

Title (en)
LOCATING OF RAIL VEHICLES

Title (de)
SCHIENENFAHRZEUGORTUNG

Title (fr)
LOCALISATION DE VÉHICULE FERROVIAIRE

Publication
EP 2870048 B1 20160427 (DE)

Application
EP 13745371 A 20130723

Priority
• DE 102012213487 A 20120731
• EP 2013065478 W 20130723

Abstract (en)
[origin: WO2014019889A2] The invention relates to, among other things, a method for operating a locating device (10), which comprises a waveguide (50) laid along a track segment (100) in order to locate a rail vehicle (110) on the track segment (100), wherein in the method, electromagnetic pulses (Pin) are fed into the waveguide (50) in succession and backscattering patterns (Rm1-Rm3) produced by backscattering of the electromagnetic pulse (Pin) are received and evaluated for each emitted pulse. According to the invention, the waveguide (50) has at least one extension section (51-55) along the track segment (100), in which extension section the length of the waveguide (50) is longer than the section of the track segment (100) associated with said extension section (51-55) by an excess length, the backscattering pattern time length of the received backscattering pattern (Rm1-Rm3) is measured, the additional duration of the backscattering pattern (Rm1-Rm3) resulting from the passage through the extension section (51-55) in comparison with the backscattering pattern length before and after the extension section (51-55) is determined, and the additional duration is used to produce an error signal (F) or to calibrate the locating device (10).

IPC 8 full level
B61L 1/04 (2006.01); **B61L 1/14** (2006.01); **B61L 1/16** (2006.01); **B61L 25/02** (2006.01)

CPC (source: EP)
B61L 1/04 (2013.01); **B61L 1/14** (2013.01); **B61L 1/166** (2013.01); **B61L 25/025** (2013.01)

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)
WO 2014019889 A2 20140206; WO 2014019889 A3 20140925; DE 102012213487 A1 20140206; EP 2870048 A2 20150513; EP 2870048 B1 20160427

DOCDB simple family (application)
EP 2013065478 W 20130723; DE 102012213487 A 20120731; EP 13745371 A 20130723