

ECLA**EUROPEAN 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 [A61G3/00](#)) [C9602]

[N: **WARNING**
[C0503]

- 1.
2. The following IPC groups are not used in the internal ECLA classification scheme. Subject matter covered by these groups is classified in the following ECLA groups:

B60P1/46	covered by B60P1/44D1
B60P3/022	covered by E04G21/14
B60P3/325	covered by B60P3/32
B60P3/33	covered by B60P3/34
B60P3/335	covered by B60P3/32
B60P3/345	covered by B60P3/34
B60P3/35	covered by B60P3/34
B60P3/355	covered by B60P3/34
B60P3/363	covered by B60P3/36
B60P3/367	covered by B60P3/36
B60P3/37	covered by B60P3/34B1
B60P3/373	covered by B60P3/32
B60P3/377	covered by B60P3/34
B60P5/00	covered by G01G19/08

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Note

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

B60P1/00

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 [A01D90/00](#); peculiar to refuse collecting-vehicles [B65F](#); loading or unloading vehicles by means not incorporated therein [B65G](#))

B60P1/00B

- [N: vehicles with loading gates ([B60P1/43](#) takes precedence)] [C9602]

B60P1/00F

- [N: charge and discharge with pusher plates (plates fixed to endless chains or belts [B60P1/36B](#))]

B60P1/02

- with parallel up-and-down movement of load supporting or containing element (in combination with tipping [B60P1/34](#); 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, [B66F9/06](#); [N: suspensions with electronic levelling control during loading or unloading [B60G17/015A4](#)]) [C9511]

B60P1/02B

- • [N: with a loading platform outside the wheels]

B60P1/02C

- • [N: with a loading platform inside the wheels of a same axle and being lowerable below the axle]

B60P1/02D

- • [N: with relative displacement of the wheel axles]

B60P1/04

- with a tipping movement of load-transporting element (dredgers or soil-shifting machines [E02F3/00](#))

- B60P1/04B . . [N: Levelling or stabilising systems for tippers (suspensions with levelling or stabilising means for vehicles in general [B60G17/00](#), [B60G21/00](#), using ground-engaging vehicle fittings [B60S9/00](#))] [N9607]
- B60P1/06 . . actuated by mechanical gearing only
- B60P1/08 . . . with relative displacement of the wheel axles
- B60P1/10 . . . with screw and nut
- B60P1/12 . . . with toothed gears, wheels, or sectors; with links, cams and rollers, or the like
- B60P1/14 . . . with cables, chains, or the like
- B60P1/16 . . actuated by fluid-operated mechanisms
- B60P1/16B . . . [N: the hydraulic system itself]
- B60P1/16C . . . [N: tipping movement about a fore and aft axis]
- B60P1/16D . . . [N: three side tipping movement]
- B60P1/18 . . . with relative displacement of the wheel axles
- B60P1/20 . . . with toothed gears, wheels, or sectors; with links, cams and rollers, or the like
- B60P1/22 . . . with cables, chains, or the like
- B60P1/24 . . using the weight of the load
- B60P1/26 . . Means for controlling movement of tailboards or sideboards [N: (Open loading compartments with movable sideboards or tailgates [B62D33/027](#))] [C9504]
- B60P1/267 . . . Controlling degree of tailboard or sideboard movement in dependence upon degree of tipping movement, e.g. by linkage or cam
- B60P1/273 . . . Providing interdependence between tipping movement and the latching or unlatching of a freely-swingable tailboard or sideboard
- B60P1/28 . . Tipping body constructions
- B60P1/28B . . . [N: Elements of tipping devices]
- B60P1/28B2 [N: Loading buckets] [N0209]
- B60P1/30 . . in combination with another movement of the element
- B60P1/32 . . . the other movement being lateral displacement
- B60P1/34 . . . the other movement being raising or lowering
- B60P1/36 . . using endless chains or belts thereon
- B60P1/36B . . [N: the chains or belts being fixed to a rigid pusher plate (other charging and discharging devices with pusher plates [B60P1/00F](#))] [N9708]
- B60P1/38 . . forming the main load-transporting element or part thereof [N: ([B60P1/36B](#) takes precedence)] [C9708]
- B60P1/40 . . using screw conveyors thereon
- B60P1/42 . . mounted on the load-transporting element
- B60P1/43 . . using a loading ramp mounted on the vehicle (loading ramps per se [B65G69/28](#)) [N9602]
- B60P1/43A . . [N: the ramp being stored under the loading floor when not in use] [N9710]
- B60P1/43C . . [N: the loading floor or a part thereof being movable to form the ramp] [N9710]
- B60P1/43E . . [N: the ramp being attached to or making part of the side- or tailboards of the vehicle] [N9710]
- B60P1/43G . . [N: the ramp being used for more than one height of loading floor] [N9710]
- B60P1/43K . . [N: with means for balancing the weight of the ramp between use and non-use]

