

Title (en)  
DRIVE MECHANISM FOR THE DRIVE AXLES OF RAILWAY VEHICLES

Publication  
**EP 0046135 B1 19850116 (DE)**

Application  
**EP 81730072 A 19810807**

Priority  
DE 3030594 A 19800811

Abstract (en)  
[origin: CA1170910A] In a propulsion unit for the driven axles of an electrically powered rail vehicle, the torque of an electric propulsion motor is transmitted to the respective driven axle by way of a torque transmitting mechanism including gears and couplings. A common housing in the form of a hollow beam is used to enclose the propulsion motor, a bearing system, and a transmission. Cut-outs are provided in the sides of the housing to allow space for the driven axles. In order to increase the flexural and torsional stiffness of the propulsion unit, the hollow beam includes an annular end surface through which the propulsion motor and torque transmitting apparatus are inserted. The hollow beam not only forms a common housing for the propulsion components, but is a very stiff support element that reduces vibration and improves the running behavior of the propulsion unit.

IPC 1-7  
**B61C 9/52**; **B61F 3/04**

IPC 8 full level  
**B61C 9/52** (2006.01); **B61F 3/04** (2006.01)

CPC (source: EP US)  
**B61C 9/52** (2013.01 - EP US); **B61F 3/04** (2013.01 - EP US)

Citation (examination)  
• DE 2325787 B  
• DE 2364594 B2 19761223

Cited by  
EP0085022A1; EP1340661A1; EP1746006A1; EP0144451A3; AT518045A1; AT518045B1

Designated contracting state (EPC)  
AT CH FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0046135 A2 19820217**; **EP 0046135 A3 19820224**; **EP 0046135 B1 19850116**; AT E11255 T1 19850215; CA 1170910 A 19840717; DE 3030594 A1 19820218; DE 3030594 C2 19890615; JP S5760961 A 19820413; US 4461218 A 19840724

DOCDB simple family (application)  
**EP 81730072 A 19810807**; AT 81730072 T 19810807; CA 383547 A 19810810; DE 3030594 A 19800811; JP 12515981 A 19810810; US 29031481 A 19810805