

Title (en)

OPTICAL MICRO-ACTUATOR, OPTICAL COMPONENT USING SAME, AND METHOD FOR MAKING AN OPTICAL MICRO-ACTUATOR

Title (de)

OPTISCHE MIKRO-BETÄTIGUNGSVORRICHTUNG, DEREN VERWENDUNG IN EINEM OPTISCHEN SYSTEM UND ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)

MICRO-ACTIONNEUR OPTIQUE, COMPOSANT OPTIQUE UTILISANT LE MICRO-ACTIONNEUR, ET PROCEDE DE REALISATION D'UN MICRO-ACTIONNEUR OPTIQUE

Publication

EP 1356336 A2 20031029 (FR)

Application

EP 01270800 A 20011210

Priority

- FR 0103895 W 20011210
- FR 0016148 A 20001212

Abstract (en)

[origin: WO0248777A2] The invention concerns an optical micro-actuator comprising a cavity (30) arranged between at least an input optical path (12, 12a, 12b) and at least an output optical path (14, 14a, 14b), the cavity being adapted to contain at least first and second optical fluids (32, 33, 34, 35), with different optical properties, and means for modifying the position of an interface between the first and second optical fluids relative to the optical paths. The invention is characterised in that the means for modifying the position of the interface comprise at least a chamber, containing at least a fluid, in fluid communication with the cavity, and means for modifying the volume of the chamber. The invention is useful for producing switches and optical crossconnects.

IPC 1-7

G02B 26/02

IPC 8 full level

G02B 26/08 (2006.01); **G02B 6/35** (2006.01); **G02B 26/02** (2006.01)

CPC (source: EP US)

G02B 6/3538 (2013.01 - EP US); **G02B 26/004** (2013.01 - EP US); **G02B 6/3546** (2013.01 - EP US); **G02B 6/3552** (2013.01 - EP US); **G02B 6/357** (2013.01 - EP US)

Citation (search report)

See references of WO 0248777A2

Citation (examination)

CH 159709 A 19330131 - MUELLER CARL DR [DE]

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0248777 A2 20020620; **WO 0248777 A3 20030814**; EP 1356336 A2 20031029; FR 2817974 A1 20020614; FR 2817974 B1 20030912; JP 2004526177 A 20040826; US 2004091201 A1 20040513

DOCDB simple family (application)

FR 0103895 W 20011210; EP 01270800 A 20011210; FR 0016148 A 20001212; JP 2002550027 A 20011210; US 43375203 A 20031216