

Title (en)

DEVICE AND METHOD FOR DETECTING DISTORTIONS DURING OPTICAL INFORMATION TRANSMISSION

Title (de)

ANORDNUNG UND VERFAHREN FÜR DIE VERZERRUNGSDETEKTION BEI DER OPTISCHEN INFORMATIONSTRANSFERUNG

Title (fr)

DISPOSITIF ET PROCÉDE DE DETECTION DE DISTORSIONS DANS LA TRANSMISSION OPTIQUE D'INFORMATIONS

Publication

**EP 1338105 A2 20030827 (DE)**

Application

**EP 01989354 A 20011128**

Priority

- DE 0104371 W 20011128
- DE 10059648 A 20001201
- DE 10146557 A 20010921

Abstract (en)

[origin: WO0245302A2] The invention relates to a device and to a corresponding method with which distortions of an optical signal (OS) are detected in an extreme value detector (DET1, DET2, DET3) by establishing a maximum signal and a minimum signal. The detected signal (ED), which is not differentiated at all, which is differentiated once or which is differentiated a number of times, is supplied as an alternating signal (SED1, SED2, SED3) to the extreme value detector (DET1, DET2, DET3). This enables, for example, the polarization mode dispersion of a higher order or the chromatic dispersion to be detected and, optionally, compensated for by means of a compensating element (C1, C2, TR).

IPC 1-7

**H04B 10/18**; **H04B 10/08**

IPC 8 full level

**H04B 10/077** (2013.01); **H04B 10/079** (2013.01); **H04B 10/2513** (2013.01); **H04B 10/2569** (2013.01)

CPC (source: EP)

**H04B 10/077** (2013.01); **H04B 10/07955** (2013.01); **H04B 10/25133** (2013.01); **H04B 10/2569** (2013.01)

Citation (search report)

See references of WO 0245302A2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 0245302 A2 20020606**; **WO 0245302 A3 20030508**; EP 1338105 A2 20030827

DOCDB simple family (application)

**DE 0104371 W 20011128**; EP 01989354 A 20011128