

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:

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| 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 [B65E](#); 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 17/0157](#))}

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](#))

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| 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 3/1066)} |
| 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 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 }
- 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 repetitive 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}

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| 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 {(B60P 7/065 takes precedence)} |
| B60P 7/18 | ... | Protecting freight containers or forwarding containers |
| B60P 9/00 | | Other vehicles predominantly for carrying loads, {e.g. load carrying vehicles convertible for an intended purpose} |