Title (en)
METHOD AND DEVICE FOR MONITORING TRAIN INTEGRITY

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG DER ZUGVOLLSTÄNDIGKEIT

Title (fr)
PROCÉDÉ ET DISPOSITIF DE CONTRÔLE DE L'INTÉGRITÉ D'UN TRAIN

Publication
EP 2531391 A1 20121212 (DE)

Application
EP 11702420 A 20110127

Priority
• DE 102010006949 A 20100203
• EP 2011051148 W 20110127

Abstract (en)
[origin: WO2011095429A1] The invention relates to a method and device for monitoring train integrity wherein train integrity modules - TIM - (2.1 to 2.4) arranged in at least one part of the cars (6.1 to 6.5) of the train (3) recognize shunting regions (1.1 to 1.3) in accordance with a digital card, the TIM (2.1 to 2.4) exchange data upon exiting a first shunting region (1.1 to 1.3) in a calibration phase and, based on predefined data stability criteria, recognize the affiliation thereof to the exiting train (3) and the TIM (2.1 to 2.4) cyclically exchange sensor data, in particular in respect of velocity (4), position and travel direction, until entry into a second shunting region (1.1 to 1.3), wherein the TIM (2.1 to 2.4) recognize a train separation on the basis of predefined logic criteria and optionally transmit the sensor data to an operating control center as applicable.

IPC 8 full level
B61L 15/00 (2006.01)

CPC (source: EP US)
B61L 15/0027 (2013.01 - EP US); **B61L 15/0054** (2013.01 - EP US); B61L 21/10 (2013.01 - US); B61L 25/021 (2013.01 - US); B61L 25/023 (2013.01 - US)

Citation (search report)
See references of WO 2011095429A1

Cited by
EP3699059A1; EP3228519A1; WO2017174541A1; US10967895B2

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

DOCDB simple family (publication)
DE 102010006949 A1 20110804; **DE 102010006949 B4 20131002**; CN 102741108 A 20121017; CN 102741108 B 20150513; EP 2531391 A1 20121212; EP 2531391 B1 20140305; RU 2012137230 A 20140310; RU 2556263 C2 20150710; US 2012303188 A1 20121129; US 9221478 B2 20151229; WO 2011095429 A1 20110811

DOCDB simple family (application)
DE 102010006949 A 20100203; CN 201180008283 A 20110127; EP 11702420 A 20110127; EP 2011051148 W 20110127; RU 2012137230 A 20110127; US 201113577010 A 20110127