

**CPC****COOPERATIVE PATENT CLASSIFICATION****B60P****VEHICLES ADAPTED FOR LOAD TRANSPORTATION OR TO TRANSPORT, TO CARRY OR TO COMPRISE SPECIAL LOADS OR OBJECTS** (vehicles with special provisions for invalids [A61G 3/00](#))**NOTE**

Attention is drawn to the Explanatory Note following the class title (B60)

**WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[B60P 1/46](#) covered by [B60P 1/4421](#)  
[B60P 3/022](#) covered by [E04G 21/14](#)  
[B60P 3/325](#) covered by [B60P 3/32](#)  
[B60P 3/33](#) covered by [B60P 3/34](#)  
[B60P 3/335](#) covered by [B60P 3/32](#)  
[B60P 3/345](#) covered by [B60P 3/34](#)  
[B60P 3/35](#) covered by [B60P 3/34](#)  
[B60P 3/355](#) covered by [B60P 3/34](#)  
[B60P 3/363](#) covered by [B60P 3/36](#)  
[B60P 3/367](#) covered by [B60P 3/36](#)  
[B60P 3/37](#) covered by [B60P 3/343](#)  
[B60P 3/373](#) covered by [B60P 3/32](#)  
[B60P 3/377](#) covered by [B60P 3/34](#)  
[B60P 5/00](#) covered by [G01G 19/08](#)

**B60P 1/00**

**Vehicles predominantly for transporting loads and modified to facilitate loading, consolidating the load, or unloading** (vehicles for carrying harvested crops with means for self-loading or self-unloading [A01D 90/00](#); peculiar to refuse collecting-vehicles [B65F](#) ; loading or unloading vehicles by means not incorporated therein [B65G](#) )

**B60P 1/003**

- . {vehicles with loading gates ([B60P 1/43](#) takes precedence) }

**B60P 1/006**

- . {charge and discharge with pusher plates (plates fixed to endless chains or belts [B60P 1/365](#)) }

**B60P 1/02**

- . with parallel up-and-down movement of load supporting or containing element (in combination with tipping [B60P 1/34](#); devices for lifting or lowering bulky or heavy goods for loading or unloading purposes, movable on wheels or the like, e.g. fork-lift trucks, [B66F 9/06](#); {suspensions with electronic levelling control during loading or unloading [B60G 17/015A4](#) })

**B60P 1/022**

- . . {with a loading platform outside the wheels }

**B60P 1/025**

- . . {with a loading platform inside the wheels of a same axle and being lowerable below the axle }

**B60P 1/027**

- . . {with relative displacement of the wheel axles }

**B60P 1/04**

- . with a tipping movement of load-transporting element (dredgers or soil-shifting machines [E02F 3/00](#))

- B60P 1/045 . . {Levelling or stabilising systems for tippers (suspensions with levelling or stabilising means for vehicles in general [B60G 17/00](#), [B60G 21/00](#), using ground-engaging vehicle fittings [B60S 9/00](#)) }
- B60P 1/06 . . actuated by mechanical gearing only
- B60P 1/08 . . . with relative displacement of the wheel axles
- B60P 1/10 . . . with screw and nut
- B60P 1/12 . . . with toothed gears, wheels, or sectors; with links, cams and rollers, or the like
- B60P 1/14 . . . with cables, chains, or the like
- B60P 1/16 . . actuated by fluid-operated mechanisms
- B60P 1/162 . . . {the hydraulic system itself }
- B60P 1/165 . . . {tipping movement about a fore and aft axis }
- B60P 1/167 . . . {three side tipping movement }
- B60P 1/18 . . . with relative displacement of the wheel axles
- B60P 1/20 . . . with toothed gears, wheels, or sectors; with links, cams and rollers, or the like
- B60P 1/22 . . . with cables, chains, or the like
- B60P 1/24 . . using the weight of the load
- B60P 1/26 . . Means for controlling movement of tailboards or sideboards { (Open loading compartments with movable sideboards or tailgates [B62D 33/027](#)) }
- B60P 1/267 . . . Controlling degree of tailboard or sideboard movement in dependence upon degree of tipping movement, e.g. by linkage or cam
- B60P 1/273 . . . Providing interdependence between tipping movement and the latching or unlatching of a freely-swingable tailboard or sideboard
- B60P 1/28 . . Tipping body constructions
- B60P 1/283 . . . {Elements of tipping devices }
- B60P 1/286 . . . . {Loading buckets }
- B60P 1/30 . . in combination with another movement of the element
- B60P 1/32 . . . the other movement being lateral displacement
- B60P 1/34 . . . the other movement being raising or lowering
- B60P 1/36 . . using endless chains or belts thereon
- B60P 1/365 . . {the chains or belts being fixed to a rigid pusher plate (other charging and discharging devices with pusher plates [B60P 1/006](#)) }
- B60P 1/38 . . forming the main load-transporting element or part thereof { ([B60P 1/365](#) takes precedence) }
- B60P 1/40 . . using screw conveyors thereon
- B60P 1/42 . . mounted on the load-transporting element
- B60P 1/43 . . using a loading ramp mounted on the vehicle ([loading ramps per se B65G 69/28](#))
- B60P 1/431 . . {the ramp being stored under the loading floor when not in use }
- B60P 1/433 . . {the loading floor or a part thereof being movable to form the ramp }
- B60P 1/435 . . {the ramp being attached to or making part of the side- or tailboards of the vehicle }
- B60P 1/436 . . {the ramp being used for more than one height of loading floor }
- B60P 1/438 . . {with means for balancing the weight of the ramp between use and non-use position }
- B60P 1/44 . . having a loading platform thereon raising the load to the level of the load-transporting

