

Title (en)

Method of minimizing the wheel wear of a railway vehicle

Title (de)

Verfahren zur Minimierung des Radverschleisses eines Schienenfahrzeuges

Title (fr)

Procédé pour minimiser l'usure des roues d'un véhicule ferroviaire

Publication

EP 1609691 B1 20090729 (DE)

Application

EP 05450098 A 20050601

Priority

AT 10832004 A 20040624

Abstract (en)

[origin: EP1609691A1] The railway wheel slipping minimization system aims to keep each axle radially aligned when the vehicle (SCH) is negotiating a curve. Several sensors (SE1) transmit data (DAT) to an evaluation circuit (ASW). The computer calculation system may involve fuzzy logic. The evaluation circuit produces a desired value signal (PAO) which is passed to a control circuit (STR) and a regulating circuit (REG). A further sensor (S2) is connected to the regulating circuit. The regulating circuit is connected to a drive or braking system for the individual wheels (ANT). The control circuit is connected to an actuator (STG) for swiveling each individual axle. Calculations may be made using coefficient of friction, vehicle speed and relative speed of separately rotating wheels.

IPC 8 full level

B61F 5/38 (2006.01)

CPC (source: EP)

B61F 5/383 (2013.01)

Cited by

US8485109B2; US11285976B2; WO2008155185A1; EP2371656A1; WO2011120915A1

Designated contracting state (EPC)

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