

Title (en)

ONBOARD-BASED ELECTRONIC INTERLOCKING SYSTEM AND METHOD THEREFOR FOR INTER-TRAIN CONNECTION-BASED AUTONOMOUS TRAIN CONTROL SYSTEM

Title (de)

BORDBASIERTES ELEKTRONISCHES VERRIEGELUNGSSYSTEM UND VERFAHREN DAFÜR FÜR EIN AUTONOMES ZUGSTEUERUNGSSYSTEM BASIEREND AUF ZWISCHENZUGSVERBINDUNG

Title (fr)

SYSTÈME DE VERROUILLAGE ÉLECTRONIQUE EMBARQUÉ ET PROCÉDÉ ASSOCIÉ DESTINÉS À UN SYSTÈME DE COMMANDE DE TRAIN AUTONOME BASÉ SUR UNE CONNEXION ENTRE TRAINS

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Application

EP 16869387 A 20160803

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Abstract (en)

[origin: EP3299250A1] The present invention relates to a train-centric electronic interlocking system and method for an autonomous train control system based on connection between trains. The train-centric electronic interlocking system is simplified based on the onboard EIS without wayside EIS facilities, whereby installation and maintenance costs of the system can be reduced. A control path can be simplified and can flexibly reply to operational change by providing onboard facilities that were used as wayside facilities in a conventional wayside-centric wireless communications-based train driving safety system.

IPC 8 full level

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Citation (search report)

- [X] EP 1695890 A1 20060830 - HITACHI LTD [JP]
- [A] US 2003169203 A1 20030911 - FRANCKART JEAN-PIERRE [BE]
- [A] EP 2752354 A1 20140709 - NIPPON SIGNAL CO LTD [JP]
- See also references of WO 2018021606A1

Cited by

CN111923967A; EP4159578A4

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