

Title (en)

OPTICAL TRANSMISSION SYSTEM ET DEVICE FOR RECEIVING AN OPTICAL SIGNAL

Title (de)

OPTISCHES ÜBERTRAGUNGSSYSTEM UND VORRICHTUNG FÜR DEN EMPFANG EINES OPTISCHEN SIGNALS

Title (fr)

SYSTÈME DE TRANSMISSION OPTIQUE ET DISPOSITIF DE RÉCEPTION D'UN SIGNAL OPTIQUE

Publication

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Application

EP 06794190 A 20060713

Priority

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- FR 0508013 A 20050727

Abstract (en)

[origin: WO2007012730A2] The invention concerns a device for receiving (100) an optical signal comprising at least one pulsed optical signal ? ₀ modulated by a pulsed electric signal O whereof the ϕ_1 phase varies based on the value of at least one data bit to be transmitted. The receiver device (100) comprises a polarizing separator (105) for separating the modulated pulsed optical signal ?₀, into first and second optical signals of different polarization, means for obtaining (140, 102, 103, 104) both electric signals, means for modulating (110a) the first optical signal from the first electric signal, means for modulating (110b) the second optical signal from the second electric signal, means for combining (115) the first modulated optical signal and the second modulated optical signal to form a recombined optical signal.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2007012730A2

Citation (examination)

BETHUNE D S ET AL: "AN AUTOCOMPENSATION FIBER-OPTIC QUANTUM CRYPTOGRAPHY SYSTEM BASED ON POLARIZATION SPLITTING OF LIGHT", IEEE JOURNAL OF QUANTUM ELECTRONICS, IEEE SERVICE CENTER, PISCATAWAY, NJ, USA LNKD-DOI:10.1109/3.825881, vol. 36, no. 3, 1 March 2000 (2000-03-01), pages 340 - 347, XP000935998, ISSN: 0018-9197

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