(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 087 246 A8

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
Note: Bibliography reflects the latest situation

(15) Correction information:
Corrected version no 1 (W1 A1)
INID code(s) 72

(48) Corrigendum issued on:
27.04.2005 Bulletin 2005/17

(43) Date of publication:
28.03.2001 Bulletin 2001/13

(21) Application number: **00308410.0**

(22) Date of filing: **25.09.2000**

(51) Int Cl.[7]: **G02B 6/34**

(84) Designated Contracting States:
DE FR GB

(30) Priority: **24.09.1999 JP 27020199**
31.01.2000 JP 2000021533
19.07.2000 JP 2000219205

(71) Applicant: **The Furukawa Electric Co., Ltd.**
Tokyo 100-8322 (JP)

(72) Inventors:
- **Nara, Kazutaka, The Furukawa Electr. Co. Ltd.**
Tokyo 100-8322 (JP)
- **Saito, Tsunetoshi, The Furukawa Electr. Co. Ltd.**
Tokyo 100-8322 (JP)
- **Nakajima, Takeshi,**
The Furukawa Electr. Co. Ltd.
Tokyo 100-8322 (JP)
- **Nashihara, Kazuhisa,**
The Furukawa Electr. Co. Ltd.
Tokyo 100-8322 (JP)

(74) Representative: **Dealtry, Brian et al**
Eric Potter Clarkson,
Park View House,
58 The Ropewalk
Nottingham NG1 5DD (GB)

(54) **Arrayed waveguide grating and temperature compensation**

(57) An arrayed waveguide grating including optical input waveguides (2), a first slab waveguide (3), a plurality of arrayed waveguides (4), a second slab waveguide (5), and a plurality of output waveguides (6). Each of the arrayed waveguides (4) has a different length. At least one of the slab waveguides is divided into first and second segments (3a,3b) at a partition surface (8) intersecting a path of light. One of the segments is configured to be slid along the partition surface to compensate temperature effects like the shift of center wavelength and transmission curve of the arrayed waveguide grating.

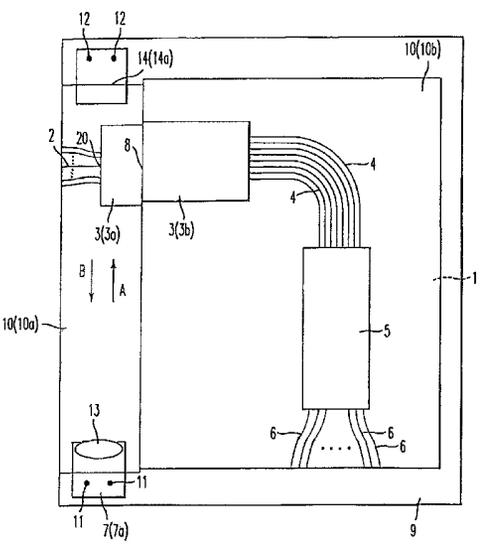

FIG. 1

EP 1 087 246 A8