

Title (en)
SWITCHABLE WAVELENGTH ADD/DROP COMPONENT

Title (de)
SCHALTBARES BAUELEMENT ZUM HINZUFÜGEN/ZURÜCKNEHMEN VON WELLENLÄNGEN

Title (fr)
COMPOSANT COMMUTABLE D'ADDITION/DE RETRAIT D'UN SIGNAL D'UNE CERTAINE LONGUEUR D'ONDE

Publication
EP 0873612 A4 20020612 (EN)

Application
EP 97937299 A 19970729

Priority
• US 9714463 W 19970729
• US 2499396 P 19960829

Abstract (en)
[origin: WO9809396A1] A device for adding and/or dropping a signal to a transmission line. First (34) and second (36) optical circulators are connected by at least one switchable grating (32), whereby a grating reflector may be switched into or out of the connecting path between the two circulators. A plurality of optical signals, each centered about a different wavelength, is coupled to a first port (1) of the first circulator; these signals appear at the second port (2) thereof. If a grating reflector capable of reflecting is switched into the circuit, the signal centered about propagates from the second port (2) of the first circulator (34) and reflects from the grating reflector back into the second port (2) and out of the third port (3). The remainder of the input signals that are not reflected by the grating reflectors propagate into the first port (1) and from the second circulator (36) as an output thereof. Also, a signal at wavelength input to the third port (3) of the second circulator (36) propagates from the first port (1) to the grating reflector where it reflects back to the second circulator (36) and appears at the second port (2) as an output thereof.

IPC 1-7
H04J 14/02

IPC 8 full level
G02F 1/31 (2006.01); **H04B 10/00** (2013.01); **H04B 10/291** (2013.01); **H04J 14/02** (2006.01)

CPC (source: EP KR)
G02B 6/12021 (2013.01 - KR); **H04B 10/506** (2013.01 - KR); **H04J 14/0202** (2013.01 - KR); **H04J 14/0212** (2013.01 - EP); **G02B 2006/12104** (2013.01 - KR); **H04J 14/0213** (2013.01 - EP); **H04J 14/0219** (2013.01 - EP)

Citation (search report)
• [PX] WO 9706617 A1 19970220 - STC SUBMARINE SYSTEMS LTD [GB], et al
• [A] US 5283686 A 19940201 - HUBER DAVID R [US]
• [PX] OKAYAMA H ET AL: "DYNAMIC WAVELENGTH SELECTIVE ADD/DROP NODE COMPRISING FIBRE GRATINGS AND OPTICAL SWITCHES", ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 33, no. 5, 27 February 1997 (1997-02-27), pages 403 - 404, XP000726988, ISSN: 0013-5194
• See references of WO 9809396A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 9809396 A1 19980305; AU 3984797 A 19980319; CA 2231642 A1 19980305; CN 1198860 A 19981111; EP 0873612 A1 19981028; EP 0873612 A4 20020612; JP H11514758 A 19991214; KR 19990067154 A 19990816; MX 9803355 A 19980930; TW 419605 B 20010121

DOCDB simple family (application)
US 9714463 W 19970729; AU 3984797 A 19970729; CA 2231642 A 19970729; CN 97191094 A 19970729; EP 97937299 A 19970729; JP 51170398 A 19970729; KR 19980703103 A 19980428; MX 9803355 A 19980428; TW 86112567 A 19970827