

Title (en)

MAGNETIC RAIL BRAKE DEVICE WITH ASYMMETRIC EXCITATION COILS AND/OR WITH MULTI-PART COILS

Title (de)

MAGNETSCHIENENBREMSVORRICHTUNG MIT ASYMMETRISCHER ERREGERSPULE UND/ODER MIT MEHRTEILIGER SPULE

Title (fr)

DISPOSITIF DE FREINAGE MAGNÉTIQUE SUR RAIL POURVU D'UNE BOBINE D'ÉLECTROAIMANT ASYMÉTRIQUE ET/OU D'UNE BOBINE EN PLUSIEURS PARTIES

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Application

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Abstract (en)

[origin: WO2008116597A2] The invention relates to a magnetic rail brake device of a railway vehicle, comprising at least one brake magnet (2) which is provided with a magnetic coil element (8) that supports the at least one magnetic coil (9), and a horseshoe-shaped magnetic core (6) having a yoke (28) and bearers (42a, 42b) protruding away therefrom. Pole shoes (16a, 16b) are embodied at the ends of the magnetic core which face a vehicle rail (1). The at least one magnetic coil (9) vertically engages the yoke (28) with the upper cover (30) and the lower cover (32) arranged between the bearers (42a, 42b). According to the invention, the cross-section of the at least one magnetic coil (9) in the upper cover (30) is smaller heightwise (h) and wider (b) than the cross-section in the under cover (32). The height (h) of the cross-section of the magnetic coil (9) is measured parallel and the width (b) of the cross-section of the magnetic coil (9) is measured transversally to a vertical central axis (38) of the brake magnet (2).

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