

Title (en)

LEVEL CROSSING SAFETY PROTECTION METHOD AND SYSTEM

Title (de)

SCHUTZVERFAHREN UND -SYSTEM FÜR BAHNÜBERGANGSSICHERHEIT

Title (fr)

PROCÉDÉ ET SYSTÈME DE PROTECTION DE LA SÉCURITÉ DE PASSAGE À NIVEAU

Publication

**EP 4001049 A4 20220921 (EN)**

Application

**EP 21759003 A 20210629**

Priority

- CN 202010998664 A 20200922
- CN 2021102904 W 20210629

Abstract (en)

[origin: WO2022062525A1] A level crossing safety protection method and system. The method comprises: sending a closing command to the level crossing protection system; determining a protection state of a level crossing according to a closing command execution condition, the protection state comprising a protected state or an unprotected state; and obtaining level crossing information, when the protection state is an unprotected state, the level crossing information comprising a parking sign and a level crossing speed limit. According to the parking sign and the level crossing speed limit, a train is parked firstly and then passes through the level crossing, or a train passes through the level crossing without parking. The level crossing safety protection method and system have the following beneficial effects: closing and opening of the level crossing are realized by means of a signal system, the degree of automation is high, a train is correspondingly controlled according to different states of the level crossing to safely pass through the level crossing, and the efficiency of the train passing through the level crossing is improved.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

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- [X1] DE 102007022837 A1 20081113 - SIEMENS AG [DE]
- [X1] KARL SCHNABL ET AL: "Introduction of ETCS Level 2 in Hungary by Thales", SIGNAL + DRAHT., vol. 107, no. 5, 1 May 2015 (2015-05-01), pages 47 - 53, XP001594395
- [A] UNISIG: "ERA \* UNISIG \* EEIG ERTMS USERS GROUP System Requirements Specification Chapter 3 Principles ERTMS/ETCS System Requirements Specification Chapter 3 Principles", 12 May 2014, XP055709049
- See also references of WO 2022062525A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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