Title (en)
NON-INTRUSIVE TRAFFIC MONITORING IN OPTICAL FIBER NETWORKS

Title (de)
NICHTINTRUSIVE VERKEHRSÜBERWACHUNG IN GLASFASERNETZWERKEN

Title (fr)
SURVEILLANCE DE TRAFIC NON INTRUSIVE DANS DES RÉSEAUX DE FIBRES OPTIQUES

Publication
EP 4186179 A1 20230531 (EN)

Application
EP 21748670 A 20210721

Priority
• PT 11659920 A 20200724
• IB 2021056608 W 20210721

Abstract (en)
[origin: WO2022018670A1] The present invention describes a real-time monitoring system for passive optical fiber networks for use under DWDM, GPON, XGPON, technologies, or others, in a permanent and non-intrusive manner. The system developed allows, in a non-limitative manner, the bidirectional real-time monitoring of at least 12 optical channels simultaneously. The system developed comprises the use of two components, a reading module, and a user device that is technically adapted to proceed with reading the information originating from the reading module, which will make available to the user the operational state of each optical fiber analyzed. The communication between the devices can comprise the use of NFC technology or other that is technically equivalent. Without being considered as a limitation to the functionality of the system, this can contemplate the use of local or remote physical energy sources, the latter resorting to power transmission by the proximity of the user device.

IPC 8 full level
H04B 10/075 (2013.01); **G01M 11/00** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP)
G01M 11/35 (2013.01); **G02B 6/4289** (2013.01); **H04B 10/075** (2013.01)

Citation (search report)
See references of WO 2022018670A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022018670 A1 20220127; EP 4186179 A1 20230531

DOCDB simple family (application)
IB 2021056608 W 20210721; EP 21748670 A 20210721