

**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:

<a href="#">B60P 1/46</a>	covered by <a href="#">B60P 1/4421</a>
<a href="#">B60P 3/022</a>	covered by <a href="#">E04G 21/14</a>
<a href="#">B60P 3/325</a>	covered by <a href="#">B60P 3/32</a>
<a href="#">B60P 3/33</a>	covered by <a href="#">B60P 3/34</a>
<a href="#">B60P 3/335</a>	covered by <a href="#">B60P 3/32</a>
<a href="#">B60P 3/345</a>	covered by <a href="#">B60P 3/34</a>
<a href="#">B60P 3/35</a>	covered by <a href="#">B60P 3/34</a>
<a href="#">B60P 3/355</a>	covered by <a href="#">B60P 3/34</a>
<a href="#">B60P 3/363</a>	covered by <a href="#">B60P 3/36</a>
<a href="#">B60P 3/367</a>	covered by <a href="#">B60P 3/36</a>
<a href="#">B60P 3/37</a>	covered by <a href="#">B60P 3/343</a>
<a href="#">B60P 3/373</a>	covered by <a href="#">B60P 3/32</a>
<a href="#">B60P 3/377</a>	covered by <a href="#">B60P 3/34</a>
<a href="#">B60P 5/00</a>	covered by <a href="#">G01G 19/08</a>

**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](#))
- 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 <a href="#">B61D 3/163</a> )}
B60P 3/05	.	for transporting meat (for transporting refrigerated goods <a href="#">B60P 3/20</a> )
B60P 3/055	.	for transporting bottles
B60P 3/06	.	for carrying vehicles ( <a href="#">B60P 3/12</a> takes precedence; caravans, camping, or like vehicles with vehicle-carrying means { <a href="#">B60P 3/36</a> })
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 <a href="#">B60F 1/00</a> )}
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 <a href="#">B61D 45/004</a> )}
B60P 3/075	....	for wheels, hubs, or axle shafts
B60P 3/077	.....	Wheel cradles, chocks, or wells
B60P 3/079	....	Tie-down retainers ( <a href="#">B60P 3/075</a> takes precedence)
B60P 3/08	..	Multilevel-deck construction carrying vehicles
B60P 3/10	..	for carrying boats; {(for carrying sailboards <a href="#">B60R 9/08</a> , <a href="#">B63B 35/7946</a> ; equipment forming part of or attachable to vessels facilitating transport over land, e.g. wheel units, towing units, <a href="#">B63C 13/00</a> )}
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 ( <a href="#">B60P 3/1008</a> 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 <a href="#">B60P 3/1066</a> )}
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}



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
<b>B60P 9/00</b>		<b>Other vehicles predominantly for carrying loads, {e.g. load carrying vehicles convertible for an intended purpose}</b>