

Title (en)
ON-BOARD DETECTION DEVICE FOR A RAILWAY VEHICLE, RAILWAY VEHICLE COMPRISING SUCH DEVICE AND ASSOCIATED RAILWAY SYSTEM

Title (de)
BORDDETEKTIONSVORRICHTUNG FÜR EIN SCHIENENFAHRZEUG, SCHIENENFAHRZEUG MIT SOLCH EINER VORRICHTUNG UND ZUGEHÖRIGES SCHIENENSYSTEM

Title (fr)
DISPOSITIF DE DÉTECTION EMBARQUÉ POUR UN VÉHICULE FERROVIAIRE, VÉHICULE FERROVIAIRE COMPORTANT UN TEL DISPOSITIF ET SYSTÈME FERROVIAIRE ASSOCIÉ

Publication
EP 4194313 A1 20230614 (EN)

Application
EP 22212010 A 20221207

Priority
IN 202141057413 A 20211209

Abstract (en)
The present disclosure relates to an on-board detection device (20) for a railway vehicle (4), the detection device (20) being configured for detecting a start and/or end of a neutral section (N) of a railroad infrastructure (2) on which the railway vehicle (4) is intended to run, a neutral section (N) being a non-powered section of a power line (8) of the railroad infrastructure (2), the detection device (20) comprising a wheel wear database (36) comprising a wear coefficient relative to the wear of wheels (15) of the railway vehicle (4), the detection device (20) furthermore comprising a receiving module (22) configured for receiving a plurality of speed signals of the speed of the railway vehicle (4) from on-board speed sensors (16, 18) of the railway vehicle (4), and at least one reference database (32) comprising start and end positions of the neutral sections (N) of the railroad infrastructure (2).

IPC 8 full level
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CPC (source: EP)
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Citation (search report)

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- [A] US 2004140405 A1 20040722 - MEYER THOMAS J [US]
- [A] EP 3835169 A1 20210616 - ALSTOM TRANSP TECH [FR]
- [Y] MUNIANDI GANESAN ET AL: "Train distance and speed estimation using multi sensor data fusion", IET RADAR SONAR NAVIGATION, THE INSTITUTION OF ENGINEERING AND TECHNOLOGY, UK, vol. 13, no. 4, 1 April 2019 (2019-04-01), pages 664 - 671, XP006084570, ISSN: 1751-8784, DOI: 10.1049/IET-RSN.2018.5359

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BA

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