



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 365 266 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

published in accordance with Art. 158(3) EPC

Note: Bibliography reflects the latest situation

(15) Correction information:
Corrected version no 1 (W1 A1)
INID code(s) 71

(51) Int Cl.7: **G02B 6/24, G02B 7/00**

(86) International application number:
PCT/JP2002/000805

(48) Corrigendum issued on:
16.06.2004 Bulletin 2004/25

(87) International publication number:
WO 2002/063357 (15.08.2002 Gazette 2002/33)

(43) Date of publication:
26.11.2003 Bulletin 2003/48

(21) Application number: **02710442.1**

(22) Date of filing: **01.02.2002**

(84) Designated Contracting States:
AT BE CH DE FR GB LI

(72) Inventors:
• **MUNEKATA, Mutsuo**
Chiba-shi, Chiba 264-0004 (JP)
• **HIGUCHI, Toshiro**
Yokohama-shi, Kanagawa 224-0004 (JP)

(30) Priority: **02.02.2001 JP 2001026644**

(71) Applicants:
• **Japan Science and Technology Corporation**
Kawaguchi-shi, Saitama (JP)
• **Nano Control Co., Ltd.**
Tokyo 140-0013 (JP)

(74) Representative: **Modiano, Guido, Dr.-Ing. et al**
Modiano, Josif, Pisanty & Staub,
Baaderstrasse 3
80469 München (DE)

(54) **DEVICE AND METHOD FOR ALIGNMENT OF OPTICAL AXIS**

(57) An optical axis alignment apparatus 10 has a chuck 13 for holding an optical member 14, a chuck 16 for holding an optical member 15, a pushing mechanism, which pushes the chuck 1 to generate a predeter-

mined frictional force between the optical member 14 and the optical member 15, and actuators 18A to 18D. The actuators 18A to 18D have a piezoelectric element 51b which generates an impulsive inertial force by abrupt extension and contraction.

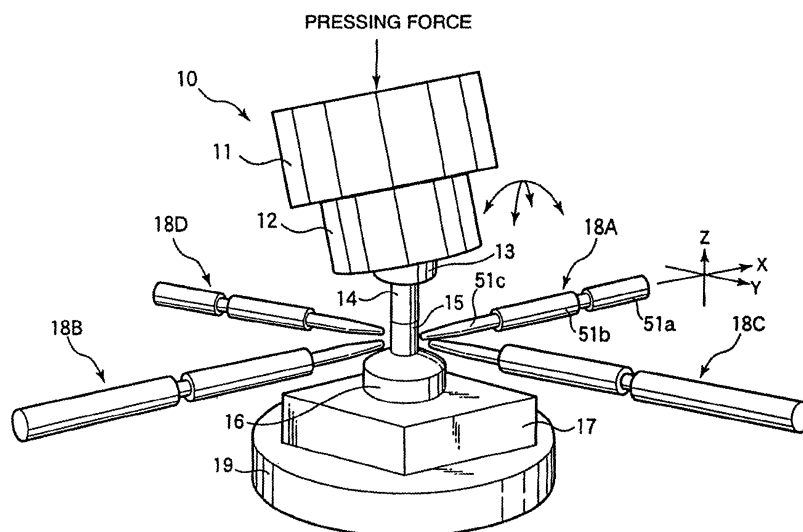


FIG.1

EP 1 365 266 A8