

Title (en)
RACK RAILWAY VEHICLE WITH IMPROVED TRUCKS

Publication
EP 0379735 A3 19910710 (EN)

Application
EP 89124058 A 19891228

Priority
IT 1918089 A 19890125

Abstract (en)
[origin: EP0379735A2] 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
B61H 9/00; **B61C 11/04**; **B61B 13/02**; **B61H 5/00**

IPC 8 full level
B61B 13/02 (2006.01); **B61C 11/04** (2006.01); **B61H 5/00** (2006.01); **B61H 9/00** (2006.01)

CPC (source: EP)
B61C 11/04 (2013.01); **B61H 5/00** (2013.01); **B61H 9/00** (2013.01)

Citation (search report)
• [A] CH 464995 A 19681115 - SCHWEIZERISCHE LOKOMOTIV [CH]
• [A] DE 2925905 A1 19810122 - BOEHMER EISENWERK KG
• [A] CH 413892 A 19660531 - SCHWEIZERISCHE LOKOMOTIV [CH]

Cited by
CN109823358A; CN102720821A; CN108725459A; CN114312900A

Designated contracting state (EPC)
AT CH DE FR LI

DOCDB simple family (publication)
EP 0379735 A2 19900801; **EP 0379735 A3 19910710**; **EP 0379735 B1 19931201**; AT E97864 T1 19931215; DE 68911123 D1 19940113; DE 68911123 T2 19940331; IT 1228346 B 19910614; IT 8919180 A0 19890125

DOCDB simple family (application)
EP 89124058 A 19891228; AT 89124058 T 19891228; DE 68911123 T 19891228; IT 1918089 A 19890125