

Title (en)

METHOD FOR CURVE RECOGNITION AND AXLE ALIGNMENT IN RAIL VEHICLES

Title (de)

VERFAHREN ZUR KURVENERKENNUNG UND ACHSAUSRICHTUNG BEI SCHIENENFAHRZEUGEN

Title (fr)

PROCEDE DE RECONNAISSANCE DE COURBES ET D'ALIGNEMENT D'ESSIEUX POUR VEHICULES SUR RAILS

Publication

**EP 1003661 B1 20050105 (DE)**

Application

**EP 99925009 A 19990519**

Priority

- DE 19826451 A 19980613
- EP 9903430 W 19990519

Abstract (en)

[origin: WO9965751A1] The invention relates to a method for measuring the curvature of a track for a running gear for rail vehicles and a method for aligning in a steering manner and in accordance with the curvature of the track an axle of a rail vehicle, which axle is rotationally mounted on a running gear frame. The track curvature is calculated by dividing a yaw velocity by a forward velocity and the wheels are aligned in accordance with a specified steering angle ( $\gamma$ ) which is calculated by multiplying the track curvature ( $\chi$ ) by half the distance ( $b$ ) between the two axles (12, 13) of the running gear (10).

IPC 1-7

**B61F 5/38**

IPC 8 full level

**B61F 5/38** (2006.01)

CPC (source: EP US)

**B61F 5/383** (2013.01 - EP US)

Designated contracting state (EPC)

BE DE DK ES FR GB IT PT SE

DOCDB simple family (publication)

**WO 9965751 A1 19991223**; DE 19861086 A1 20000127; DE 19861086 B4 20040415; DE 59911399 D1 20050210; EP 1003661 A1 20000531; EP 1003661 B1 20050105; EP 1003661 B2 20090916; HU 222388 B1 20030628; HU P0003302 A2 20010228; HU P0003302 A3 20011029; IL 134496 A0 20010430; IL 134496 A 20040219; NO 320337 B1 20051121; NO 995807 D0 19991126; NO 995807 L 19991223; PL 197048 B1 20080229; PL 337851 A1 20000911; US 6571178 B1 20030527

DOCDB simple family (application)

**EP 9903430 W 19990519**; DE 19861086 A 19980613; DE 59911399 T 19990519; EP 99925009 A 19990519; HU P0003302 A 19990519; IL 13449699 A 19990519; NO 995807 A 19991126; PL 33785199 A 19990519; US 48557600 A 20000211