

Title (en)
TRAIN SECURITY SYSTEM AND METHOD THEREFOR

Title (de)
ZUGSICHERUNGSSYSTEM UND VERFAHREN DAFÜR

Title (fr)
SYSTÈME DE SÉCURITÉ DE TRAIN ET PROCÉDÉ ASSOCIÉ

Publication
EP 3492335 A4 20200401 (EN)

Application
EP 17834205 A 20170721

Priority
• JP 2016150843 A 20160729
• JP 2017026550 W 20170721

Abstract (en)
[origin: EP3492335A1] This train security system for securely operating trains, is provided with: a ground device for controlling a train; a plurality of axle counters which are arranged side by side in a specific section of a travelling path such that at least one of the axle counters is arranged near each end of the specific section and each of which detects the direction and the number of axles of the train passing nearby; and a plurality of train security devices which are arranged side by side in the specific section such that at least one of the train security devices is arranged near each end of the specific section. One of the train security devices acquires, on the basis of one of the axle counters, the number of axles that have entered the specific section. The other axle counter acquires, on the basis of the other axle counter, the number of axles that have exited from the specific section. One of the train security devices and the other train security device communicate with each other. When one of the train security devices recognizes that the numbers of axles recognized by both the train security devices match with each other and that the number of axles having entered is equal to the number of axles having exited, the train security device can transmit a reset signal to all the axle counters in the specific section.

IPC 8 full level
B61L 1/18 (2006.01); **B61L 1/16** (2006.01)

CPC (source: EP)
B61L 1/16 (2013.01)

Citation (search report)
• [X] DE 19706021 A1 19980813 - SIEMENS AG [DE]
• [A] DE 102012202046 A1 20130814 - SIEMENS AG [DE]
• See references of WO 2018021198A1

Cited by
CN111717237A

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

DOCDB simple family (publication)
EP 3492335 A1 20190605; EP 3492335 A4 20200401; JP 6625751 B2 20200108; JP WO2018021198 A1 20190411;
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