- element { (Vehicles with special provisions for invalids comprising means for loading or unloading invalid conveyances [A61G 3/02](#)) }
- B60P 1/4407 .. {and lifting achieved by pivoting of the loading platform }
  - B60P 1/4414 .. {and keeping the loading platform parallel to the ground when raising the load }
  - B60P 1/4421 ... {the loading platform being carried in at least one vertical guide }
  - B60P 1/4428 .... {and pivotable in a horizontal plane }
  - B60P 1/4435 ... {the loading platform being suspended by wires, chains or the like from horizontal rails, e.g. the rails forming part of the vehicle floor }
  - B60P 1/4442 ... {the raising device, when not in use, being stored inside the load-transporting compartment }
  - B60P 1/445 ... {the loading platform, when not in use, being stored under the load-transporting surface }
  - B60P 1/4457 .. {Means for immobilising the load or preventing it from rolling off during lifting; Man-rails }
  - B60P 1/4464 .. {Warning signals, e.g. accoustic or visual }
  - B60P 1/4471 .. {General means for controlling movements of the loading platform, e.g. hydraulic systems }
  - B60P 1/4478 ... {Safety stops, switches }
  - B60P 1/4485 .. {Attaching the complete loading platform unit to the vehicle }
  - B60P 1/4492 .. {Design or construction of the moving platform itself }
  
  - B60P 1/48 . using pivoted arms raisable above load-transporting element ( {for refuse collecting vehicles [B65F 3/041](#) }; load engaging elements [B66C 1/00](#) to [B66C 3/00](#) )
  - B60P 1/483 .. {using pivoted arms shifting the load-transporting element in a fore or aft direction }
  - B60P 1/486 .. {using pivoted arms shifting the load-transporting element in a crosswise direction }
  - B60P 1/50 .. loading from in front of the vehicle
  
  - B60P 1/52 . using rollers in the load-transporting element
  
  - B60P 1/54 . using cranes for self-loading or self-unloading (vehicles for transporting cranes [B60P 3/28](#), mobile or traveling cranes [B66C](#) )
  - B60P 1/5404 .. {with a fixed base ([B60P 1/5485](#) takes precedence) }
  - B60P 1/5409 ... {attached to the roof of the vehicle }
  - B60P 1/5414 .... {and having the first pivot on a horizontal axis }
  - B60P 1/5419 .... {and having the first pivot on a vertical axis }
  - B60P 1/5423 ... {attached to the loading platform or similar }
  - B60P 1/5428 .... {and having the first pivot on a horizontal axis }
  - B60P 1/5433 .... {and having the first pivot on a vertical axis }
  - B60P 1/5438 .. {with a moveable base ([B60P 1/5485](#) takes precedence) }
  - B60P 1/5442 ... {attached to the roof of the vehicle }
  - B60P 1/5447 .... {and having the first pivot on a horizontal axis }
  - B60P 1/5452 .... {and having the first pivot on a vertical axis }
  - B60P 1/5457 ... {attached to the loading platform or similar }
  - B60P 1/5461 .... {and having the first pivot on a horizontal axis }
  - B60P 1/5466 .... {and having the first pivot on a vertical axis }

