

Title (en)
Variable-wheel-gauge bogie for rolling stock

Title (de)
Drehgestell mit veränderlicher Spurweite für Eisenbahnen

Title (fr)
Bogie avec écartement variable pour matériel roulant

Publication
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Application
EP 96304135 A 19960605

Priority
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Abstract (en)
Axle sleeves (7) are axially slidably mounted on an axle (4) restrained from rotation, and a wheel (8) is supported on a bearing (8) on each axle sleeve (7). A drive motor (10) mounted on each axle sleeve (7) drives the wheel (9) for rotation. A first and a second locking projection are formed on one end portion of each axle sleeve (7), and a locking recess is formed in the inside surface of a journal box (3). The axle sleeve (7) is locked at a position for a narrow rail gauge when the first locking projection is in engagement with the locking recess of the journal box (3) or at a position for a broad rail gauge when the second locking projection is in engagement with the locking recess of the journal box (3). The first or the second locking projection is kept in engagement with the locking recess by the weight of the journal box. A conical locking projection (15A, 15B) and a locking hole (16) are kept in engagement by the weight of a truck frame. A vibration isolating unit (18) for locking projection is fitted in the locking hole (16) to hold elastically the conical locking projection (15A, 15B) as fitted in the locking hole (16). <IMAGE>

IPC 1-7
B61F 7/00

IPC 8 full level
B60B 35/10 (2006.01); **B61F 7/00** (2006.01); **B61H 9/00** (2006.01)

CPC (source: EP)
B61F 7/00 (2013.01); **B61H 9/00** (2013.01)

Citation (search report)
• [XA] EP 0596408 A1 19940511 - KAWASAKI HEAVY IND LTD [JP]
• [A] FR 2383810 A1 19781013 - BULGARSKI DARJAVNI JELESNIZI [BG]
• [A] FR 1239102 A 19600819 - ILSENBURG RADSATZFAB
• [A] US 2813764 A 19571119 - BRITAIN JR RICHARD J

Cited by
CN105216825A; EP2824012A4; ES2492790A1; ES2353086A1; ES2184538A1; CN113008876A; CN107574728A; CN107697094A; EP1065125A1; ES2151871A1; CN107628055A; RU2694422C1; CN102076544A; RU2493991C2; EP3848268A4; EP3778339A4; WO2009133227A3; WO2022219392A1

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