

Title (en)

Method and device for the real time detection of the state of occupation of railroad sections based on FBG sensors

Title (de)

Verfahren und Vorrichtung zur Echtzeit-Detektion des Belegungsstatus von Bahnstreckenabschnitten auf Grundlage von FBG-Sensoren

Title (fr)

Procédé et dispositif pour la détection en temps réel d'un état d'occupation de sections de chemin de fer d'après des capteurs FBG

Publication

**EP 2368782 A1 20110928 (EN)**

Application

**EP 10425078 A 20100319**

Priority

EP 10425078 A 20100319

Abstract (en)

Method and device for the real time detection of the state of occupation of railroad sections, said device comprising: an elastic holder (4) adapted to be inserted in a hole (1) of the web of the rail track, at least one Fiber Bragg Grating (FBG) sensor (3) fixedly attached to said elastic holder (4) and a fiber optic link (6) connected to said at least one Fiber Bragg Grating (FBG) sensor (3).

IPC 8 full level

**B61L 1/16** (2006.01); **B61L 23/04** (2006.01)

CPC (source: EP)

**B61L 1/166** (2013.01)

Citation (search report)

- [A] EP 1582430 A1 20051005 - UNIV HONG KONG POLYTECHNIC [CN]
- [A] EP 2112047 A2 20091028 - ACE SNC [IT]
- [A] EP 1902923 A2 20080326 - ANSALDO SEGNALAMENTO FERROVIARIO SPA [IT], et al
- [A] WO 2006112959 A2 20061026 - FIBERA INC [US], et al

Cited by

CN109131436A; CN104203713A; WO2013114129A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

**EP 2368782 A1 20110928**; WO 2011113931 A1 20110922

DOCDB simple family (application)

**EP 10425078 A 20100319**; EP 2011054124 W 20110318