

Title (en)  
DEVICE FOR DIRECTIONAL AND WAVELENGTH SELECTIVE OPTICAL COUPLING

Title (de)  
OPTISCHER WELLENLÄNGENSELEKTIVER RICHTKOPPLER

Title (fr)  
DISPOSITIF DE COUPLAGE OPTIQUE DIRECTIONNEL ET SELECTIF EN LONGUEUR D'ONDE

Publication  
**EP 1516212 A2 20050323 (FR)**

Application  
**EP 03748175 A 20030617**

Priority  
• FR 0301840 W 20030617  
• FR 0207957 A 20020626

Abstract (en)  
[origin: WO2004003610A2] The invention concerns a device for directional and wavelength selective optical coupling, formed in a photonic crystal (12) and comprising two parallel waveguides (14, 16) separated by a coupling zone (18) for extracting a specific frequency from a signal (30) injected in fundamental mode of a waveguide (14) and for recovering said frequency in output (34) of the other waveguide (16), by coupling between fundamental mode and high order mode of each waveguide.

IPC 1-7  
**G02B 6/124**; **G02B 6/122**

IPC 8 full level  
**G02B 6/12** (2006.01); **G02B 6/122** (2006.01); **G02B 6/26** (2006.01)

CPC (source: EP US)  
**B82Y 20/00** (2013.01 - EP US); **G02B 6/12007** (2013.01 - EP US); **G02B 6/1225** (2013.01 - EP US); **G02B 6/26** (2013.01 - EP US); **G02B 2006/12147** (2013.01 - EP US); **G02B 2006/12164** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004003610A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2841658 A1 20040102**; **FR 2841658 B1 20041022**; AU 2003267488 A1 20040119; AU 2003267488 A8 20040119; CA 2490287 A1 20040108; EP 1516212 A2 20050323; JP 2005531036 A 20051013; US 2005152649 A1 20050714; US 7110641 B2 20060919; WO 2004003610 A2 20040108; WO 2004003610 A3 20040408

DOCDB simple family (application)  
**FR 0207957 A 20020626**; AU 2003267488 A 20030617; CA 2490287 A 20030617; EP 03748175 A 20030617; FR 0301840 W 20030617; JP 2004516846 A 20030617; US 2068804 A 20041222