

Title (en)

WAVEGUIDE FORMING METHODS AND WAVEGUIDES FABRICATED THEREFROM

Title (de)

VERFAHREN ZUR BILDUNG VON WELLENLEITERN UND DADURCH HERGESTELLTE WELLENLEITER

Title (fr)

METHODES DE FORMATION DE GUIDES D'ONDES ET GUIDES D'ONDES FABRIQUES A PARTIR DE CETTE METHODE

Publication

**EP 1664872 A2 20060607 (EN)**

Application

**EP 04809535 A 20040805**

Priority

- US 2004025261 W 20040805
- US 65946403 A 20030909

Abstract (en)

[origin: WO2005040052A2] A waveguide (116) fabrication method includes depositing a photodefinable copolymer material (14) comprising methyl methacrylate, tetrafluoropropyl methacrylate, and an epoxy monomer; fixing optical elements (10, 12) relative to the copolymer material; sending light through at least one of the optical elements and copolymer material towards the other; volatilizing uncured monomer. Another waveguide (116) fabrication method includes: fixing optical elements (110, 112) relative to each other, each having an optical surface (11, 13); providing a copolymer blob (114) over the optical surfaces with sufficient surface tension to result in the copolymer blob having a curved surface (15); sending light through each of the optical elements towards the curved surface and the other; volatilizing uncured monomer. An optical path fabrication method comprises: fixing optical elements (70, 76) relative to each other, each having an optical surface (71, 77); translating and rotating a minor (78) until aligned to optimally direct light from one of the optical elements to the other; securing the aligned minor in position.

IPC 1-7

**G02B 6/42**

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2005040052A2

Cited by

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**WO 2005040052 A2 20050506**; **WO 2005040052 A3 20051124**; AU 2004283172 A1 20050506; BR PI0413952 A 20061031; CA 2538699 A1 20050506; CN 1875304 A 20061206; EP 1664872 A2 20060607; EP 1835315 A1 20070919; EP 1835318 A1 20070919; JP 2007505355 A 20070308; KR 20060123723 A 20061204; MX PA06002745 A 20060605; RU 2006111487 A 20060827

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