

Title (en)
REFLECTOR EMITTER

Title (de)
REFLEKTORSTRAHLER

Title (fr)
PROJECTEUR A REFLECTEUR

Publication
EP 2102546 A1 20090923 (DE)

Application
EP 07801332 A 20070905

Priority
• DE 2007001597 W 20070905
• DE 102006044019 A 20060915

Abstract (en)
[origin: WO2008031405A1] Known is a reflector lamp with a combined reflector of a revolution-ellipsoid section and a further concave mirror with aperture. Its centre coincides with the first focal point and the aperture's centre coincides with the second focal point of the ellipsoid of revolution; the light source is arranged in the first focal point. This design type with a singular light source requires a high-power lamp. In the new reflector emitter, for a strong light beam using a plurality of lower-power lamps, revolution-ellipsoid sections RE are formed from revolution ellipsoids which are additionally cut in the focal-point plane. The sectional planes of all the mirrors are arranged in one common base plane and the mirror surface of the further concave mirror WH is directed in the direction opposite the others. The light sources LQ are arranged in the first focal points of the revolution-ellipsoid sections RE and their second focal points and the focal point of the further concave mirror WH coincide. All the light beams which are incident on the surface of the revolution-ellipsoid sections RE are reflected onto the further concave mirror WH. Here, the light beams form a shaped bundle which leaves the reflector emitter at right angles to the base plane through the aperture RA.

IPC 8 full level
F21V 7/00 (2006.01)

CPC (source: EP US)
F21V 7/0008 (2013.01 - EP US); **F21V 7/0025** (2013.01 - EP US); **F21V 7/09** (2013.01 - EP US); **F21V 7/16** (2013.01 - EP US);
F21V 14/04 (2013.01 - EP US); **F21V 31/005** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
See references of WO 2008031405A1

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

DOCDB simple family (publication)
WO 2008031405 A1 20080320; AT E508323 T1 20110515; DE 102006044019 A1 20080327; DE 102006044019 B4 20111229;
DE 502007007146 D1 20110616; EP 2102546 A1 20090923; EP 2102546 B1 20110504; JP 2010503954 A 20100204; JP 4954288 B2 20120613;
US 2010020538 A1 20100128; US 8083379 B2 20111227

DOCDB simple family (application)
DE 2007001597 W 20070905; AT 07801332 T 20070905; DE 102006044019 A 20060915; DE 502007007146 T 20070905;
EP 07801332 A 20070905; JP 2009527690 A 20070905; US 44076507 A 20070905