position] [N9710]

- B60P1/44
 - having a loading platform thereon raising the load to the level of the load-transporting element [N: (Vehicles with special provisions for invalids comprising means for loading or unloading invalid conveyances [A61G3/02](#))]
- B60P1/44A
 - · [N: and lifting achieved by pivoting of the loading platform] [N9612]
- B60P1/44D
 - · [N: and keeping the loading platform parallel to the ground when raising the load] [N9612]
- B60P1/44D1
 - · · [N: the loading platform being carried in at least one vertical guide] [N9612]
- B60P1/44D1A
 - · · · [N: and pivotable in a horizontal plane] [N9612]
- B60P1/44D3
 - · · [N: the loading platform being suspended by wires, chains or the like from horizontal rails, e.g. the rails forming part of the vehicle floor] [N9612]
- B60P1/44D6
 - · · [N: the raising device, when not in use, being stored inside the load-transporting compartment] [N9612]
- B60P1/44D7
 - · · [N: the loading platform, when not in use, being stored under the load-transporting surface] [N9612]
- B60P1/44G
 - · [N: Means for immobilising the load or preventing it from rolling off during lifting; Man-rails] [N9612]
- B60P1/44K
 - · [N: Warning signals, e.g. accoustic or visual] [N9612]
- B60P1/44M
 - · [N: General means for controlling movements of the loading platform, e.g. hydraulic systems] [N9612] [C0110]
- B60P1/44M2
 - · · [N: Safety stops, switches] [N0110]
- B60P1/44R
 - · [N: Attaching the complete loading platform unit to the vehicle] [N9612]
- B60P1/44T
 - · [N: Design or construction of the moving platform itself] [N9612]
- B60P1/48
 - using pivoted arms raisable above load-transporting element ([N: for refuse collecting vehicles [B65F3/04A](#)]; load engaging elements [B66C1/00](#) to [B66C3/00](#)) [C9602]
- B60P1/48C
 - · [N: using pivoted arms shifting the load-transporting element in a fore or aft direction]
- B60P1/48D
 - · [N: using pivoted arms shifting the load-transporting element in a crosswise direction]
- B60P1/50
 - · loading from in front of the vehicle [C9602]
- B60P1/52
 - using rollers in the load-transporting element
- B60P1/54
 - using cranes for self-loading or self-unloading (vehicles for transporting cranes [B60P3/28](#), mobile or traveling cranes [B66C](#)) [C9602]
- B60P1/54A
 - · [N: with a fixed base ([B60P1/54D](#) takes precedence)] [N0202]
- B60P1/54A2
 - · · [N: attached to the roof of the vehicle] [N0202]
- B60P1/54A2A
 - · · · [N: and having the first pivot on a horizontal axis] [N0202]
- B60P1/54A2B
 - · · · [N: and having the first pivot on a vertical axis] [N0202]
- B60P1/54A4
 - · · [N: attached to the loading platform or similar] [N0202]
- B60P1/54A4A
 - · · · [N: and having the first pivot on a horizontal axis] [N0202]
- B60P1/54A4B
 - · · · [N: and having the first pivot on a vertical axis] [N0202]
- B60P1/54B
 - · [N: with a moveable base ([B60P1/54D](#) takes precedence)] [N0202]
- B60P1/54B2
 - · · [N: attached to the roof of the vehicle] [N0202]
- B60P1/54B2A
 - · · · [N: and having the first pivot on a horizontal axis] [N0202]

