Title (en)
System for real-time monitoring of the state of occupation of railway lines

Title (de)
System zur Echtzeitüberwachung der Belegung von Eisenbahnstrecken

Title (fr)
Système pour la surveillance en temps réel de l'occupation d'une voie de chemins de fer

Publication
EP 1902923 A3 20080611 (EN)

Application
EP 07113574 A 20070731

Priority
IT BN20060004 A 20060920

Abstract (en)
[origin: EP1902923A2] Axle-count automatic-block system for monitoring the state of occupation of a section of railway line by means of sensors designed to count the number of axles of railway vehicles that enter the section of line, the system comprising two optical-fibre Bragg-grating sensors, which are mounted at a distance from one another in positions corresponding to end portions of a section of railway line to be monitored and identify a block section, connected by means of an optical fibre to a querying system, which is able to send a light radiation to the sensors and process the radiation back-reflected by each of the sensors in order to acquire the information on the direction of travel of the railway vehicles and on the state of occupation of the block section.

IPC 8 full level
B61L 1/16 (2006.01)

CPC (source: EP)
B61L 1/166 (2013.01); **B61L 1/169** (2013.01)

Citation (search report)
- [XAY] US 2006202860 A1 20060914 - TSAI JOHN C [US], et al
- [X] EP 1582430 A1 20051005 - UNIV HONG KONG POLYTECHNIC [CN]
- [Y] US 5680489 A 19971021 - KERSEY ALAN D [US]

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KR101049552B1; EP2368782A1; EP3388812A1; CN101863278A; CN107128332A; CN113879358A; CN104203713A; RU2619148C2; US10272930B2; EP2112047A3; US9310273B2; EP3978331A1; AU2021356025B2; WO2011113931A1; WO2013001268A3; WO2013114129A1; US9561812B2; WO2022073842A1; US10604843B2; US11732362B2; EP3050774B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1902923 A2 20080326; **EP 1902923 A3 20080611**; **EP 1902923 B1 20100414**; AT E464217 T1 20100415; DE 602007005889 D1 20100527; IT BN20060004 A1 20061220; PL 1902923 T3 20101029

DOCDB simple family (application)
EP 07113574 A 20070731; AT 07113574 T 20070731; DE 602007005889 T 20070731; IT BN20060004 A 20060920; PL 07113574 T 20070731