B61D  BODY DETAILS OR KINDS OF RAILWAY VEHICLES  

**WARNING**  
In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Kinds of railway or tramway vehicles

1/00  Carriages for ordinary railway passenger traffic  
  (mine cars B61D 11/00; trams B61D 13/00)  
1/02  General arrangements in sleeping or couchette  
  carriages (B61D 1/08 takes precedence)  
1/04  General arrangements of seats (B61D 1/06  
  takes precedence; seats per se B61D 33/00)  
1/06  with multiple deck arrangement  
1/08  . . . of sleeping carriages  

3/00  Wagons or vans  
  (tank wagons B61D 5/00; hopper  
  wagons B61D 7/00; tipping wagons B61D 9/00;  
  mine cars B61D 11/00; vehicles specially adapted for  
  animal transportation B60P 3/04; { container traffic  
  B65G})  
3/005  . . . {convertible (B61D 3/04, B61D 3/06,  
  B61D 15/04 take precedence)}  
3/02  . . . with multiple deck arrangements (for carrying  
  vehicles B61D 3/18)  
3/04  . . . with movable floors, e.g. rotatable or floors which  
  can be raised or lowered  
3/06  . . . Flat-bottomed cars convertible into hoppers  
3/08  . . . Flat wagons including posts or standards  
  {open loading compartments for load-carrying vehicles,  
  in general B62D 33/02; movable or detachable racks  
  or stanchions B62D 33/0207)}  
3/10  . . . Articulated vehicles  
3/12  . . . comprising running gear interconnected by loads  
3/14  . . . comprising running gear interconnected by load  
  supports facilitating low-level load transport  
3/16  . . . adapted for carrying special loads  
3/163  . . . {for carrying animals}  
3/166  . . . {for carrying very heavy loads}  
3/18  . . . for vehicles {vehicles adapted to carry other  
  vehicles, in general, B60P 3/06)}  
3/181  . . . {with special accommodation for the motor  
  vehicle driver or passengers (B61D 1/06 takes  
  precedence)}  
3/182  . . . {specially adapted for heavy vehicles, e.g.  
  public work vehicles, trucks, trailers}  
3/184  . . . . . . {the heavy vehicles being of the trailer or  
  semi-trailer type}  
3/185  . . . . . . {Railway vehicles}  
3/187  . . . . . . {Details, e.g. bridges for floor connections}  
3/188  . . . . . . {Wheel guides for the vehicles being  
  carried}  
3/20  . . . . . . for forwarding containers  
5/00  Tank wagons for carrying fluent materials  
5/002  . . . {for particulate or powder materials}  
5/004  . . . . . . {with loading and unloading means using fluids  
  or vacuum}  
5/006  . . . . . . {with porous walls}  
5/008  . . . {Trackside means for assisting charge or discharge  
  (for hopper cars B61D 7/32)}  
5/02  . . . having more than one tank  
5/04  . . . {with means for cooling, heating, or insulating}  
5/06  . . . Mounting of tanks; Integral bodies and frames  
5/08  . . . {Covers or access openings; Arrangements thereof}  
7/00  Hopper cars (flat bottomed cars convertible into  
  hoppers B61D 3/06)  
7/02  . . . with discharge openings in the bottoms  
  {with body in two halves and discharge by tipping the  
  halves B61D 9/00)  
7/04  . . . the openings being above axle level during  
  discharge  
7/06  . . . with openings capable of discharging both between  
  and outside the wheels  
7/08  . . . with openings capable of discharging only outside  
  the wheels  
7/10  . . . the discharge being assisted by tipping the bottom  
7/12  . . . the hoppers being movable (B61D 9/00 takes  
  precedence)  
7/14  . . . Adaptsations of hopper elements to railways  
7/16  . . . Closure elements for discharge openings  
7/18  . . . . . . pivoted  
7/20  . . . . . . sliding  
7/22  . . . . . . Sealing means thereof  
7/24  . . . . . . Opening or closing means  
7/26  . . . . . . . mechanical  
7/28  . . . . . . . hydraulic or pneumatic  
7/30  . . . . . . . controlled by means external to cars  
7/32  . . . . . Means for assisting charge or discharge  
9/00  Tipping wagons  
9/02  . . . characterised by operating means for tipping
Kinds of railway or tramway vehicles  
B61D

Body details of railway or tramway vehicles

17/00 Construction details of vehicle bodies (for tank wagons B61D 5/00; for hopper cars B61D 7/00; body details specially adapted for tipping wagons B61D 9/06; for mine cars B61D 11/00)

17/005 . [with bodies characterised by use of plastics materials B61D 17/005 takes precedence; bogie frames comprising parts made from fibre reinforced matrix material B61F 5/523]

17/02 . reducing air resistance by modifying contour [; Constructional features for fast vehicles sustaining sudden variations of atmospheric pressure, e.g. when crossing in tunnels]

17/04 . with bodies of metal; with composite, e.g. metal and wood body structures

17/041 . [with bodies characterised by use of light metal, e.g. aluminium (B61D 17/045 takes precedence)]

