

Title (en)  
TRAIN CONTROL DEVICE

Title (de)  
ZUGSTEUERUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMANDE DE TRAIN

Publication  
**EP 2857255 A1 20150408 (EN)**

Application  
**EP 13796521 A 20130415**

Priority  
• JP 2012123725 A 20120530  
• JP 2013061229 W 20130415

Abstract (en)  
A train control device in an embodiment of the present invention is provided with the following: a detection unit for detecting the current position and speed of a train provided with the device; a timing unit for tracking the current time; a schedule input unit for inputting schedule data comprising an expected arrival time of the train at each station on a route; and a calculation unit for calculating a travel plan to the next station on the basis of a target travel time found by subtracting the tracked current time from the expected arrival time for the next station, which is included in the inputted schedule data, as well as on the basis of the detected current position, the detected speed, and the operating properties of the train and the route conditions.

IPC 8 full level  
**B61L 3/00** (2006.01); **B61L 3/22** (2006.01); **B61L 15/00** (2006.01); **B61L 25/02** (2006.01); **B61L 27/00** (2006.01)

CPC (source: EP US)  
**B61L 15/0058** (2024.01 - EP US); **B61L 15/0062** (2024.01 - EP US); **B61L 25/021** (2013.01 - EP US); **B61L 25/025** (2013.01 - EP US); **B61L 25/026** (2013.01 - EP US); **B61L 27/12** (2022.01 - US); **B61L 27/14** (2022.01 - EP US); **B61L 3/221** (2013.01 - EP US); **B61L 15/0027** (2013.01 - EP US)

Cited by  
EP3744605B1

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)  
**US 2013325224 A1 20131205**; BR 112014028228 A2 20170627; CN 104379396 A 20150225; CN 104379396 B 20170804; EP 2857255 A1 20150408; EP 2857255 A4 20160622; JP 2013251953 A 20131212; JP 5944229 B2 20160705; WO 2013179790 A1 20131205

DOCDB simple family (application)  
**US 201313903798 A 20130528**; BR 112014028228 A 20130415; CN 201380028205 A 20130415; EP 13796521 A 20130415; JP 2012123725 A 20120530; JP 2013061229 W 20130415