

Title (en)

METHOD AND DEVICE FOR DATA PROCESSING IN AN OPTICAL COMMUNICATION NETWORK

Title (de)

VERFAHREN UND VORRICHTUNG FÜR DATENVERARBEITUNG IN EINEM OPTISCHEN KOMMUNIKATIONSNETZ

Title (fr)

PROCÉDÉ ET DISPOSITIF DE TRAITEMENT DE DONNÉES DANS UN RÉSEAU DE COMMUNICATION OPTIQUE

Publication

**EP 2591581 A1 20130515 (EN)**

Application

**EP 10730166 A 20100705**

Priority

EP 2010059550 W 20100705

Abstract (en)

[origin: WO2012003856A1] A method and a device for data processing in an optical communication network are provided, wherein a phase modulation is conducted comprising several phase states; and wherein a phase state change between different phase states is gradually conducted. Furthermore, a communication system is suggested comprising at least one such device.

IPC 1-7

**H04B 10/155**

IPC 8 full level

**H04B 10/556** (2013.01); **H04L 27/20** (2006.01)

CPC (source: EP)

**H04B 10/516** (2013.01); **H04B 10/5561** (2013.01); **H04B 10/58** (2013.01); **H04B 14/008** (2013.01); **H04L 25/0244** (2013.01); **H04L 27/2025** (2013.01); **H04L 27/2096** (2013.01)

Citation (search report)

See references of WO 2012003856A1

Citation (examination)

- WO 03028267 A1 20030403 - CELIGHT INC [US]
- BARRY J R ET AL: "Reduced-Bandwidth Duobinary Differential Continuous-Phase Modulation Format for Optical Communications", IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 17, no. 6, 1 June 2005 (2005-06-01), pages 1331 - 1333, XP011132351, ISSN: 1041-1135, DOI: 10.1109/LPT.2005.846572
- KERRY HINTON ED - LEIGH FISCHER ET AL: "Species of DPSK & DQPSK", OPTICAL FIBRE TECHNOLOGY/AUSTRALIAN OPTICAL SOCIETY, 2006. ACOFT/AOS 2006. AUSTRALIAN CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 10 July 2006 (2006-07-10), pages 25 - 27, XP031252066, ISBN: 978-0-9775657-1-9
- THOMAS F DETWILER ET AL: "Continuous phase modulation as an alternative to QPSK for 100 Gb/s optical links", OPTICAL FIBER COMMUNICATION (OFC), COLLOCATED NATIONAL FIBER OPTIC ENGINEERS CONFERENCE, 2010 CONFERENCE ON (OFC/NFOEC), IEEE, PISCATAWAY, NJ, USA, 21 March 2010 (2010-03-21), pages 1 - 3, XP031676686
- BISHARA SHAMEE ET AL: "Gaussian Minimum Shift Keying for spectrally efficient and dispersion tolerant optical communications", CONFERENCE ON LASERS AND ELECTRO-OPTICS (CLEO) AND QUANTUM ELECTRONICS AND LASER SCIENCE CONFERENCE (QELS), 2010 : 16 - 21 MAY 2010, SAN JOSE, CA, USA, IEEE, PISCATAWAY, NJ, USA, 16 May 2010 (2010-05-16), pages 1 - 2, XP031701845, ISBN: 978-1-55752-890-2

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2012003856 A1 20120112**; EP 2591581 A1 20130515

DOCDB simple family (application)

**EP 2010059550 W 20100705**; EP 10730166 A 20100705