17/043 . [connections between superstructure sub-units (for road vehicles B61D 27/000)]

17/045 . [The sub-units being construction modules (modular super-structures for vehicles carrying a large number of passengers B61D 31/025)]

17/046 . [readily releasable, i.e. dismountable or collapsible sub-units, e.g. for shipping (convertible wagons B61D 3/005)]

NOTE

B61D 17/005 takes precedence over
B61D 17/048-B61D 17/16

17/048 . [Interior walls, e.g. separation walls between compartments (B61D 17/06, B61D 17/08, B61D 17/18 take precedence)]
Heating, cooling, ventilating, lighting, or air-conditioning, peculiar to rail vehicles (for vehicles in general B60)

27/00 Heating, cooling, ventilating, or air-conditioning devices

27/009 . . [Means for controlling or equalizing air pressure shocks in trains, e.g. when passing or crossing in tunnels]

27/0018 . . (Air-conditioning means, i.e. combining at least two of the following ways of treating or supplying air, namely heating, cooling or ventilating (air-conditioning in general F24F))

27/0027 . . . (for freight cars; Isothermic wagons)

27/0036 . . . (Means for heating only (heating in general F24))

27/0045 . . . (Electric heating (for vehicles in general B60H 1/2215; supplying electric power to electric heating circuits of electrically-propelled vehicles B60L 1/02))

27/0054 . . . [combined with heating means using recuperated energy from other sources, e.g. from the brakes]

27/0063 . . . (the heat being derived from independent means, i.e. autonomous devices, e.g. stoves)

27/0072 . . . (Means for cooling only (cooling in general F25))

27/0081 . . . (of wagons for transporting refrigerated goods (vehicles for transporting refrigerated goods B60P 3/20))

27/009 . . . (Means for ventilating only (ventilation in general F24F))

29/00 Lighting

Furniture or furnishings peculiar to rail vehicles (for vehicles in general B60)

31/00 Sleeping accommodation

33/00 Seats

33/0007 . . [Details; Accessories]

33/0014 . . . (Seat frames (B61D 33/0092 takes precedence))

33/0021 . . . [for adjustable or reclining seats]

33/0028 . . . [for reversible seats]

33/0035 . . . [Cushions or the like; Covers]

33/0042 . . . [Spring cushions]

33/005 . . . [Head, arm or footrests]

33/0057 . . . [characterised by their mounting in vehicles (B61D 33/0028 and B61D 33/0092 take precedence)]

33/0064 . . . [not adjustably mounted; supports therefor]

33/0071 . . . [Removable seats]

33/0078 . . . [adjustably mounted]

33/0085 . . . [rotatably]

33/0092 . . [Safety seats, e.g. comprising safety locking means; Seats for children]

35/00 Sanitation

35/002 . . . [Washing facilities]

35/005 . . . [Toilet facilities]

35/007 . . . [comprising toilet waste receiving, treatment, storage, disposal or removal devices]

37/00 Other furniture or furnishings

37/003 . . . [luggage rack and umbrella-stand for rail vehicles (luggage racks within vehicle bodies in general, e.g. busses B60R 5/003)]

37/006 . . . [for restaurant cars or the like]

Other details peculiar to rail vehicles (for vehicles in general B60)

39/00 Wagon or like covers; Tarpaulins; Movable or foldable roofs

39/001 . . . [Tiltable roofs]

39/002 . . . [Sliding or folding roofs]

39/003 . . . [telescopic]

39/005 . . . [for articulated wagons]

39/006 . . . [Opening and closing means]

39/007 . . . [Controlled by trackside means (systems for tipping wagons controlled by trackside means B61D 9/14)]

39/008 . . . [Sealing means]

41/00 Indicators for reserved seats; Warning or like signs; Devices or arrangements in connection with tickets, e.g. ticket holders; Holders for cargo tickets or the like

41/02 . . . [Holders or devices for cargo tickets or the like]

41/04 . . . [Indicators for reserved seats]

41/06 . . . [Holders for fare tickets]

43/00 Devices for using the energy of the movements of the vehicles

45/00 Means or devices for securing or supporting the cargo, including protection against shocks (for vehicles in general B60P 7/00)

45/001 . . . [Devices for fixing to walls or floors]

45/002 . . . [Fixing sheet metal, boxes, or the like]

45/003 . . . [Fixing of logs, beams, barrels, pipes, or the like]

45/004 . . . [Fixing semi-trailers (wagons for transporting semi-trailers B61D 3/184)]

45/005 . . . . [by using fifth wheel locks]

45/006 . . . [Fixing by movable walls]

45/007 . . . [Fixing containers (vehicles for transporting containers B61D 3/20)]

45/008 . . . [Shock absorbing devices]

47/00 Loading or unloading devices combined with vehicles, e.g. loading platforms, doors convertible into loading and unloading ramps) (combined with vehicles in general B60P)

47/0005 . . . [Loading or unloading devices combined with road vehicles carrying wagons, e.g. ramps, turntables, lifting means (wagons for carrying road vehicles in general: B61D 3/18)]

49/00 Other details