

Title (en)

METHOD AND DEVICE FOR DETERMINING A DIRECTION OF MOTION OF A WHEEL OF A PASSING TRAIN ON A RAIL TRACK

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG EINER BEWEGUNGSRICHTUNG EINES RADES EINES VORBEIFAHRENDEN ZUGES AUF EINEM SCHIENENSTRANG

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTERMINER UNE DIRECTION DE MOUVEMENT D'UNE ROUE D'UN TRAIN PASSANT SUR UNE VOIE FERRÉE

Publication

EP 4151495 A1 20230322 (EN)

Application

EP 21196977 A 20210915

Priority

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Abstract (en)

Method for determining a direction of motion of a wheel of a passing train on a rail track, the method comprising:- sensing, in at least a first and a second direction different from the first direction, a change in a magnetic field value caused by stress exerted on the rail via the wheel of the passing train, wherein the magnetic field value is indicative for a change in a flux density of a magnetic field originating from the rail track, wherein the sensing comprises- obtaining a first signal associated with the wheel comprising a first plurality of the magnetic field values for the first direction for respective times from the magnetic field sensor, and- obtaining a second signal associated with the wheel comprising a second plurality of the magnetic field values for the second direction for respective times from the magnetic field sensor; and- determining the direction of motion of the passing wheel on the basis of the obtained first signal and second signal.

IPC 8 full level

B61L 1/16 (2006.01)

CPC (source: EP)

B61L 1/165 (2013.01)

Citation (applicant)

- US 4524932 A 19850625 - BODZIAK THOMAS A [US]
- US 2007001059 A1 20070104 - APPLEBY GLEN [CA], et al
- WO 2017045888 A1 20170323 - THALES DEUTSCHLAND GMBH [DE]
- WO 2021004800 A1 20210114 - BUILD CONNECTED B V [NL]

Citation (search report)

- [AD] WO 2021004800 A1 20210114 - BUILD CONNECTED B V [NL]
- [A] WO 2021083946 A1 20210506 - BUILD CONNECTED B V [NL]
- [A] EP 1362759 A1 20031119 - SIEMENS AG [DE]
- [A] GB 2563909 A 20190102 - MULTICLIP CO LTD [GB]
- [A] WO 9911497 A1 19990311 - FOSTER CO L B [US], et al
- [A] DE 102014207409 A1 20151022 - SIEMENS AG [DE]

Designated contracting state (EPC)

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