SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B61 RAILWAYS

B61C **LOCOMOTIVES; MOTOR RAILCARS** (vehicles in general B60; frames or bogies B61F; special railroad equipment for locomotives B61J, B61K)

Note(s)

This subclass covers:
- general design features or items of locomotives and motor railcars not otherwise provided for;
- non-electric features of electric locomotives.

Subclass index

LOCOMOTIVES AND RAILCARS IN GENERAL
Characterised by motive power:
steam; electric; IC or gas turbine.....1/00, 3/00, 5/00
other.....7/00
Characterised by transmission system.....9/00
Characterised by type of means applying tractive effort.....11/00
LOCOMOTIVES AND RAILCARS FOR PARTICULAR USES.....13/00
DETAILS AND ACCESSORIES
For particular transmission systems.....9/00
For particular propulsion means.....11/00
General and not otherwise provided for.....15/00, 17/00
FILLING STATIONS FOR AIR OR STEAM ACCUMULATORS.....8/00

Locomotives or motor railcars in general or characterised by the type of motive power plant used

1/00 **Steam locomotives or railcars** (characterised by power transmissions B61C 9/00; engines F01; boilers F22B)
1/02 • of articulated construction; with two or more engines (appliances of booster engines B61C 15/02)
1/04 • with steam accumulators (steam accumulators F01K)
1/06 • Streamlining (of coachwork B61D)
1/08 • Arrangement or disposition of combustion apparatus or accessories therefor
1/10 • Arrangement or disposition of steam generators
1/12 • Arrangement or disposition of condensers
1/14 • Arrangement or disposition of exhaust apparatus

3/00 **Electric locomotives or railcars** (characterised by power transmission B61C 9/00; electrical features B60L, H02)
3/02 • with electric accumulators

5/00 **Locomotives or motor railcars with IC engines or gas turbines** (characterised by power transmission B61C 9/00; engines F02)
5/02 • Arrangement or disposition of intakes and apparatus for supplying, circulating, or filtering air for combustion or engine-cooling purposes
5/04 • Arrangement or disposition of exhaust apparatus

7/00 **Other locomotives or motor railcars characterised by the type of motive power plant used; Locomotives or motor railcars with two or more different kinds or types of motive power**
7/02 • Locomotives or motor railcars with pneumatic accumulators
7/04 • Locomotives or motor railcars with two or more different kinds or types of engines, e.g. steam and IC engines

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8/00 **Filling stations for steam- or pneumatic-accumulator locomotives or motor railcars**

9/00 **Locomotives or motor railcars characterised by the type of transmission system used; Transmission systems specially adapted for locomotives or motor railcars** (machine elements F16)
9/02 • Transmission systems in or for locomotives or motor railcars with reciprocating-piston steam engines
9/04 • • consisting of cranked axles and coupling-rods
9/06 • • having toothed, chain, friction, or belt gearing
9/08 • Transmission systems in or for locomotives or motor railcars with IC reciprocating-piston engines
9/10 • • mechanical (combined with hydraulic gearing B61C 9/14)
9/12 • • • with change-speed gearing

9/14 • • hydraulic, including combinations with mechanical gearing
9/16 • • • using gearing of the hydrostatic type
9/18 • • • using gearing of the hydrokinetic type
9/20 • • • • with mechanical change-speed gearing
9/22 • • pneumatic
9/24 • • electric (B61C 9/38 takes precedence)
9/26 • • with transmission shafts at an angle to the driving axles
9/28 • Transmission systems in or for locomotives or motor railcars with rotary prime movers, e.g. turbines
9/30 • • mechanical (combined with hydraulic gearing B61C 9/34)
9/32 • • • with change-speed gearing
9/34 • • hydraulic, including combinations with mechanical gearing
9/36 • • electric (B61C 9/38 takes precedence)
9/38 • Transmission systems in or for locomotives or motor railcars with electric motor propulsion (electrical features B60L, H02)
9/40 • • with cranked axles and coupling-rods
9/42 • • hydraulic
9/44 • • with hollow transmission shaft concentric with wheel axis
9/46 • • with motors forming parts of wheels
9/48 • • with motors supported on vehicle frames and driving axles, e.g. axle or nose suspension
9/50 • • • in bogies
9/52 • • with transmission shafts at an angle to the driving axles

Locomotives or motor railcars characterised by the type of means applying the tractive effort, or by their application to special railway systems or purposes

11/00 Locomotives or motor railcars characterised by the type of means applying the tractive effort; Arrangement or disposition of running gear other than normal driving wheels (construction of wheels B60B)
11/02 • tractive effort applied to cables or chains
11/04 • tractive effort applied to racks
11/06 • tractive effort applied or supplied by aerodynamic force or fluid reaction, e.g. air-screws or jet or rocket propulsion

13/00 Locomotives or motor railcars characterised by their application to special systems or purposes (B61C 11/00 takes precedence; self-propelled scaffold cars, break-down cranes, inspection trolleys B61D 15/00; general design of track recording vehicles B61K 9/00)
13/02 • for towing or transporting ships or for like special purposes
13/04 • for elevated railways with rigid rails (B61C 13/08 takes precedence)
13/06 • for railways with suspended flexible tracks, e.g. rope railways
13/08 • for saddle or like balanced-type railways

Details or accessories not otherwise provided for

15/00 Maintaining or augmenting the starting or braking power by auxiliary devices and measures; Preventing wheel slippage; Controlling distribution of tractive effort between driving wheels (propelling locomotives or motor railcars by special means B61C 11/00; driving wheels with non-slipping devices B60B; brakes B61H; wetting or lubricating rails B61K)
15/02 • by auxiliary driving wheels; by temporary coupling or use of flywheels or booster engines
15/04 • by controlling wheel pressure, e.g. by movable weights or heavy parts or by magnetic devices (magnetic brakes B61H)
15/06 • • by displacing fuel, ballast, or the like
15/08 • Preventing wheel slippage (adjusting wheel-braking force to prevent wheel slippage B60T 8/00)
15/10 • • by depositing sand or like friction-increasing materials (for vehicles in general B60B; combined control of sanding apparatus and brakes B61H)
15/12 • • by reducing the driving power
15/14 • controlling distribution of tractive effort between driving wheels

17/00 Arrangement or disposition of parts; Details or accessories not otherwise provided for; Use of control gear and control systems [2]
17/02 • Bunkers; Tanks; Tenders (coachwork B61D); Water or fuel pick-up or scoop apparatus; Water or fuel supply fittings (trackside installations, e.g. bunkers, tanks, for filling locomotives with sand or water B61K 11/00)
17/04 • Arrangement or disposition of driving cabins, footplates, or engine rooms; Ventilation thereof (driving cabins or accessories B61D)
17/06 • Power storing devices
17/08 • Lubrication systems (in general F16N)
17/10 • Connecting-rods for driving wheels; Arrangements of their bearings (connecting-rods or bearings, in general F16C 7/00, F16C 9/04)
17/12 • Control gear; Arrangements for controlling locomotives from remote points in the train or when operating in multiple units (control from points outside the train B61L 3/00; fluid-actuated telemotors, servomotors F15B; control devices in general G05)