Title (en)

OPTICAL COMMUNICATION SYSTEM

Title (de)

OPTISCHES NACHRICHTENÜBERTRAGUNGSSYSTEM

Title (fr)

SYSTEME DE COMMUNICATION OPTIQUE

Publication

EP 1314274 A1 20030528 (EN)

Application

EP 01969585 A 20010810

Priority

- EP 01969585 A 20010810
- EP 0109282 W 20010810
- EP 00118760 A 20000830

Abstract (en)

[origin: EP1185018A1] In networks carrying existing optical traffic on one wavelength band in combination with wavelength division multiplexed traffic carried on a second wavelength band, there is a need to enable processing of the two systems without subjecting the WDM channels to unacceptable losses. The invention meets the above need by the provision of a node in an optical communications network that has a first set of add/drop filter elements for extracting and combining optical signals carried on wavelength division multiplexed channels in a first wavelength band and an extraction element and combining element for dropping and adding, respectively, a service channel associated with the wavelength division multiplexed channels. The extraction element is arranged upstream of the add/drop filter elements relative to the direction of traffic flow and the combining element is arranged downstream of the add/drop filter elements. The extraction and combining elements are additionally adapted to drop and add, respectively, at least one further wavelength band carrying at least one optical traffic data channel. <IMAGE>

IPC 1-7

H04J 14/02

IPC 8 full level

H04J 14/02 (2006.01)

CPC (source: EP)

H04J 14/0213 (2013.01); **H04J 14/0241** (2013.01); H04J 14/0227 (2013.01); H04J 14/0283 (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1185018 A1 20020306; AU 8979801 A 20020313; CN 1251437 C 20060412; CN 1449607 A 20031015; EP 1314274 A1 20030528; WO 0219587 A1 20020307

DOCDB simple family (application)

EP 00118760 A 20000830; AU 8979801 A 20010810; CN 01814869 A 20010810; EP 0109282 W 20010810; EP 01969585 A 20010810