

(19)



(11)

**EP 2 174 113 B8**

(12)

**CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:

**Corrected version no 1 (W1 B1)**  
**Corrections, see**  
**Bibliography INID code(s) 73**

(51) Int Cl.:

**G01N 21/00** <sup>(2006.01)</sup> **H04B 10/035** <sup>(2013.01)</sup>  
**H04B 10/077** <sup>(2013.01)</sup>

(48) Corrigendum issued on:

**16.08.2017 Bulletin 2017/33**

(86) International application number:

**PCT/US2008/071395**

(45) Date of publication and mention of the grant of the patent:

**22.03.2017 Bulletin 2017/12**

(87) International publication number:

**WO 2009/018236 (05.02.2009 Gazette 2009/06)**

(21) Application number: **08782468.6**

(22) Date of filing: **28.07.2008**

**(54) SYSTEM AND METHOD USING DIFFERENTIAL LOOP GAIN FOR FAULT IDENTIFICATION IN LINE MONITORING EQUIPMENT**

SYSTEM UND VERFAHREN MIT UNTERSCHIEDLICHER LOOP-VERSTÄRKUNG ZUR FEHLERIDENTIFIKATION IN EINEM LEITUNGSÜBERWACHUNGSGERÄT

SYSTÈME ET PROCÉDÉ SERVANT À IDENTIFIER DES DÉFAILLANCES DANS UN ÉQUIPEMENT DE SURVEILLANCE DE LIGNE À L'AIDE D'UN GAIN DE BOUCLE DIFFÉRENTIELLE

(84) Designated Contracting States:

**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR**

(74) Representative: **Johnstone, Douglas Ian et al**

**Baron Warren Redfern**  
**1000 Great West Road**  
**Brentford TW8 9DW (GB)**

(30) Priority: **27.07.2007 US 829422**

(43) Date of publication of application:

**14.04.2010 Bulletin 2010/15**

(56) References cited:

**WO-A1-00/60773 US-A1- 2004 095 569**  
**US-A1- 2004 096 214 US-A1- 2006 007 426**  
**US-B2- 7 035 545**

(73) Proprietor: **Tyco Electronics Subsea**

**Communications LLC**  
**Eatontown, NJ 07724 (US)**

- **HADJIFOTIOU A ET AL: "Supervisory options for fibre optical amplifier systems", TELECOMMUNICATIONS, 1993. FOURTH IEE CONFERENCE ON (CONF. PUBL. NO. 37 1) MANCHESTER, UK, LONDON, UK, IEE, UK, 1 January 1993 (1993-01-01), pages 53-56, XP006514403, ISBN: 978-0-85296-568-9**

(72) Inventors:

- **ZHANG, Hongbin**  
**Marlboro, New Jersey 07746 (US)**
- **JANDER, Ralph, B.**  
**Freehold, New Jersey 07728 (US)**

**EP 2 174 113 B8**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).