Title (en)

TRAIN POSITION DETERMINATION AUXILIARY APPARATUS AND OPERATION METHOD THEREFOR

Title (de

HILFSGERÄT ZUR BESTIMMUNG DER ZUGPOSITION UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

APPAREIL AUXILIAIRE DE DÉTERMINATION DE POSITION DE TRAIN ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 4011748 A4 20220629 (EN)

Application

EP 21769044 A 20210629

Priority

- CN 202011108440 A 20201016
- CN 2021102937 W 20210629

Abstract (en)

[origin: WO2022077955A1] The train position determination apparatus in the present invention calculates train position information after power on according to whether a train moves, the movement direction, the movement distance and train position information before power off which are provided by an auxiliary apparatus, and the process of re-determining the train position after the train is powered on is omitted, so that the repowered-on train position determination apparatus can quickly determine the train position, and report the determined train position information to a ground device by means of a vehicle-mounted device in a timely manner, thus the train can quickly receive information, such as driving permission, from the ground device, and the process of re-determining the train position after the train position determination apparatus is powered on is omitted, thereby allowing the train position determination apparatus to come into a normal operation mode in a timely manner, improving the operation efficiency; in addition, the train position determination apparatus performs a validity check on ground information according to the received ground information provided by the auxiliary apparatus, and executes a command contained in the ground information which has passed the validity check, such as a level conversion command and a wireless call command, thereby improving the operation security.

IPC 8 full level

B61L 25/02 (2006.01)

CPC (source: CN EP)

**B61L 25/02** (2013.01 - CN EP)

Citation (search report)

- [Y] CN 109677453 A 20190426 UNITTEC CO LTD
- [Y] DE 102013210018 A1 20141204 SIEMENS AG [DE]
- [Y] WO 2018158712 A1 20180907 THALES CANADA INC [CA]
- [A] WO 2018069033 A1 20180419 SIEMENS AG [DE]
- See references of WO 2022077955A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2022077955 A1 20220421; CN 112356882 A 20210212; CN 112356882 B 20220812; EP 4011748 A1 20220615; EP 4011748 A4 20220629

DOCDB simple family (application)

CN 2021102937 W 20210629; CN 202011108440 A 20201016; EP 21769044 A 20210629