

Title (en)

Railway vehicle with direct drive electric motor.

Title (de)

Elektromotorischer Schienenfahrzeug-Direktantrieb.

Title (fr)

Véhicule ferroviaire avec moteur électrique à entraînement direct.

Publication

**EP 0413337 B1 19940608 (DE)**

Application

**EP 90115713 A 19900816**

Priority

DE 3927311 A 19890818

Abstract (en)

[origin: EP0413337A1] Electric motor direct drive for vehicle wheels, in particular rail vehicle wheels, characterised in that, a) an electronically commutated electric motor (6) is arranged axially next to the wheel (4) to be driven, the rotor (20) of which motor is connected to the wheel (4) to be driven in order to transmit torque, the axes of rotation of the rotor (20) and of the wheel (4) to be driven being at least essentially flush with one another; b) the rotor (20) is constructed as an external rotor of the electric motor (6) without a housing and has annually distributed permanent magnets (50) and c) the stator (30) of the electric motor (6) on the side facing away from the wheel (4) to be driven is held fixed in terms of rotation to the vehicle (2). <IMAGE>

IPC 1-7

**B61C 9/48**; **B61F 3/04**; **B61F 3/16**

IPC 8 full level

**B61C 9/48** (2006.01); **B61F 3/04** (2006.01); **B61F 3/16** (2006.01)

CPC (source: EP)

**B61C 9/48** (2013.01); **B61F 3/04** (2013.01); **B61F 3/16** (2013.01)

Cited by

AT409842B; EP1997707A3; EP0749877A1; DE4223633A1; CN105083297A; EP1239570A1; US5119736A; EP0858149A1; EP1884433A1; EP0870661A1; EP0582563A1; AT401761B; CN106476839A; CZ306771B6; DE10047911A1; EP0883229A1; EP0592901A1; US5509492A; DE4303069C1; EP0609705A1; EP0567445A1; US6868793B2; US6975055B2; EP0865978A1; EP4159574A1; WO2008015282A1; EP0579084B1; EP2848492A1; DE102013014781A1

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**EP 0413337 A1 19910220**; **EP 0413337 B1 19940608**; **EP 0413337 B2 20000209**; AT E106807 T1 19940615; DE 3927311 A1 19910221; DE 59006009 D1 19940714

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