

Title (en)

Rail vehicle unit with a rolling support

Title (de)

Schienenfahrzeugeinheit mit einer Wankstütze

Title (fr)

Unité de véhicule ferroviaire avec support de roulement

Publication

EP 2500231 A1 20120919 (EN)

Application

EP 11158510 A 20110316

Priority

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Abstract (en)

The present invention relates to a rail vehicle unit comprising a first vehicle component (104), a second vehicle component (111) and a rolling support device (112), the rolling support device (112) counteracting rolling motion between said first vehicle component (104) and said second vehicle component (111) about a rolling axis. The rolling support device (112) comprises a torsion bar (112.1), a first torsion arm (112.2) and a second torsion arm (112.3). The first torsion arm (112.2) is rotationally rigidly connected to a first end section of the torsion bar (112.1) and is articulated to the first vehicle component (104), while the second torsion arm (112.3) is rotationally rigidly connected to a second end section of the torsion bar (112.1) and is also articulated to the first vehicle component (104). The torsion bar (112.1) is pivotably mounted to the second vehicle component (111) via a first support element (113.1) and a second support element (113.2), the first support element (113.1) and the second support element (113.2) being mutually spaced by a support distance along a longitudinal torsion bar axis (112.6) of the torsion bar (112.1). Furthermore, at least one intermediate element (114.1, 114.2) is provided, the intermediate element (114.1, 114.2) being connected to the second vehicle component (111) and cooperating with the torsion bar (112.1). The intermediate element (114.1, 114.2) is located between the first support element (113.1) and the second support element (113.2).

IPC 8 full level

B61F 5/24 (2006.01)

CPC (source: EP)

B61F 5/24 (2013.01)

Citation (applicant)

- EP 1075407 B1 20011024 - TALBOT GMBH & CO KG [DE], et al
- EP 1915283 A2 20080430 - BOMBARDIER TRANSP GMBH [DE]
- EP 0388999 A2 19900926 - SIG SCHWEIZ INDUSTRIEGES [CH]

Citation (search report)

- [Y] EP 0397291 A2 19901114 - WERKSPoor SERVICES BV [NL]
- [Y] GB 471083 A 19370827 - SIAM

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