

Title (en)

METHOD AND ARRANGEMENT FOR THE DETERMINATION AND SEPARATION OF SINGLE CHANNEL EFFECTS ON THE OPTICAL TRANSMISSION OF A WAVELENGTH-MULTIPLEX (WDM) SIGNAL

Title (de)

VERFAHREN UND ANORDNUNG ZUR ERMITTLUNG UND TRENNUNG VON EINZELKANALEFFEKTEN BEI DER OPTISCHEN ÜBERTRAGUNG EINES WELLENLÄNGEN-MULTIPLEX (-WDM)-SIGNALS

Title (fr)

PROCEDE ET DISPOSITIF DE DETERMINATION ET DE SEPARATION D'EFFETS DE CANAUX INDIVIDUELS LORS DU TRANSFERT OPTIQUE D'UN SIGNAL DE MULTIPLEXAGE PAR REPARTITION EN LONGUEUR D'ONDE (WDM)

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03005620A2] A method and arrangement for the determination and separation of single channel effects "Group Velocity Dispersion" (GVD), "Self Phase Modulation" (SPM), "Intra Channel Cross-talk" (ICC) and "Stimulated Brillouin Scattering" (SBS) on optical transmission of a wavelength multiplex (WDM) signal which comprises several channels are disclosed. The channels are separated by a demultiplexer and fed to an electrooptical converter for the generation of electrical signals. The electrical signals comprising broadband frequency data contain distortions due to the single channel effects on optical transmission. The electrical signals are supplied to an electrical spectrum analyser and an electrical amplitude distributor for the analysis, determination and separation of the single channel effects.

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