface that is formed at an inner side of the tubular reflector. A set of LEDs is arranged inside the reflector at a region of a constriction (2) formed at the center of the reflector along a longitudinal direction. The reflector is expanded in the shape of a funnel from the constriction to the apertures such that 10 to 50 percentages of total light beams emitted by the LEDs is discharged as radiation beam through the apertures without prior reflection at the reflector.

IPC 8 full level
F21V 7/00 (2006.01); **F21V 7/04** (2006.01); **F21V 7/09** (2006.01); **F21W 131/10** (2006.01); **F21W 131/103** (2006.01); **F21W 131/407** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
F21V 7/048 (2013.01 - EP); **F21V 7/09** (2013.01 - EP US); **F21S 2/005** (2013.01 - EP); **F21V 7/0025** (2013.01 - EP); **F21W 2131/103** (2013.01 - EP); **F21Y 2105/00** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US); **F21Y 2115/15** (2016.07 - EP US)

Citation (search report)
• [A] DE 202008009797 U1 20081016 - 2K MOXA LIGHTING GMBH [DE]
• [A] US 7578605 B1 20090825 - MULLINS PATRICK STUART [US], et al

Cited by
DE102014114625A1; DE102014114625B4; EP2808601A3; EP3650747A1; WO2013056985A1; DE202013103401U1; EP2902699A1; DE102014101242A1; DE102014101242B4; EP3006824A1

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 2360427 A2 20110824; EP 2360427 A3 20120822; EP 2360427 B1 20130703; DE 102010007774 A1 20110818

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EP 11154291 A 20110214; DE 102010007774 A 20100212