

Title (en)
LONG LINE FIBER OPTIC COMMUNICATION SYSTEM WITHOUT REPEATERS OR WITH WIDELY SPACED REPEATERS AND WITH INEXPENSIVE AMPLIFIERS

Title (de)
FASEROPTISCHES LANGSTRECKENKOMMUNIKATIONSSYSTEM OHNE ZWISCHENVERSTÄRKER ODER MIT STARK BEABSTANDETEN ZWISCHENVERSTÄRKERN UND MIT KOSTENGÜNSTIGEN VERSTÄRKERN

Title (fr)
SYSTÈME DE COMMUNICATION LONGUE DISTANCE PAR FIBRES OPTIQUES SANS RÉPÉTEUR OU RÉPÉTEURS FORTEMENT ESPACÉS ET AMPLIFICATEURS BON MARCHÉ

Publication
EP 1410533 A1 20040421 (EN)

Application
EP 01971256 A 20010920

Priority
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• US 66643600 A 20000921

Abstract (en)
[origin: WO0225840A1] A long distance fiber optic transmission system for carrying signals over 2000 kilometers without repeaters or dispersion compensation between a head end (10) and a receiving station (20), with total signal carrying capacity of over 500 billion bits per second and 500 billion Hertz. A bank of unmodulated spectral lines, to be modulated spaced about 5 gigahertz on center are generated and transmitted to a head end (10). The bit rate of incoming signals to be transmitted is detected and if the bit rate is too high it is demultiplexed in time (12). The signals are demultiplexed in time until the bit rate of each signal low enough so that it can go to its receive station without needing repeaters.

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H04B 10/00

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Citation (search report)
See references of WO 0225840A1

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