B60P1/54B2B [N: and having the first pivot on a vertical axis] [N0202]
B60P1/54B4 [N: attached to the loading platform or similar] [N0202]
B60P1/54B4A [N: and having the first pivot on a horizontal axis] [N0202]
B60P1/54B4B [N: and having the first pivot on a vertical axis] [N0202]
B60P1/54C	. . [N: the crane being detachable from the vehicle] [N0202]
B60P1/54C2	. . . [N: and having a first pivot on a horizontal axis] [N0202]
B60P1/54C4	. . . [N: and having a first pivot on a vertical axis] [N0202]
B60P1/54D	. . [N: with arrangements to fold away the crane out of sight or in order to save space] [N0202]
B60P1/54D2	. . . [N: and having a first pivot on a horizontal axis] [N0202]
B60P1/54D4	. . . [N: and having a first pivot on a vertical axis] [N0202]
B60P1/56	. the load-transporting element having bottom discharging openings
B60P1/58	. using vibratory effect
B60P1/60	. using fluids, e.g. having direct contact between fluid and load [N: (for railway wagons B61D5/00B2)]
B60P1/62	. . with porous walls
B60P1/64	. the load supporting or containing element being readily removable ([N: B60P1/48 takes precedence]; caravan, camping, or the like vehicles characterised by living accommodation in the form of a removable body supported by the vehicle unit [N: B60P3/34]) [C9602]
B60P1/64B	. . [N: details, accessories, auxiliary devices]
B60P1/64C	. . [N: the load-transporting element being a container or similar]
B60P1/64C1	. . . [N: the load-transporting element being shifted horizontally in a fore and aft direction, combined or not with a vertical displacement]
B60P1/64C2	. . . [N: the load-transporting element being shifted horizontally in a crosswise direction, combined or not with a vertical displacement]
B60P1/64C3	. . . [N: the load-transporting element being shifted only vertically]
B60P1/64C4	. . . [N: the load transporting element being shifted by means of an inclined ramp connected to the vehicle]
B60P1/64C5	. . . [N: fitted with articulated beams for longitudinal displacement of the container]
B60P1/64C6	. . . [N: fitted with articulated boom load arms for lateral displacement of the container]
B60P1/64C7	. . . [N: Specially adapted for carrying different numbers of container or containers of different sizes]
B60P1/64C9	. . . [N: Guiding means for the load-transporting element] [N9807]
B60P3/00	Vehicles adapted to transport, to carry or to comprise special loads or objects (ambulance aspects, vehicles with special provisions for invalids A61G3/00 ; hearses A61G21/00 ; fire-fighting land vehicles A62C27/00 ; refuse-collecting vehicles B65F3/00 , B65F7/00 ; snow-removing vehicles E01H ; armoured or armed vehicles F41H7/00 ; self-propelled mine-clearing vehicles F41H11/16) [C9602]
B60P3/00B	. [N: for carrying glass plates]
B60P3/00C	. [N: for use in contaminated areas, e.g. N.B.C. intervention vehicles]

