

Title (en)
Derailment detection device and method

Title (de)
Entgleisungserkennungsvorrichtung und -verfahren

Title (fr)
Procédé et dispositif de détection de déraillement

Publication
EP 2253523 A1 20101124 (EN)

Application
EP 09160638 A 20090519

Priority
EP 09160638 A 20090519

Abstract (en)
The present invention relates to a derailment detection device for a rail vehicle (1), comprising a proximity sensor (12) mounted on a track brake (8) and/or a current sensor (11) connected to an axle (14). The present invention also relates to a method for detecting derailment of a rail vehicle (1) from a railway track (7), comprising the steps of monitoring the distance of a track brake (8) of said rail vehicle (1) to a rail surface and/or an electric current flowing through said axle (14); and activating an alarm and/or an emergency brake if said distance is outside a predetermined safe range, and/or said current differs from a set current by more than a predetermined amount.

IPC 8 full level
B61F 9/00 (2006.01)

CPC (source: EP)
B61F 9/005 (2013.01)

Citation (applicant)

- US 6411870 B1 20020625 - SATO KUNIHITO [JP]
- WO 03029059 A1 20030410 - KNORR BREMSE SYSTEME [DE], et al
- WO 0194176 A1 20011213 - SKF IND SPA [IT], et al
- EP 1422119 A1 20040526 - SIEMENS SGP VERKEHRSTECHNIK [AT]

Citation (search report)

- [X] JP 2006199170 A 20060803 - RAILWAY TECHNICAL RES INST
- [XD] EP 1422119 A1 20040526 - SIEMENS SGP VERKEHRSTECHNIK [AT]
- [XA] DE 19827271 A1 19991223 - MUELLER ANDREAS [DE], et al

Cited by
EP2891590A1; CN104035441A; US9132847B2; CN106564384A; EP2431250A3; CN110893867A; WO2017081146A1; FR3014400A1; CN104709309A; RU2667107C2; US9475509B2

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 TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2253523 A1 20101124

DOCDB simple family (application)
EP 09160638 A 20090519