Title (en)

CHANNEL GAIN CONTROL FOR AN OPTICAL COMMUNICATIONS SYSTEM UTILIZING FREQUENCY DIVISION MULTIPLEXING

Title (de)

KANAL-VERSTÄRKUNGSREGELUNG FÜR EIN OPTISCHES KOMMUNIKATIONSSYSTEM MIT FREQUENZMULTIPLEXIERUNG

Title (fr)

COMMANDE DE GAIN DE CANAL DESTINEE A UN SYSTEME DE TELECOMMUNICATIONS OPTIQUES ET METTANT EN OEUVRE UN MULTIPLEXAGE EN FREQUENCE

Publication

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Application

EP 00968394 A 20000921

Priority

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Abstract (en)

[origin: WO0122628A1] Frequency-dependent gain effects in an optical fiber communications system, such as fiber dispersion, may be compensated. A number of low-speed channels is to be transmitted across an optical fiber communications system. Each low-speed channel is allocated a different frequency band of the optical fiber communications system. The gain, including both attenuation and amplification, of the communications system at each of the frequency bands is estimated. The power of each low-speed channel is adjusted to compensate for the estimated gain effects. In a preferred embodiment, the low-speed channels are frequency division multiplexed together to produce an electrical high-speed channel suitable for transmission across the communications system.

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IPC 8 full level

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