

Title (en)

DEVICE FOR GENERATING CARRIERS FOR WAVELENGTH-DIVISION MULTIPLEXING OPTICAL TRANSMISSION SYSTEM WITH RZ SIGNALS

Title (de)

TRÄGERGENERATOR FÜR OPTISCHEN WELLENLÄNGEN-MULTIPLEX-SYSTEMEN MIT RZ-SIGNALEN

Title (fr)

DISPOSITIF DE GENERATION DE PORTEUSES POUR SYSTEME DE TRANSMISSION OPTIQUE A MULTIPLEXAGE EN LONGUEUR D'ONDE A SIGNAUX RZ

Publication

EP 1142168 A1 20011010 (FR)

Application

EP 00968017 A 20001012

Priority

- FR 0002838 W 20001012
- FR 9912811 A 19991014

Abstract (en)

[origin: WO0128138A1] The invention concerns the generation of optical carriers in optical transmission systems with RZ signals. It concerns a device for generating RZ signals, comprising optical sources delivering wavelength multiplexed input signals, an optical clock delivering a clock signal, and an optical gate receiving on its input the multiplexed optical signals and on its control input the clock signal. The optical gate delivers in output RZ signals. The optical gate is a loop non-linear mirror with one or two optical amplifiers, and one or two control inputs for injecting into the loop the clock signal. The invention enables to generate quality RZ carriers, from a single optical clock.

IPC 1-7

H04B 10/18

IPC 8 full level

G02F 1/365 (2006.01); **H01S 5/50** (2006.01); **H04B 10/2507** (2013.01); **H04J 14/00** (2006.01); **H04J 14/02** (2006.01); **H04L 7/00** (2006.01)

CPC (source: EP)

H04B 10/25077 (2013.01); **H04L 7/0075** (2013.01)

Citation (search report)

See references of WO 0128138A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0128138 A1 20010419; CA 2355355 A1 20010419; EP 1142168 A1 20011010; FR 2803399 A1 20010706; FR 2803399 B1 20030117; JP 2003511966 A 20030325

DOCDB simple family (application)

FR 0002838 W 20001012; CA 2355355 A 20001012; EP 00968017 A 20001012; FR 9912811 A 19991014; JP 2001530242 A 20001012