

Title (en)
PROTECTION METHOD AND PROTECTION SYSTEM FOR A RAIL NETWORK

Title (de)
SICHERUNGSVERFAHREN UND SICHERUNGSSYSTEM FÜR EIN GLEISSTRECKENNETZ

Title (fr)
PROCÉDÉ DE SÉCURISATION ET SYSTÈME DE SÉCURISATION D'UN RÉSEAU DE VOIES FERRÉES

Publication
EP 3331745 B1 20200812 (DE)

Application
EP 16766506 A 20160907

Priority
• DE 102015218965 A 20150930
• EP 2016071027 W 20160907

Abstract (en)
[origin: WO2017055033A1] The invention relates to a protection method for a rail network (1) which is divided by track elements (S1, S2,..., Sp) into track sections (G1, G2,..., Gq) and on which vehicles (Z1, Z2,..., Zr) can travel, in which the vehicles (Z1, Z2,..., Zr) request, from selected track elements, steps (B, R, M) for assignment as a route element, and in which each of the selected track elements (Si where i = 1 to p) is respectively automatically assigned as a route element, under predefined conditions, for each vehicle (Zm mit m = 1 to r) which requests the steps for assignment as a route element to it, and outputs an assignment confirmation (QMm, i where m = 1 to r and i = 1 to p) to the respective vehicle. For the sake of better protection of construction work and/or maintenance work in the hazardous area of the rail network there is provision that at least one (S5) of the track elements forms, after its integration into the rail network (1), a working zone (AZ) and does not output the assignment confirmation (QMm, 5 where m = 1 to r) for the respective vehicle (Zm where m = 1 to r) until after the inputting of an assignment release (Fm, 5 where m = 1 to r), wherein the at least one track element (S5) is prepared for release with means (MF5) by means of which the assignment release (Fm, 5 where m = 1 to r) is input manually. The invention also relates to a protection system for a rail network.

IPC 8 full level
B61L 11/08 (2006.01); **B61L 23/06** (2006.01); **B61L 23/08** (2006.01)

CPC (source: EP US)
B61L 11/08 (2013.01 - EP US); **B61L 23/06** (2013.01 - EP US); **B61L 27/20** (2022.01 - US)

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 102015218965 A1 20170330; AU 2016332488 A1 20180419; AU 2016332488 B2 20190221; CN 108290591 A 20180717;
CN 108290591 B 20200828; EP 3331745 A1 20180613; EP 3331745 B1 20200812; ES 2830349 T3 20210603; US 10618535 B2 20200414;
US 2018281832 A1 20181004; WO 2017055033 A1 20170406

DOCDB simple family (application)
DE 102015218965 A 20150930; AU 2016332488 A 20160907; CN 201680069120 A 20160907; EP 16766506 A 20160907;
EP 2016071027 W 20160907; ES 16766506 T 20160907; US 201615764888 A 20160907