- B60P 1/5471 . . {the crane being detachable from the vehicle }
- B60P 1/5476 . . . {and having a first pivot on a horizontal axis }
- B60P 1/548 . . . {and having a first pivot on a vertical axis }
- B60P 1/5485 . . {with arrangements to fold away the crane out of sight or in order to save space }
- B60P 1/549 . . . {and having a first pivot on a horizontal axis }
- B60P 1/5495 . . . {and having a first pivot on a vertical axis }
  
- B60P 1/56 . the load-transporting element having bottom discharging openings
  
- B60P 1/58 . using vibratory effect
  
- B60P 1/60 . using fluids, e.g. having direct contact between fluid and load { (for railway wagons [B61D 5/004](#)) }
- B60P 1/62 . . with porous walls
  
- B60P 1/64 . the load supporting or containing element being readily removable ( {[B60P 1/48](#) takes precedence } ; caravan, camping, or the like vehicles characterised by living accommodation in the form of a removable body supported by the vehicle unit {[B60P 3/34](#) } )
  
- B60P 1/6409 . . {details, accessories, auxiliary devices }
- B60P 1/6418 . . { the load-transporting element being a container or similar }
- B60P 1/6427 . . . {the load-transporting element being shifted horizontally in a fore and aft direction, combined or not with a vertical displacement }
- B60P 1/6436 . . . {the load-transporting element being shifted horizontally in a crosswise direction, combined or not with a vertical displacement }
- B60P 1/6445 . . . {the load-transporting element being shifted only vertically }
- B60P 1/6454 . . . {the load transporting element being shifted by means of an inclined ramp connected to the vehicle }
- B60P 1/6463 . . . {fitted with articulated beams for longitudinal displacement of the container }
- B60P 1/6472 . . . {fitted with articulated boom load arms for lateral displacement of the container }
- B60P 1/6481 . . . {Specially adapted for carrying different numbers of container or containers of different sizes }
- B60P 1/649 . . . {Guiding means for the load-transporting element }
  
- B60P 3/00** **Vehicles adapted to transport, to carry or to comprise special loads or objects**  
(ambulance aspects, vehicles with special provisions for invalids [A61G 3/00](#); hearses [A61G 21/00](#); fire-fighting land vehicles [A62C 27/00](#); refuse-collecting vehicles [B65F 3/00](#), [B65F 7/00](#); snow-removing vehicles [E01H](#) ; armoured or armed vehicles [F41H 7/00](#); self-propelled mine-clearing vehicles [F41H 11/16](#))
  
- B60P 3/002 . {for carrying glass plates }
- B60P 3/005 . {for use in contaminated areas, e.g. N.B.C. intervention vehicles }
- B60P 3/007 . {for delivery of small articles, e.g. milk, frozen articles }
  
- B60P 3/025 . the object being a shop, cafeteria or display {the object being a theatre or stage } (the object being a workshop [B60P 3/14](#))
- B60P 3/0252 . . {the object being a theater, cinema, auditorium or grandstand }

- B60P 3/0255 . . {the object being a display, i.e. for displaying articles }
- B60P 3/0257 . . {the object being a vending stall, restaurant or food kiosk }
- B60P 3/03 . for transporting money or other valuables
- B60P 3/035 . for transporting reel units
- B60P 3/04 . for transporting animals { (Railway wagons adapted for carrying animals [B61D 3/163](#)) }
- B60P 3/05 . for transporting meat (for transporting refrigerated goods [B60P 3/20](#))
- B60P 3/055 . for transporting bottles
- B60P 3/06 . for carrying vehicles ([B60P 3/12](#) takes precedence; caravans, camping, or like vehicles with vehicle-carrying means {[B60P 3/36](#) })
- B60P 3/062 . . {Especially adapted for carrying tracked vehicles, e.g. public works machinery, battle tanks, snowmobiles }
- B60P 3/064 . . {Especially adapted for carrying non tracked public work, tractor or combat vehicles }
- B60P 3/066 . . {specially adapted for carrying bulky agricultural material, e.g. combines }
- B60P 3/068 . . {Especially adapted for road transportation of railway stock (vehicles for use both on rail and on road [B60F 1/00](#)) }
- B60P 3/07 . . for carrying road vehicles
- B60P 3/071 . . . Arrangement of overturned or on-edge vehicles
- B60P 3/073 . . . Vehicle retainers { (specially adapted for fixing semi-trailers on railway vehicles [B61D 45/004](#)) }
- B60P 3/075 . . . . for wheels, hubs, or axle shafts
- B60P 3/077 . . . . . Wheel cradles, chocks, or wells
- B60P 3/079 . . . . Tie-down retainers ([B60P 3/075](#) takes precedence)
- B60P 3/08 . . Multilevel-deck construction carrying vehicles
- B60P 3/10 . . for carrying boats; { (for carrying sailboards [B60R 9/08](#), [B63B 35/7946](#); equipment forming part of or attachable to vessels facilitating transport over land, e.g. wheel units, towing units, [B63C 13/00](#)) }
- B60P 3/1008 . . . {on the vehicle roof }
- B60P 3/1016 . . . . {with the boat or boat-supporting frame pivoting around a horizontal axis when loading on the roof }
- B60P 3/1025 . . . . {with a sliding or rolling main movement of the boat or boat-supporting frame when loading on the roof }
- B60P 3/1033 . . . {on a loading frame, e.g. the vehicle being a trailer ([B60P 3/1008](#) takes precedence) }
- B60P 3/1041 . . . . {comprising a shelter or boat protection, e.g. usable as a camper }
- B60P 3/105 . . . . {using a trailer convertible into a multipurpose trailer }
- B60P 3/1058 . . . . {with the boat carried on or attached to a sliding subframe on the vehicle frame }
- B60P 3/1066 . . . . {Arrangement of supports, rollers or winches on the vehicle }
- B60P 3/1075 . . . . {Guiding means for loading the boat (using rollers [B60P 3/20F8](#)) }
- B60P 3/1083 . . . . {Means for extending the drawbar; Dollies and skidplates for the tow hitch }

