

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B61 RAILWAYS

B61F RAIL VEHICLE SUSPENSIONS, e.g. UNDERFRAMES, BOGIES, ARRANGEMENTS OF WHEEL AXLES; RAIL VEHICLES FOR USE ON TRACKS OF DIFFERENT WIDTH; PREVENTING DERAILING; WHEELS GUARDS; OBSTRUCTION REMOVERS OR THE LIKE (for vehicles in general B60; axles, wheels B60B; vehicle tyres B60C)

Subclass index

FRAMES, RUNNING GEAR

Underframes, bogies, connections therebetween.....1/00, 3/00, 5/00
 For different gauges.....7/00
 For preventing derailment.....9/00
 Track-engaging means other than wheels.....11/00

WHEEL ARRANGEMENTS.....13/00

AXLE-BOXES; FORM, MOUNTING; LUBRICATION THEREOF.....15/00, 5/00, 17/00

WHEEL GUARDS, BUMPERS, OBSTRUCTION REMOVERS.....19/00

SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS.....99/00

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| 1/00 | Underframes (making railway vehicle underframes by forging or pressing B21K 7/12) | 5/16 | • • Centre bearings or other swivel connections between underframes and bolsters or bogies |
| 1/02 | • with a single central sill | 5/18 | • • • King-bolts |
| 1/04 | • of triangulated type | 5/20 | • • • with springs allowing transverse movements |
| 1/06 | • specially adapted for locomotives or motor-driven railcars | 5/22 | • • Guiding of the vehicle underframes with respect to the bogies |
| 1/08 | • Details | 5/24 | • • • Means for damping or minimising the canting, skewing, pitching, or plunging movements of the underframes |
| 1/10 | • • End constructions | 5/26 | • Mounting or securing axle-boxes in vehicle or bogie underframes |
| 1/12 | • • Cross bearers | 5/28 | • • Axle-boxes integral with, or directly secured to, vehicle or bogie underframes |
| 1/14 | • • Attaching or supporting vehicle body structure | 5/30 | • • Axle-boxes mounted for movement under spring control in vehicle or bogie underframes |
| 3/00 | Types of bogies (B61F 5/00 takes precedence) | 5/32 | • • • Guides, e.g. plates, for axle-boxes |
| 3/02 | • with more than one axle | 5/34 | • • • • Wedge mechanisms for adjusting clearance between underframes and axles |
| 3/04 | • • with driven axles or wheels | 5/36 | • • • Arrangements for equalising or adjusting the load on wheels or springs, e.g. yokes |
| 3/06 | • • • with three or more axles | 5/38 | • Arrangements or devices for adjusting or allowing self-adjustment of wheel axles or bogies when rounding curves, e.g. sliding axles, swinging axles |
| 3/08 | • • without driven axles or wheels | 5/40 | • • Bogies with side frames mounted for longitudinal relative movements |
| 3/10 | • • • with three or more axles | 5/42 | • • Adjustment controlled by buffer or coupling gear |
| 3/12 | • specially modified for carrying adjacent vehicle bodies of articulated trains | 5/44 | • • Adjustment controlled by movements of vehicle body |
| 3/14 | • specially modified for reducing air resistance | 5/46 | • • Adjustment controlled by a sliding axle under the same vehicle underframe |
| 3/16 | • with a separate axle for each wheel | 5/48 | • • Trailing or leading bogies for locomotives or motor-driven railcars (B61F 5/40 takes precedence) [2] |
| 5/00 | Constructional details of bogies; Connections between bogies and vehicle underframes; Arrangements or devices for adjusting or allowing self-adjustment of wheel axles or bogies when rounding curves | 5/50 | • Other details |
| 5/02 | • Arrangements permitting limited transverse relative movements between vehicle underframe or bolster and bogie; Connections between underframes and bogies | 5/52 | • • Bogie frames |
| 5/04 | • • Bolster supports or mountings (side bearings B61F 5/14) | 7/00 | Rail vehicles equipped for use on tracks of different width |
| 5/06 | • • • incorporating metal springs | | |
| 5/08 | • • • incorporating rubber springs | | |
| 5/10 | • • • incorporating fluid springs | | |
| 5/12 | • • • incorporating dampers | | |
| 5/14 | • • Side bearings | | |

B61F

- 9/00 Rail vehicles characterised by means for preventing derailling, e.g. by use of guide wheels**
- 11/00 Rail vehicles characterised by rail-engaging elements other than wheels, e.g. balls**
- 13/00 Rail vehicles characterised by wheel arrangements, not otherwise provided for**
- 15/00 Axle-boxes** (mounting or securing axle-boxes B61F 5/26; lubrication B61F 17/00; bearings in general F16C)
- 15/02 • with journal bearings
 - 15/04 • • for locomotives
 - 15/06 • • for cars
 - 15/08 • • the axle being slidable or tiltable in the bearings
 - 15/10 • • • and having springs opposing such movements
 - 15/12 • with roller, needle, or ball bearings
 - 15/14 • • constructed for taking-up axial pressure
 - 15/16 • • the axle being slidable or tiltable in the bearings
 - 15/18 • • • and having springs opposing such movements
 - 15/20 • Details
 - 15/22 • • Sealing means preventing entrance of dust or leakage of oil
 - 15/24 • • • preventing oil leakage when vehicle is tilted or inverted
 - 15/26 • • Covers; Sealing thereof
 - 15/28 • • Axle-boxes modified to ensure electrical conductivity
- 17/00 Lubrication specially adapted for axle-boxes of rail vehicles** (lubrication in general F16N)
- 17/02 • with oil
 - 17/04 • • Lubrication by stationary devices

- 17/06 • • • by means of a wick or the like
 - 17/08 • • • • Devices for pressing the wick or the like against the rotating axle
 - 17/10 • • • by means of an oil bath
 - 17/12 • • • by gravity
 - 17/14 • • Rotating lubricating devices
 - 17/16 • • • with rings
 - 17/18 • • • with chains
 - 17/20 • • • with scoops or the like attached to, or coupled with, the axle
 - 17/22 • • • with discs, rollers, or belts engaging the axle
 - 17/24 • • by built-in lubricating pumps
 - 17/26 • • by external feeding means, e.g. pneumatic devices
 - 17/28 • • Applications of oil cleaners not otherwise provided for
 - 17/30 • with grease
 - 17/32 • • by manually-operated lubricators, e.g. screw cups
 - 17/34 • • by automatic means, e.g. with spring action
 - 17/36 • with other, e.g. mixed, lubricating agents
- 19/00 Wheel guards; Bumpers; Obstruction removers or the like** (for vehicles in general B60R 19/00)
- 19/02 • Wheel guards
 - 19/04 • Bumpers or like collision guards
 - 19/06 • Nets, catchers, or the like for catching obstacles or removing them from the track (mailbag catchers B61K 1/02)
 - 19/08 • • of the drop-down type
 - 19/10 • • • automatically operated by engagement with obstacle
- 99/00 Subject matter not provided for in other groups of this subclass [2006.01]**