

Title (en)

DEVICE FOR THE DETECTION OF THE OCCUPIED OR FREE STATE OF A TRACK SECTION

Title (de)

VORRICHTUNG ZUR DETEKTION DES BELEGT- ODER FREIZUSTANDES EINES GLEISABSCHNITTES

Title (fr)

DISPOSITIF DE DÉTECTION DE L'ÉTAT OCCUPÉ OU LIBRE D'UNE SECTION DE VOIE

Publication

EP 2279107 A1 20110202 (DE)

Application

EP 09749741 A 20090513

Priority

- EP 2009055750 W 20090513
- DE 102008025188 A 20080523

Abstract (en)

[origin: WO2009141251A1] The invention relates to a device for the detection of the occupied or free state of a track section (1), comprising at least one transmitter (S1, S2) on the vehicle side, and pairs of receivers on the track side, which are disposed at the ends (2, 3) of the track section (1), each having first and second receivers (E1, E2) disposed at a distance in the track direction 10, wherein the receivers (E1, E2) receive signals from the transmitter (S1, S2) as the vehicle (4) passes and are connected to an analysis unit. In order to ensure exact association between the track section ends (2, 3) and the current vehicle position, the invention provides that for a coupling range (D1, D2) between the transmitter (S1, S2) and the receiver (E1, E2), plus a maximum driving segment (D0), which results from a minimum pulse duration (t0) of the receivers (E1, E2) and a maximum segment speed (v max), a response of the receivers (E1, E2) during passage is preset such that the responses of the receivers (E1, E2) of the receiver pair overlap in the event of increase of the coupling range (D1, D2) due to an error.

IPC 8 full level

B61L 1/14 (2006.01)

CPC (source: EP US)

B61L 1/14 (2013.01 - EP US)

Citation (search report)

See references of WO 2009141251A1

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009141251 A1 20091126; AU 2009249806 A1 20091126; AU 2009249806 B2 20150122; DE 102008025188 A1 20091203; EP 2279107 A1 20110202; EP 2279107 B1 20120815; US 2011127388 A1 20110602; US 8469318 B2 20130625

DOCDB simple family (application)

EP 2009055750 W 20090513; AU 2009249806 A 20090513; DE 102008025188 A 20080523; EP 09749741 A 20090513; US 99428509 A 20090513