

Title (en)

METHOD AND ARRANGEMENT FOR DETERMINING SIGNAL DEGRADATIONS IN THE PRESENCE OF SIGNAL DISTORTIONS

Title (de)

VERFAHREN UND ANORDNUNG ZUR ERMITTLUNG VON SIGNALDEGRADATIONEN IN ANWESENHEIT VON SIGNALVERZERRUNGEN

Title (fr)

PROCEDE ET SYSTEME POUR DETERMINER DES DEGRADATIONS DU SIGNAL EN PRESENCE DE DISTORSIONS DU SIGNAL

Publication

**EP 1550247 A1 20050706 (DE)**

Application

**EP 03807733 A 20030904**

Priority

- DE 0302941 W 20030904
- DE 10246723 A 20021008

Abstract (en)

[origin: WO2004034611A1] The invention relates to a method and several arrangements for determining signal degradations of an optical signal transmitted in a transmission signal in the presence of signal distortions, wherein at least one part of the optical signal is fed to an adaptive optical or electric filter at a place of measurement in the transmission system and is subsequently measured according to one or several quality parameters. A first measurement of the quality parameter is carried out by transparent adjustment of the adaptive filter and other measurements of the quality parameters are carried out with predefined transparency properties of the adaptive optical filter which respectively have an influence upon signal distortions. As a result it is possible to analyze or to separate signal-influencing effects or groups of effects. In another embodiment of the invention, the filter parameters of an optical/electric equalizer or filter structure, which are adjusted by said analysis, are described according to optimization of the signal quality.

IPC 1-7

**H04B 10/18**

IPC 8 full level

**H04B 10/2507** (2013.01)

CPC (source: EP US)

**H04B 10/2507** (2013.01 - EP US)

Citation (search report)

See references of WO 2004034611A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**WO 2004034611 A1 20040422**; CA 2501372 A1 20040422; CN 1689255 A 20051026; DE 10246723 A1 20040513; EP 1550247 A1 20050706; US 2005201757 A1 20050915; US 2006088318 A1 20060427

DOCDB simple family (application)

**DE 0302941 W 20030904**; CA 2501372 A 20030904; CN 03823952 A 20030904; DE 10246723 A 20021008; EP 03807733 A 20030904; US 10293405 A 20050407; US 53062105 A 20050407