

Title (en)

Continuous measuring method of the resistance to lateral displacement of a railway track

Title (de)

Verfahren zur kontinuierlichen Messung des Querverschiebewiderstandes eines Gleises

Title (fr)

Méthode de mesure de la résistance aux déplacements latéraux des rails d'une voie ferrée

Publication

EP 0688902 A1 19951227 (DE)

Application

EP 95890093 A 19950512

Priority

AT 120394 A 19940617

Abstract (en)

The measuring system uses an oscillation generator (21) for causing the tested rail track to oscillate in a horizontal direction, transverse to the track longitudinal direction, with measurement of the operating power for the oscillation generator, as an indication of the transverse displacement resistance of the track. Pref. the pressure of the hydraulic operating fluid used to drive the oscillation generator is measured as an indication of the transverse displacement resistance of the track, pref. with auxiliary measurement of the oscillation frequency and/or amplitude, the vertical loading force acting on the oscillation device (12) and/or the displacement rate of the track testing machine. <IMAGE>

Abstract (de)

In einem Verfahren zur kontinuierlichen Messung des Querverschiebewiderstandes eines Gleises, wird das Gleis mit Hilfe eines Schwingungserregers (21) in horizontale, quer zur Gleislängsrichtung verlaufende Schwingungen versetzt. Dabei wird die für den Betrieb des Schwingungserregers (21) erforderliche Leistung als zum Querverschiebewiderstand korrelierender Meßwert registriert. <IMAGE>

IPC 1-7

E01B 27/17; **E01B 35/00**

IPC 8 full level

G01M 5/00 (2006.01); **B61D 15/00** (2006.01); **B61K 9/08** (2006.01); **E01B 27/17** (2006.01); **E01B 27/20** (2006.01); **E01B 35/00** (2006.01); **E01B 35/08** (2006.01); **E01B 35/12** (2006.01); **G01M 7/02** (2006.01)

CPC (source: EP US)

E01B 35/00 (2013.01 - EP US); **E01B 2203/16** (2013.01 - EP US)

Citation (search report)

- [DY] US 5127333 A 19920707 - THEURER JOSEF [AT]
- [Y] ESVELD: "Track stiffness measurements using an adapted tamping machine", RAIL INTERNATIONAL, vol. 11, no. 2, BRUXELLES BE, pages 103 - 113

Cited by

JP2001241946A; CN107938586A; CN104032630A; CN110296804A; AT517771A1; AT517771B1; AT523949A1; AT523949B1; EP2770108A1; AT518195A1; AT518195B1; WO2014127393A1; US9957668B2; US10914040B2; WO2022008151A1; EP2902546B1; EP2902546B2; EP2770108B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0688902 A1 19951227; **EP 0688902 B1 19990922**; AT E184935 T1 19991015; AU 2174795 A 19960104; AU 687185 B2 19980219; CA 2151993 A1 19951218; CA 2151993 C 20041214; CN 1088133 C 20020724; CN 1114994 A 19960117; CZ 151095 A3 19960117; CZ 283590 B6 19980513; DE 59506872 D1 19991028; ES 2139175 T3 20000201; JP 3660716 B2 20050615; JP H082413 A 19960109; PL 176678 B1 19990730; PL 309068 A1 19951227; RU 2105836 C1 19980227; RU 95110059 A 19970527; SK 282733 B6 20021106; SK 79195 A3 19960110; US 5591915 A 19970107

DOCDB simple family (application)

EP 95890093 A 19950512; AT 95890093 T 19950512; AU 2174795 A 19950616; CA 2151993 A 19950616; CN 95107014 A 19950616; CZ 151095 A 19950609; DE 59506872 T 19950512; ES 95890093 T 19950512; JP 15001195 A 19950616; PL 30906895 A 19950609; RU 95110059 A 19950614; SK 79195 A 19950614; US 45826495 A 19950602