

Title (en)
Derailment detection device and method

Title (de)
Entgleisungserkennungsvorrichtung und -verfahren

Title (fr)
Procédé et dispositif de détection de déraillement

Publication
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Application
EP 09160638 A 20090519

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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)
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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; CN106564384A; CN104035441A; US9132847B2; EP2431250A3; CN110893867A; FR3014400A1; CN104709309A; RU2667107C2; WO2017081146A1; US9475509B2

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