

Title (en)
OPTICAL COMMUNICATION SYSTEM

Title (de)
OPTISCHES NACHRICHTENÜBERTRAGUNGSSYSTEM

Title (fr)
SYSTEME DE COMMUNICATION OPTIQUE

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Application
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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>

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