

Title (en)
DEVICE FOR POSITIONING OPTICAL WAVEGUIDES

Title (de)
VORRICHTUNG ZUM POSITIONIEREN VON LICHTWELLENLEITERN

Title (fr)
DISPOSITIF DE POSITIONNEMENT DE FIBRES OPTIQUES

Publication
EP 1917551 A1 20080507 (DE)

Application
EP 06775870 A 20060817

Priority
• DE 2006001443 W 20060817
• DE 102005038937 A 20050817

Abstract (en)
[origin: WO2007019843A1] The invention relates to a device for splicing optical waveguides (1, 2), which is arranged on a carrier plate (10) which is embodied as a circuit board. Said device comprises a first optical wave guide lead (20a), which is arranged on a spring steel sheet (80a), in order to displace a first optical waveguide (1) in the longitudinal direction, and a second optical waveguide lead (20b) which is arranged on an additional spring steel sheet (80b) in order to displace a second optical waveguide (2) in the longitudinal direction. The spring steel sheets (80a, 80b) are arranged on a flexible lever arm (60a, 60b). The optical waveguides, which are inserted into the optical waveguide leads (20a, 20b), can be displaced in the transversal direction (Sx, Sy) by bending the lever arm (60a, 60b). Precision required for aligning the optical waveguides is produced by the forces which engage on the flexible devices (60a, 60b, 80a, 80b).

IPC 8 full level
G02B 6/255 (2006.01)

CPC (source: EP US)
G02B 6/2557 (2013.01 - EP US); **G02B 6/2551** (2013.01 - EP US)

Citation (search report)
See references of WO 2007019843A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005038937 A1 20070222; CN 101243343 A 20080813; EP 1917551 A1 20080507; JP 2009505144 A 20090205;
US 2009208174 A1 20090820; WO 2007019843 A1 20070222

DOCDB simple family (application)
DE 102005038937 A 20050817; CN 200680030015 A 20060817; DE 2006001443 W 20060817; EP 06775870 A 20060817;
JP 2008526371 A 20060817; US 99067006 A 20060817