- B60P 3/1091 . . . {by suspending the boat, e.g. straddle trucks or trailers }
- B60P 3/11 . . for carrying aircraft
  
- B60P 3/12 . for salvaging damaged vehicles
- B60P 3/122 . . {by supporting the whole vehicle }
- B60P 3/125 . . {by supporting only part of the vehicle, e.g. front- or rear-axle }
- B60P 3/127 . . . {on a tow dolly }
  
- B60P 3/14 . the object being a workshop for servicing, for maintenance, or for carrying workmen during work (lifting devices for movable platforms or cabins for workmen [B66F 11/04](#))
  
- B60P 3/16 . for carrying mixed concrete, e.g. having rotatable drums { (concrete-mixing apparatus specially adapted for being mounted on vehicles with provision for mixing during transport [B28C 5/42](#)) }
  
- B60P 3/18 . the object being a searchlight { (mounting of cameras operating during drive [B60R 11/04](#)) }
  
- B60P 3/20 . Refrigerated goods vehicles (air treatment of goods space [B60H](#) ; {air-conditioning means for freight cars, isothermic wagons [B61D 27/0027](#); superstructures for refrigerated goods vehicles [B62D 33/048](#) })
  
- B60P 3/205 . . {with means for dividing the interior volume, e.g. movable walls or intermediate floors }
  
- B60P 3/22 . Tank vehicles ( {vehicles convertible from transport of fluids to transport of other types of goods [B60P 3/426](#) }; tank aspects [B65D 86/00](#), [B65D 90/00](#), [F17C](#) )
- B60P 3/2205 . . {Constructional features }
- B60P 3/221 . . . {Assembling, e.g. layout of steel plates or reinforcing arrangements }
- B60P 3/2215 . . . {Mounting of tanks to vehicles }
- B60P 3/222 . . . . {including resilient means }
- B60P 3/2225 . . . {the tank being part of the vehicle frame }
- B60P 3/223 . . . {the tank itself rolling on the ground }
- B60P 3/2235 . . . {Anti-slosh arrangements (for tank containers [B65D 90/52](#)) }
- B60P 3/224 . . {comprising auxiliary devices, e.g. for unloading or level indicating (catwalks, ladders or safety railings therefor [B60R 3/005](#)) }
- B60P 3/2245 . . . {Adaptations for loading or unloading }
- B60P 3/225 . . . {Adaptations for pumps or valves }
- B60P 3/2255 . . . {Ventilating arrangements }
- B60P 3/226 . . . {Arrangements of access openings or covers therefor }
- B60P 3/2265 . . . {Arrangements for hoses, tubes, or reels }
- B60P 3/227 . . . {Methods for tracing the load (for tracing the vehicle [C08G 1/123](#)) }
- B60P 3/2275 . . . {Prevention of electrostatic electricity }
- B60P 3/228 . . . {Measuring or indicating means, e.g. of level, volume, weight }
- B60P 3/2285 . . . {Warning or prevention means against tilting }
- B60P 3/229 . . . {Anti-theft means (for vehicles [B60R 25/00](#)) }
- B60P 3/2295 . . {Means for heating, cooling, or insulating tanks or equipments (for tank containers [B65D 88/748](#)) }

