Title (en)

Train stop detection system

Title (de)

Zughalterkennungssystem

Title (fr)

Système de détection de l'arrêt d'un train

Publication

EP 2159129 A2 20100303 (EN)

Application

EP 09252016 A 20090818

Priority

JP 2008218957 A 20080828

Abstract (en)

In the control of a conventional interlocking device and platform screen door, even when a train is actually stopped, the stop of the train cannot be detected until a predetermined allowance time elapses, so that in spite of the fact that a preceding train is stopped, a route for a succeeding train cannot be secured, and thereby the succeeding train is delayed more than needed. A train stop detection system according to the present invention is featured by including: a track circuit 20 which detects that a train is present in a specific section; a non-contact type sensor 3 which detects the speed of the train; a stop detection device which detects the stop of the train on the basis of a train occupancy signal output from the track circuit and the train speed detected by the sensor, and which generates a stop detection signal; and an interlocking device which controls a ground facility on the basis of the stop detection signal, and is featured in that the sensor is positioned before a predetermined train stop position in the train travel direction and is arranged so as to be close to the train.

IPC 8 full level

B61L 25/02 (2006.01)

CPC (source: EP)

B61L 1/163 (2013.01); **B61L 25/025** (2013.01)

Citation (applicant)

- JP H10338135 A 19981222 - MATSUSHITA ELECTRIC IND CO LTD
- JP 2006060434 A 20060302 - FUJITSU LTD

Cited by

WO2017008785A1; EP3042824A1; DE102015116816A1; CN107848543A; WO2015028318A1; WO2016198240A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2159129 A2 20100303; **EP 2159129 A3 20110216**; CN 101659268 A 20100303; EP 2484576 A1 20120808; EP 2484576 B1 20140326; JP 2010052556 A 20100311; JP 5023022 B2 20120912

DOCDB simple family (application)

EP 09252016 A 20090818; CN 200910166255 A 20090820; EP 12166675 A 20090818; JP 2008218957 A 20080828