

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

Publication
EP 0046135 A3 19820224 (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.

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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 (search report)
• DE 564510 C 19321119 - WAGGON FABRIK AG
• DE 721772 C 19420617 - BBC BROWN BOVERI & CIE
• CH 460850 A 19680815 - BBC BROWN BOVERI & CIE [CH]
• EP 0024294 A1 19810304 - THYSSEN INDUSTRIE [DE]
• FR 2329492 A1 19770527 - THYSSEN INDUSTRIE [DE]
• FR 2255201 A1 19750718 - BBC BROWN BOVERI & CIE [DE]
• FR 2230532 A1 19741220 - HURTH MASCH ZAHNRAD CARL [DE]
• Elektrische Bahnen, Band 77, Nr. 6, Juni 1979, Seiten 166, 167 E. BECKER et al.: "Die Ersten Lokomotiven der Baureihe 120 der Deutschen Bundesbahn mit Drehstromantrieb wurden ausgeliefert" * Seite 166, 7. Ausblick, Absatz 4 *

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

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