Title (en)

DEVICE FOR POSITIONING AN OPTICAL FIBRE

Title (de)

ANORDNUNG ZUR POSITIONIERUNG EINER OPTISCHEN FASER

Title (fr)

DISPOSITIF POUR POSITIONNER UNE FIBRE OPTIQUE

Publication

EP 1402301 A1 20040331 (DE)

Application

EP 02762291 A 20020618

Priority

- DE 10131868 A 20010630
- EP 0206704 W 20020618

Abstract (en)

[origin: WO03005090A1] The invention relates to a device for positioning an optical fibre (2) in relation to an optical component (1) having an active surface. According to the invention, light is transmitted onto the component (1) by the fibre (2) comprising a light-transmitting core and a coating surrounding the same, or is injected by the component (1) into the fibre (2). The optical fibre (2) is arranged in a rectilinear channel of a plane carrier (7) consisting of a semiconductor material and carrying the optical component (1). The channel begins on an edge (9) of the carrier (7) and ends in the course of the same on a front surface (10). The front surface (10) is embodied as a plane, light-reflecting mirror surface which extends at a sharp angle (alpha) in relation to the axis of the fibre (2). The optical component (1) is positioned with its active surface directly next to the mirror surface in such a way that the light which is respectively guided by the fibre (2) onto said mirror surface following reflection falls on the active surface, or that the light from the optical component (1) is injected into the core of the fibre (2).

IPC 1-7

G02B 6/42; H01L 31/0203

IPC 8 full level

G02B 6/42 (2006.01)

CPC (source: EP)

G02B 6/4214 (2013.01); **G02B 6/423** (2013.01)

Citation (search report)

See references of WO 03005090A1

Citation (examination)

- JP H0777632 A 19950320 - RICOH KK
- HILLERICH B.; GEYER A.: "SELF-ALIGNED FLAT-PACK FIBRE-PHOTODIODE COUPLING", ELECTRONICS LETTERS, vol. 24, no. 15, 21 July 1988 (1988-07-21), pages 918 - 919, XP000045141

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 03005090 A1 20030116; DE 10131868 A1 20030116; EP 1402301 A1 20040331

DOCDB simple family (application)

EP 0206704 W 20020618; DE 10131868 A 20010630; EP 02762291 A 20020618