

Title (en)

OPTICAL FILTER FOR FREQUENCY DEPENDENT FILTERING

Title (de)

OPTISCHES FILTER ZUR FREQUENZABHÄNGIGEN FILTERUNG

Title (fr)

FILTRE OPTIQUE POUR FILTRAGE DEPENDANT DE LA FREQUENCE

Publication

EP 1305661 A4 20050810 (EN)

Application

EP 00940029 A 20000630

Priority

AU 0000735 W 20000630

Abstract (en)

[origin: WO0227370A1] An optical filter for providing frequency dependant filtering of an optical input signal, the filter including: an input wave guide (2); an output waveguide (3); a polarisation separation means (5); a variable polarisation rotation means (7), the variation being dependant on a first control input signal; and a birefringent element (8) having variable birefringence, the variation being dependant on a second control input signal; wherein an optical input signal emitted from the input waveguide (2) passes through the polarisation separation means (5), the variable polarisation rotation means (7) and the birefringent element (8) to the output waveguide (3) so as to produce at the output waveguide (3) an optical output signal having a frequency dependant output characteristics determined by one of the control input signals.

IPC 1-7

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Citation (search report)

- [A] EP 0932068 A2 19990728 - FUJITSU LTD [JP]
- [A] FR 2774482 A1 19990806 - FUJITSU LTD [JP]
- [X] FRISKEN S ET AL: "Low-loss polarisation-independent dynamic gain-equalisation filter", OPTICAL FIBER COMMUNICATION CONFERENCE. TECHNICAL DIGEST POSTCONFERENCE EDITION. TRENDS IN OPTICS AND PHOTONICS VOL.37; 7-10 MARCH 2000 BALTIMORE, MD, USA, vol. 2, 7 March 2000 (2000-03-07), WASHINGTON, DC, USA, pages 251 - 253, XP002330641
- See references of WO 0227370A1

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