

Title (en)

AUTOMATIC TRAIN PROTECTION SYSTEM AND METHOD

Title (de)

AUTOMATISCHES ZUGSICHERUNGSSYSTEM UND VERFAHREN

Title (fr)

SYSTÈME ET PROCÉDÉ DE PROTECTION DE TRAINS AUTOMATIQUES

Publication

EP 4023526 A4 20231004 (EN)

Application

EP 20871743 A 20200928

Priority

- CN 201910947320 A 20190930
- CN 2020118547 W 20200928

Abstract (en)

[origin: EP4023526A1] Provided in the present invention are an automatic train protection system and method. The automatic train protection system comprises: an allocation unit, connected to operating trains and regional controller computing nodes, configured to receive movement authorization requests transmitted by the operating trains, the movement authorization requests comprising location information of the operating trains, operating information of the operating trains, and feature identifiers of the operating trains, to select regional controller computing nodes for the movement authorization requests, and to transmit the movement authorization requests to the selected regional controller computing nodes. The area controller computing nodes are configured, when selected, to acquire train sorting map information, movement authorization information of other trains, and interlocking information on the basis of the location information and of the feature identifiers, and to generate target movement authorizations. The allocation unit is further configured to transmit the target movement authorizations to the operating trains. The present solution implements the unified management of the operating trains.

IPC 8 full level

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CPC (source: CN EP)

B61L 23/14 (2013.01 - CN); **B61L 27/00** (2013.01 - CN); **B61L 27/20** (2022.01 - EP)

Citation (search report)

- [XA] CN 106627676 A 20170510 - TRAFFIC CONTROL TECH CO LTD
- [A] CN 101927775 A 20101229 - UNIV BEIJING JIAOTONG
- [A] AU 2018282271 A1 20190711 - ALSTOM TRANSP TECH [FR]
- See references of WO 2021063325A1

Designated contracting state (EPC)

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