Title (en)

AXLE GUIDE

Title (de)

RADSATZLENKER

Title (fr)

GUIDE D'ESSIEU

Publication

EP 1339594 B1 20041006 (DE)

Application

EP 01999503 A 20011201

Priority

- DE 10060408 A 20001205
- EP 0114059 W 20011201

Abstract (en)

[origin: WO0246018A1] The invention relates to an axle guide consisting of a fibre-synthetic material composite for guiding an axle in the running gear of a rail vehicle, in particular a high-speed rail vehicle. Said guide has two end sections (11, 11') for connecting the guide (1) both to the axle and to the chassis (2) of the running gear in a manner resistant to torsion and a central section (12) located therebetween, which has a longitudinal axis (13) aligned with the direction of travel (X) and a cross-section that is at least partially flat in the vertical direction (Z). The guide (1) has at least one integrated flexural joint (14) with a vertical flexural axis (15) and enables a rotational degree of freedom, which protects the wheel bearing from damaging flexural stresses, to be achieved simply without the need for an additional joint component. The inventive guide also benefits from all the advantages of the glass fibre-synthetic material composite, such as adjustable rigidity that can be reproduced with narrow tolerances and that is defined almost independently of the temperature, resistance to wear, electric insulation, excellent material damping properties and favourable behaviour if a malfunction occurs.

IPC 1-7

B61F 5/32

IPC 8 full level

B61F 5/30 (2006.01); **B61F 5/32** (2006.01)

CPC (source: EP US)

B61F 5/325 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0246018 A1 20020613; AT E278587 T1 20041015; CA 2436254 A1 20020613; CA 2436254 C 20100706; DE 10060408 A1 20020606; DE 50104041 D1 20041111; DK 1339594 T3 20050131; EP 1339594 A1 20030903; EP 1339594 B1 20041006; ES 2230397 T3 20050501; JP 2004515405 A 20040527; PT 1339594 E 20041231; US 2004099177 A1 20040527; US 7077066 B2 20060718

DOCDB simple family (application)

EP 0114059 W 20011201; AT 01999503 T 20011201; CA 2436254 A 20011201; DE 10060408 A 20001205; DE 50104041 T 20011201; DK 01999503 T 20011201; EP 01999503 A 20011201; ES 01999503 T 20011201; JP 2002547774 A 20011201; PT 01999503 T 20011201; US 43329804 A 20040106