

Title (en)
CHASSIS FOR A RAIL VEHICLE

Title (de)
FAHRWERK FÜR EIN SCHIENENFAHRZEUG

Title (fr)
TRAIN DE ROULEMENT D'UN VÉHICULE FERROVIAIRE

Publication
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Application
EP 14808543 A 20141125

Priority
• DE 102013224582 A 20131129
• EP 2014075475 W 20141125

Abstract (en)
[origin: WO2015078839A1] The invention relates to a chassis (1) for a rail vehicle, in particular for a locomotive, said chassis having a chassis frame (2), which is supported at least on a first wheel set (3) and a second wheel set (4), and one triangular link (8) per wheel set (3, 4) on both sides of the chassis for horizontally guiding the axle of the wheel set (3, 4). In the process, an A-arm (8) is hinged to one of two axle bearings (6) of a wheel set (3, 4) by a wheel set-side bearing (9) and to the chassis frame (2) by two frame-side bearings (10). According to the invention, the frame-side bearings (10) have elastomer bushings (11) with a constant longitudinal and transverse rigidity, and the wheel set-side bearings (9) have hydraulic bushings (12) with a constant transverse rigidity and a variable longitudinal rigidity (c). The bearings (9, 10) of each A-arm (8) are arranged on the corners of a respective isosceles triangle which is aligned horizontally, the tip of the triangle forming the wheel set-side bearing (9) and the base of the triangle forming the frame-side bearings (10). In this manner, the conflict of objectives between dynamic running behaviors of the chassis (1) when cornering and the driving stability when traveling straight ahead at a high speed are resolved.

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