

Title (en)

AN APPARATUS AND A METHOD FOR DETECTING DISTURBING METAL OBJECTS AT A RAILWAY TRACK SPOT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DETEKTION VON STÖRENDEN METALLOBJEKTEN AN EINEM PUNKT EINER EISENBAHNSTRECKE

Title (fr)

APPAREIL ET PROCÉDÉ POUR DÉTECTER DES OBJETS MÉTALLIQUES GÉNANTS À UN ENDROIT DE LA VOIE FERRÉE

Publication

EP 4112418 A1 20230104 (EN)

Application

EP 21182125 A 20210628

Priority

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Abstract (en)

An apparatus for detecting presence at a railway track spot (1) of a metal object able to influence an integrity check of on board transmission equipment of a railway vehicle comprises a conducting loop (8) resembling a railway vehicle on board antenna with respect to shape and size and to be placed above the spot in similar relation thereto as a said antenna passing the spot. A member (9) generates an alternating current in the loop (8). Means (10) measures the impedance in the conducting loop and a unit (11) compares the impedance value measured with a predetermined impedance value for a measurement with reference structures according to established standard rules influencing the impedance and consider a detected degree of deviation of said impedance values as a presence of a said metal object at said spot able to influence an integrity check of on board transmission equipment of a railway vehicle.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XI] DE 102012219161 B3 20140320 - BOMBARDIER TRANSP GMBH [DE]
- [A] BE 1022851 A1 20160921 - ERTMS SOLUTIONS SPRL [BE]
- [A] EP 2873585 A1 20150520 - BOMBARDIER TRANSP GMBH [DE]
- [A] ALSTOM ANSALDO ET AL: "ERTMS/ETCS FFFIS for Eurobalise REF : Company Technical Approval Management approval", 17 December 2015 (2015-12-17), XP055647946, Retrieved from the Internet <URL:https://www.era.europa.eu/sites/default/files/filesystem/ertms/ccs_tsi_annex_a-_mandatory_specifications/set_of_specifications_3_etcs_b3_r2_gsm-r_b1/index009_-_subset-036_v310.pdf> [retrieved on 20181023]

Designated contracting state (EPC)

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