

Title (en)
AXLE GUIDE

Title (de)
RADSATZLENKER

Title (fr)
GUIDE D'ESSIEU

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Application
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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.

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