Title (en)
OPTICAL NODE WITH ADD-DROP OR CROSS-CONNECT FUNCTIONALITY

Title (de)
OPTISCHER NETZKNOTEN MIT ADD-DROP- ODER CROSS-CONNECT-FUNKTIONALITÄT

Title (fr)
NOEUDS DE RESEAUX OPTIQUES A FONCTIONNALITE D'INSERTION-EXTRACTION OU DE SOUS-REPARTITION

Publication
EP 1304014 A2 20030423 (DE)

Application
EP 01953934 A 20010720

Priority
- DE 0102771 W 20010720
- DE 10036709 A 20000727

Abstract (en)
[origin: WO0215632A2] The invention relates to a device and to several methods regarding an optical node with add-drop and/or cross-connect functionality. The inventive node represents the interconnection of a first and a second optical line via a first and second drop path, respectively, provided with a first cross-connect and a second cross-connect to a first and a second tributary output. In parallel thereto, a first and a second tributary input is coupled into the second optical line via the first or second cross-connect either by a first wavelength converter and a second add path or by a second wavelength converter and a first add path. The inventive optical node allows that optical signals may maintain or change their direction and/or maintain or change their wavelength. The inventive optical node also allows interconnection of optical transmitter signals to the inputs of the tributary side.

IPC 1-7
H04Q 11/00; H04J 14/02

IPC 8 full level
H04J 14/02 (2006.01); **H04Q 11/00** (2006.01)

CPC (source: EP US)
H04J 14/0204 (2013.01 - EP US); **H04J 14/0205** (2013.01 - EP US); **H04J 14/0206** (2013.01 - EP US); **H04J 14/021** (2013.01 - EP US); **H04J 14/0212** (2013.01 - US); **H04J 14/0213** (2013.01 - EP US); **H04J 14/0293** (2013.01 - EP US); **H04Q 11/0005** (2013.01 - EP US); H04J 14/0283 (2013.01 - EP US); H04Q 2011/0011 (2013.01 - EP US); H04Q 2011/0018 (2013.01 - EP US); H04Q 2011/0022 (2013.01 - EP US); H04Q 2011/0035 (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0215632 A2 20020221; **WO 0215632 A3 20020718**; AU 7632801 A 20020225; CN 1589586 A 20050302; DE 10036709 A1 20020214; DE 10036709 B4 20060706; DE 50113894 D1 20080605; EP 1304014 A2 20030423; EP 1304014 B1 20080423; US 2004042711 A1 20040304; US 6931175 B2 20050816

DOCDB simple family (application)
DE 0102771 W 20010720; AU 7632801 A 20010720; CN 01813424 A 20010720; DE 10036709 A 20000727; DE 50113894 T 20010720; EP 01953934 A 20010720; US 34320803 A 20030825