

Title (en)

DEVICE AND METHOD FOR OPTICAL BEAM HOMOGENIZATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR OPTISCHEN STRAHLHOMOGENISIERUNG

Title (fr)

DISPOSITIF ET PROCEDE D'HOMOGENEISATION OPTIQUE DE RAYON

Publication

EP 1743204 A1 20070117 (DE)

Application

EP 05716566 A 20050409

Priority

- EP 2005003751 W 20050409
- DE 102004020250 A 20040426

Abstract (en)

[origin: WO2005103795A1] The invention relates to a device for optical beam homogenization, which comprises at least one optically functional boundary surface for passage of a beam to be homogenized or for reflection of a beam to be homogenized, and a plurality of lens elements (4, 5) or mirror elements that are disposed on the at least one optically functional boundary surface. The lens elements (4, 5) or the mirror elements are curved in their marginal areas to such an extent as to reduce diffraction-related effects.

IPC 8 full level

G02B 27/09 (2006.01); **G02B 3/00** (2006.01); **G02B 3/04** (2006.01); **G02B 5/10** (2006.01); **G02B 27/00** (2006.01)

CPC (source: EP KR US)

G02B 3/0037 (2013.01 - EP US); **G02B 3/04** (2013.01 - EP US); **G02B 5/10** (2013.01 - EP US); **G02B 27/00** (2013.01 - KR); **G02B 27/0025** (2013.01 - EP US); **G02B 27/09** (2013.01 - KR); **G02B 27/0905** (2013.01 - EP US); **G02B 27/0927** (2013.01 - EP US); **G02B 27/0961** (2013.01 - EP US); **G02B 27/0966** (2013.01 - EP US); **G02B 27/0983** (2013.01 - EP US)

Citation (search report)

See references of WO 2005103795A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005103795 A1 20051103; CN 100465698 C 20090304; CN 1947053 A 20070411; DE 102004020250 A1 20051110; EP 1743204 A1 20070117; JP 2007534991 A 20071129; JP 4875609 B2 20120215; KR 101282582 B1 20130704; KR 20070018918 A 20070214; US 2007127131 A1 20070607

DOCDB simple family (application)

EP 2005003751 W 20050409; CN 200580013143 A 20050409; DE 102004020250 A 20040426; EP 05716566 A 20050409; JP 2007509910 A 20050409; KR 20067022114 A 20050409; US 58927006 A 20061026