- B60P 3/24 . . . compartmented
- B60P 3/243 . . . {divided by rigid walls }
- B60P 3/246 . . . {divided by flexible walls }
- B60P 3/28 . for transporting cranes (vehicles using cranes for self-loading or self-unloading [B60P 1/54](#); mobile or travelling cranes [B66C](#) )
- B60P 3/30 . Spraying vehicles (sprinkling-wagons for fertilising liquid [A01C 23/00](#); for destruction of noxious animals, vermin, or unwanted vegetation [A01M](#) ; { vehicle-mounted spraying installations for de-icing aircraft [B64F 5/0063](#); } for spraying asphalt, bitumen, tar, or the like [E01C](#) ; for cleaning streets [E01H](#) )
- B60P 3/32 . comprising living accommodation for people, e.g. caravans, camping, or like vehicles (tents or canopies, in general [E04H 15/00](#))
- B60P 3/34 . . the living accommodation being expansible, collapsible or capable of rearrangement ( {[B60P 3/38](#) } takes precedence; tents supported at least partially by vehicles [E04H 15/06](#))
- B60P 3/341 . . . {comprising flexible elements }
- B60P 3/343 . . . . {Hoods for caravans }
- B60P 3/36 . . Auxiliary arrangements; Arrangements of living accommodation (toilet or washing arrangements [B60R 15/00](#)) ; Details
- B60P 3/38 . . . Sleeping arrangements, {e.g. living or sleeping accommodation on the roof of the vehicle }
- B60P 3/39 . . . . expansible, collapsible or repositionable elements adapted to support a bed, e.g. wall portions
- B60P 3/40 . for carrying long loads, e.g. with separate wheeled load supporting elements ( {[E04G 21/14](#) takes precedence } ; signal devices to be attached to overhanging load [B60Q 7/02](#))
- B60P 3/41 . . for log transport
- B60P 3/42 . convertible from one use to a different one (vehicles capable of travelling in or on different media, rail-and-road vehicles [B60F](#) )
- B60P 3/423 . . {from transport of persons to transport of goods }
- B60P 3/426 . . {from transport of fluids to transport of other types of goods }
- B60P 7/00** **Securing or covering of load on vehicles** ( {immobilising the load during lifting a loading platform [B60P 1/4457](#) } ; for railway vehicles [B61D 45/00](#))
- B60P 7/02 . Covering of load
- B60P 7/04 . . by tarpaulins or like flexible members
- B60P 7/06 . Securing of load (vehicle retainers [B60P 3/073](#))
- B60P 7/065 . . {by pressurizing or creating a vacuum in a bag, cover or the like }
- B60P 7/08 . . securing to the vehicle floor or sides ( {[B60P 7/065](#) } , [B60P 7/13](#) , [B60P 7/135](#) take precedence)
- B60P 7/0807 . . . {Attachment points }
- B60P 7/0815 . . . . {Attachment rails or trellis }
- B60P 7/0823 . . . {Straps; Tighteners }



B60P 7/083	....	{Tensioning by repetetive movement of an actuating member }
B60P 7/0838	....	{Tensioning by single movement of an actuating member }
B60P 7/0846	....	{ winding up or storing of straps }
B60P 7/0853	....	{Tools for manipulating straps or tighteners }
B60P 7/0861	....	{ Measuring or identifying the tension in the securing element }
B60P 7/0869	....	{ Protecting the strap or the load from wear }
B60P 7/0876	...	{using restraining net or tarpaulin in contact with the load }
B60P 7/0884	...	{by increasing the friction between the load and the surface }
B60P 7/0892	...	{by preventing lateral movement of the load, e.g. using stop blocks }
B60P 7/10	...	the load being plates, cases, or boxes
B60P 7/12	...	the load being tree-trunks, beams, drums, tubes, or the like
B60P 7/13	..	Securing freight containers or forwarding containers on vehicles
B60P 7/132	...	{twist-locks for containers or frames }
B60P 7/135	..	Securing or supporting by load bracing means
B60P 7/14	...	the load bracing means comprising a movable bulkhead
B60P 7/15	...	the load bracing means comprising a movable bar
B60P 7/16	..	Protecting against shocks { ( <a href="#">B60P 7/065</a> takes precedence) }
B60P 7/18	...	Protecting freight containers or forwarding containers
<b>B60P 9/00</b>		<b>Other vehicles predominantly for carrying loads, {e.g. load carrying vehicles convertible for an intended purpose }</b>