

Title (en)
CASCADE-FORM WAVELENGTH DIVISION MULTIPLEXING OPTOELECTRONIC TRANSCEIVER DEVICE, SYSTEM AND METHOD

Title (de)
KASKADENFÖRMIGE OPTOELEKTRONISCHE WDM-SENDEEMPFÄNGER-VORRICHTUNG, SYSTEM UND VERFAHREN

Title (fr)
DISPOSITIF, SYSTEME ET PROCEDE EMETTEUR-RECEPTEUR OPTOELECTRONIQUE WDM EN CASCADE

Publication
EP 3207648 A1 20170823 (FR)

Application
EP 15787263 A 20151009

Priority
• FR 1459816 A 20141013
• FR 2015052730 W 20151009

Abstract (en)
[origin: WO2016059330A1] The invention relates to an optoelectronic transceiver device comprising a first optical connector (OC1) capable of connection to a first bidirectional optical fibre (OF1), and a second optical connector (OC2) capable of connection to a second bidirectional optical fibre (OF2), the device further comprising: an insertion-extraction module (ADM) capable of: extracting a wavelength (λ_{Rx}) from a plurality of wavelengths constituting a first optical signal received by the first optical connector (OC1) and transmitting the first optical signal without the extracted wavelength to the second optical connector (OC2); inserting a wavelength (λ_{Tx}) into a second optical signal received by the second optical connector (OC2) and transmitting the second optical signal with the inserted wavelength to the first optical connector (OC1); an electric-optical conversion module (EC1) capable of providing the insertion-extraction module with the wavelength (λ_{Tx}) inserted into the second optical signal from an incoming electric signal (Data Tx); and an optical-electric conversion module (EC2) capable of converting the wavelength (λ_{Rx}) extracted from the first optical signal by the insertion-extraction module into an outgoing electric signal (Data Rx).

IPC 8 full level
H04J 14/02 (2006.01)

CPC (source: EP US)
G02B 6/3897 (2013.01 - US); **G02B 6/4246** (2013.01 - US); **H04B 10/2589** (2020.05 - US); **H04J 14/0201** (2013.01 - EP US); **H04J 14/0212** (2013.01 - EP US); **H04J 14/0216** (2013.01 - EP US); **H04J 14/0223** (2013.01 - US); **H04J 14/0278** (2013.01 - EP US); **H04J 14/0282** (2013.01 - EP US); **H04Q 11/0067** (2013.01 - US); **H04Q 11/0071** (2013.01 - US); **H04Q 2011/0016** (2013.01 - US); **H04Q 2011/0033** (2013.01 - US); **H04Q 2011/0081** (2013.01 - US)

Citation (search report)
See references of WO 2016059330A1

Cited by
CN114124229A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3027174 A1 20160415; EP 3207648 A1 20170823; US 10070209 B2 20180904; US 2017295417 A1 20171012; WO 2016059330 A1 20160421

DOCDB simple family (application)
FR 1459816 A 20141013; EP 15787263 A 20151009; FR 2015052730 W 20151009; US 201515518154 A 20151009