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⑤4 Rack railway vehicle with improved trucks.

(57) 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.

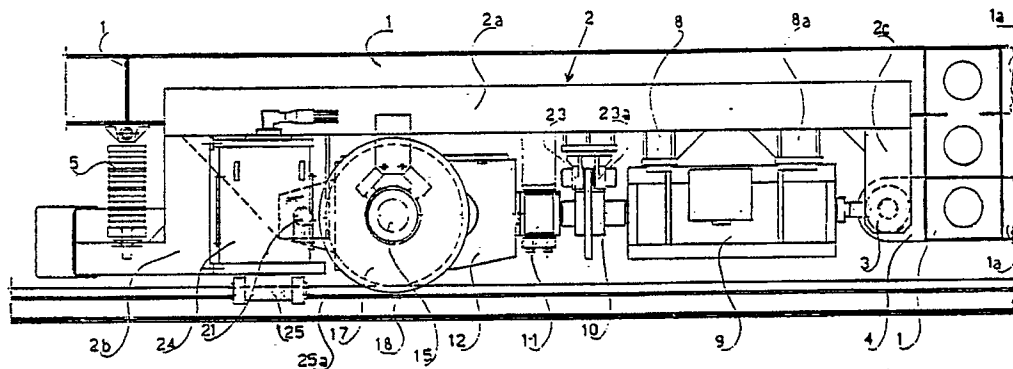


FIG. 1



European
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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	CH-A-4 649 95 (SCHWEIZERISCHE LOKOMOTIV- UND MASCHINENFABRIK) * the whole document * - - -	1	B 61 H 9/00 B 61 C 11/04 B 61 B 13/02 B 61 H 5/00
A	DE-A-2 925 905 (EISENWERK BÖHMER KG) * page 12, line 20 - page 14, line 4; figures 1-8 * - - -	1	
A	CH-A-4 138 92 (SCHWEIZERISCHE LOKOMOTIV- UND MASCHINENFABRIK) - - - - -		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5) B 61 H B 61 C B 61 B
Place of search The Hague		Date of completion of search 13 May 91	Examiner HARTEVELD C.D.H.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document			