

Title (en)

TRAIN CONTROL SYSTEM, TRAIN CONTROL DEVICE, AND TRAIN CONTROL METHOD

Title (de)

ZUGSTEUERUNGSSYSTEM, ZUGSTEUERUNGSVORRICHTUNG UND ZUGSTEUERUNGSVERFAHREN

Title (fr)

SYSTÈME DE COMMANDE DE TRAIN, DISPOSITIF DE COMMANDE DE TRAIN ET PROCÉDÉ DE COMMANDE DE TRAIN

Publication

**EP 3976441 A4 20230125 (EN)**

Application

**EP 19930641 A 20190531**

Priority

JP 2019021846 W 20190531

Abstract (en)

[origin: WO2020240862A1] The present invention relates to a train control system in a distributed computing environment. The train control system may include a train control server configured to communicate with one or more trains via a communication network. The train control server may include a parameter management unit configured to select, from a parameter file database, a first set of train parameters based on the first set of train data from the parameter file database, a communication unit configured to transmit the first set of train parameters to the first set of trains and receive a set of parameter setting confirmation data from the first set of trains, and a verification unit configured to verify that the set of parameter setting confirmation data achieves a consistency level with respect to the parameter file database.

IPC 8 full level

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CPC (source: EP)

**B61L 27/40** (2022.01); **B61L 27/20** (2022.01); **B61L 2027/204** (2022.01)

Citation (search report)

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- [A] WO 2017069790 A2 20170427 - GHALY NABIL N [US]
- [A] KARRI RAMESH ET AL: "An Attack Against Message Authentication in the ERTMS Train to Trackside Communication Protocols", PROCEEDINGS OF THE 2017 ACM ON ASIA CONFERENCE ON COMPUTER AND COMMUNICATIONS SECURITY, ASIA CCS '17, 2 April 2017 (2017-04-02), New York, New York, USA, pages 743 - 756, XP093007385, ISBN: 978-1-4503-4944-4, Retrieved from the Internet <URL:https://www.cs.bham.ac.uk/~tpc/Papers/asiaCCS.pdf> DOI: 10.1145/3052973.3053027
- See references of WO 2020240862A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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