

Title (en)

OPTICAL ADAPTER DEVICE FOR LIGHT-EMITTING DIODES

Title (de)

OPTISCHE ANPASSUNGSVORRICHTUNG FÜR LEUCHTDIODE

Title (fr)

DISPOSITIF D'ADAPTATION OPTIQUE POUR DIODE ÉLECTROLUMINESCENTE

Publication

**EP 2859593 A1 20150415 (DE)**

Application

**EP 12737868 A 20120611**

Priority

IB 2012001126 W 20120611

Abstract (en)

[origin: WO2013108067A1] The invention relates to a device which is designed as an optical adapter device that consists of a transparent material with an increased refractive index, and comprises a layer between the emitting surface of the semiconductor and said optical adapter device. The latter is produced from a material with a low elastic deformation coefficient, and has a thickness that allows the tunnelling of the emitted light.

IPC 8 full level

**H01L 33/44** (2010.01); **H01L 33/58** (2010.01)

CPC (source: EP US)

**H01L 33/04** (2013.01 - US); **H01L 33/44** (2013.01 - EP US); **H01L 33/58** (2013.01 - EP US); **H01L 2933/0091** (2013.01 - EP US)

Citation (search report)

See references of WO 2013108067A1

Citation (examination)

EP 2378837 A1 20111019 - HITACHI LTD [JP]

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)

**WO 2013108067 A1 20130725**; EP 2859593 A1 20150415; RU 2013139012 A 20150227; RU 2565324 C2 20151020; US 2015311412 A1 20151029; US 2016315234 A1 20161027

DOCDB simple family (application)

**IB 2012001126 W 20120611**; EP 12737868 A 20120611; RU 2013139012 A 20120611; US 201214407342 A 20120611; US 201615198938 A 20160630