

Title (en)

OPTICAL SYSTEM FOR FORMING AN IMAGE ON A CONCAVE SPHERICAL SURFACE

Title (de)

OPTISCHES SYSTEM ZUR ERZEUGUNG EINES BILDES AUF EINER KONKAVEN SPHÄRISCHEN OBERFLÄCHE

Title (fr)

SYSTEME OPTIQUE DE FORMATION D'IMAGE SUR UNE SURFACE SPHERIQUE CONCAVE

Publication

**EP 2635931 A2 20130911 (FR)**

Application

**EP 11832144 A 20111028**

Priority

- FR 1058991 A 20101102
- FR 2011052542 W 20111028

Abstract (en)

[origin: WO2012059676A2] The invention relates to an optical system for forming an image on a concave spherical surface comprising, perpendicularly to the optical axis of the spherical surface, starting from the object side: a first elliptical plano-convex lens (L1) with convexity directed towards the object side; a second aspherical plano-concave lens (L2) whose radius of curvature decreases with distance from the axis, with concavity directed towards the image side, made of a material with a smaller Abbe number than that of the first lens; a parallel-faced plate (S1) on which bear the planar faces of the first and second lenses; a third aspherical plano-convex/concave lens (L3) exhibiting a convex shape in its central part and a concave shape at its periphery.

IPC 8 full level

**G02B 9/16** (2006.01); **G02B 9/34** (2006.01); **G02B 13/00** (2006.01); **G02B 13/18** (2006.01)

CPC (source: EP US)

**G02B 9/16** (2013.01 - EP US); **G02B 13/003** (2013.01 - EP US); **G02B 13/006** (2013.01 - EP US); **G02B 13/18** (2013.01 - US)

Citation (search report)

See references of WO 2012059676A2

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

DOCDB simple family (publication)

**FR 2966936 A1 20120504**; **FR 2966936 B1 20121207**; EP 2635931 A2 20130911; US 2014300976 A1 20141009; US 9146384 B2 20150929; WO 2012059676 A2 20120510; WO 2012059676 A3 20120830

DOCDB simple family (application)

**FR 1058991 A 20101102**; EP 11832144 A 20111028; FR 2011052542 W 20111028; US 201113883166 A 20111028