

Title (en)

Rack railway vehicle with improved trucks.

Title (de)

Zahnradbahnfahrzeug mit verbessertem Motordrehgestell.

Title (fr)

Véhicule de chemin de fer à crémaillère à bogie de traction.

Publication

**EP 0379735 A2 19900801 (EN)**

Application

**EP 89124058 A 19891228**

Priority

IT 1918089 A 19890125

Abstract (en)

Rack railway vehicle with single-axle trucks, which single axle is integral with two idling wheels borne by it and running on the tracks, and is integral with at least one gear wheel inmeshing with a rack rail, which railway vehicle comprises two equal trucks installed opposite to each other under the flatbed, or load-bearing chassis of the vehicle; wherein each one of said trucks comprises a bridge-shaped structure (2) connected with the flatbed of the vehicle by means of a ball joint (3) and a pair of generally vertical springs (5), positioned at the three vertices of a triangle, with said bridge-shaped structure two electrical motors (9) being connected, which are suitable for transmitting the motion, by means of couplings (10) incorporating a disk brake and two separate speed reduction gears (12), to a gear wheel (17) integral with the wheel axle and inmeshing with said rack rail (18), with said bridge-shaped structure also comprising an emergency brake (24) of the passive-action type with a hydraulic cylinder, equipped with shoes with end pads (25) suitable for self-blocking onto the head of the rail in case of absence of pressure inside said hydraulic cylinder, with said emergency brake being furthermore equipped with derailment-preventing teeth.

IPC 1-7

**B61B 13/02**; **B61C 11/04**; **B61H 5/00**; **B61H 9/00**

IPC 8 full level

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CPC (source: EP)

**B61C 11/04** (2013.01); **B61H 5/00** (2013.01); **B61H 9/00** (2013.01)

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