

Title (en)

DOUBLE DIFFRACTION GRATING PLANAR LIGHTWAVE CIRCUIT

Title (de)

PLANARE LICHTWELLENSCHALTUNG MIT DOPPELBEUGUNGSGITTER

Title (fr)

CIRCUIT PLAN A ONDES LUMINEUSES A RESEAU DE DOUBLE DIFFRACTION

Publication

EP 1733267 A4 20080326 (EN)

Application

EP 05714593 A 20050307

Priority

- CA 2005000352 W 20050307
- US 55568604 P 20040324
- US 92398704 A 20040824

Abstract (en)

[origin: WO2005091032A1] The invention relates to a planar lightwave circuit including a pair of opposed concave reflective diffraction gratings sharing the same focal line, which separates first and second slab waveguide regions. The ends of input and output waveguides are positioned along the focal line for launching and receiving light directed by one or both of the diffraction gratings. The invention enables light within a certain wavelength range to be launched from an input waveguide, directed by a single diffraction grating, and output waveguides, all within a single slab waveguide region, while light within another wavelength range will be directed from one diffraction grating to another for output waveguides in a different slab waveguide region.

IPC 8 full level

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Citation (search report)

- [X] US 5355237 A 19941011 - LANG ROBERT J [US], et al
- [A] US 2002186925 A1 20021212 - LU YING-TSUNG [TW], et al
- [A] JP S61223711 A 19861004 - NIPPON SHEET GLASS CO LTD
- [A] US 5937113 A 19990810 - HE JIAN-JUN [CA], et al
- See references of WO 2005091032A1

Designated contracting state (EPC)

DE DK FR GB IT SE

DOCDB simple family (publication)

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