Title (en)

DEVICES FOR DETECTING THE OCCUPIED STATE OR FREE STATE OF A TRACK SECTION AND METHOD FOR OPERATING SUCH DEVICES

Title (de)

VORRICHTUNGEN ZUR DETEKTION DES BELEGT- ODER FREIZUSTANDES EINES GLEISABSCHNITTS SOWIE VERFAHREN ZUM BETREIBEN SOLCHER VORRICHTUNGEN

Title (fr)

DISPOSITIFS PERMETTANT DE DÉTECTER SI UN TRONÇON DE VOIE EST LIBRE OU OCCUPÉ ET PROCÉDÉS POUR FAIRE FONCTIONNER DE TELS DISPOSITIFS

Publication

EP 2403745 B1 20161116 (DE)

Application

EP 10708959 A 20100223

Priority

• EP 2010052249 W 20100223
• DE 102009010906 A 20090302

Abstract (en)

[origin: WO2010100055A1] The invention relates to a device (V) for detecting the occupied state or free state of a track section (G) having a transmitter (S) for feeding a transmission signal (SIGS) in the form of an alternating voltage into the running rails (F) of the track section (G) and at least one receiver (E) for receiving a reception signal (SIGE) which is brought about by a transmission of the transmission signal (SIGS) via the running rails (F) of the track section (G). In order to be able to detect faults in the device (V), in particular cable faults, particularly reliably and at the same time cost-effectively, the device (V) according to the invention is designed to determine the phase shift (PHS,E1) between the transmission signal (SIGS) and the reception signal (SIGE). The invention also comprises a further device (V) for detecting the occupied state or free state of a track section (G) as well as a method for operating such devices (V).

IPC 8 full level

B61L 1/18 (2006.01)

CPC (source: EP US)

B61L 1/187 (2013.01 - EP US); B61L 1/188 (2013.01 - EP US)

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

DOCDB simple family (publication)

WO 2010100055 A1 20100910; CN 102341290 A 20120201; CN 102341290 B 20150429; DE 102009010906 A1 20100916; EP 2403745 A1 20120111; EP 2403745 B1 20161116; ES 2616271 T3 20170612; PL 2403745 T3 20170428; PT 2403745 T 20170206; US 2011315828 A1 20111229; US 8613410 B2 20131224

DOCDB simple family (application)

EP 2010052249 W 20100223; CN 201080010068 A 20100223; DE 102009010906 A 20090302; EP 10708959 A 20100223; ES 10708959 T 20100223; PL 10708959 T 20100223; PT 10708959 T 20100223; US 201013254536 A 20100223