- B60P3/00D . [N: for delivery of small articles, e.g. milk, frozen articles] [N0311]
- B60P3/025 . the object being a shop, cafeteria or display [N: the object being a theatre or stage] (the object being a workshop [B60P3/14](#))
- B60P3/025A . . [N: the object being a theater, cinema, auditorium or grandstand] [N0311]
- B60P3/025C . . [N: the object being a display, i.e. for displaying articles] [N0311]
- B60P3/025E . . [N: the object being a vending stall, restaurant or food kiosk] [N0311]
- B60P3/03 . for transporting money or other valuables
- B60P3/035 . for transporting reel units
- B60P3/04 . for transporting animals [N: (Railway wagons adapted for carrying animals [B61D3/16D](#))]
- B60P3/05 . for transporting meat (for transporting refrigerated goods [B60P3/20](#))
- B60P3/055 . for transporting bottles
- B60P3/06 . for carrying vehicles ([B60P3/12](#) takes precedence; caravans, camping, or like vehicles with vehicle-carrying means [N: [B60P3/36](#)] [C9602])
- B60P3/06B . . [N: Especially adapted for carrying tracked vehicles, e.g. public works machinery, battle tanks, snowmobiles]
- B60P3/06C . . [N: Especially adapted for carrying non tracked public work, tractor or combat vehicles]
- B60P3/06D . . [N: specially adapted for carrying bulky agricultural material, e.g. combines]
- B60P3/06E . . [N: Especially adapted for road transportation of railway stock (vehicles for use both on rail and on road [B60F1/00](#))]
- B60P3/07 . . for carrying road vehicles
- B60P3/071 . . . Arrangement of overturned or on-edge vehicles
- B60P3/073 . . . Vehicle retainers [N: (specially adapted for fixing semi-trailers on railway vehicles [B61D45/00B3](#))]
- B60P3/075 for wheels, hubs, or axle shafts
- B60P3/077 Wheel cradles, chocks, or wells
- B60P3/079 Tie-down retainers ([B60P3/075](#) takes precedence)
- B60P3/08 . . Multilevel-deck construction carrying vehicles
- B60P3/10 . . for carrying boats; [N: (for carrying sailboards [B60R9/08](#), [B63B35/79S](#); equipment forming part of or attachable to vessels facilitating transport over land, e.g. wheel units, towing units, [B63C13/00](#))] [C9702]
- B60P3/10D . . . [N: on the vehicle roof] [N9702]
- B60P3/10D2 [N: with the boat or boat-supporting frame pivoting around a horizontal axis when loading on the roof] [N9702]
- B60P3/10D4 [N: with a sliding or rolling main movement of the boat or boat-supporting frame when loading on the roof] [N9702]
- B60P3/10F . . . [N: on a loading frame, e.g. the vehicle being a trailer ([B60P3/10D](#) takes precedence)] [N9702]
- B60P3/10F2 [N: comprising a shelter or boat protection, e.g. usable as a camper] [N9702]
- B60P3/10F3 [N: using a trailer convertible into a multipurpose trailer] [N9702]

- B60P3/10F4 [N: with the boat carried on or attached to a sliding subframe on the vehicle frame] [N9702]
- B60P3/10F8 [N: Arrangement of supports, rollers or winches on the vehicle] [N9702]
- B60P3/10F9 [N: Guiding means for loading the boat (using rollers [B60P3/20F8](#))] [N9702]
- B60P3/10F10 [N: Means for extending the drawbar; Dollies and skidplates for the tow hitch] [N9702]
- B60P3/10H [N: by suspending the boat, e.g. straddle trucks or trailers] [N9702]
- B60P3/11 for carrying aircraft
- B60P3/12 for salvaging damaged vehicles
- B60P3/12A [N: by supporting the whole vehicle] [N9512]
- B60P3/12B [N: by supporting only part of the vehicle, e.g. front- or rear-axle] [N9512]
- B60P3/12B1 [N: on a tow dolly] [N9512]
- B60P3/14 the object being a workshop for servicing, for maintenance, or for carrying workmen during work (lifting devices for movable platforms or cabins for workmen [B66F11/04](#))
- B60P3/16 for carrying mixed concrete, e.g. having rotatable drums [N: (concrete-mixing apparatus specially adapted for being mounted on vehicles with provision for mixing during transport [B28C5/42](#))] [C1003]
- B60P3/18 the object being a searchlight [N: (mounting of cameras operating during drive [B60R11/04](#))]
- B60P3/20 Refrigerated goods vehicles (air treatment of goods space [B60H](#); [N: air-conditioning means for freight cars, isothermic wagons [B61D27/00B2](#); superstructures for refrigerated goods vehicles [B62D33/04F](#)]) [C9811]
- B60P3/20B [N: with means for dividing the interior volume, e.g. movable walls or intermediate floors] [N9904]
- B60P3/22 Tank vehicles ([N: vehicles convertible from transport of fluids to transport of other types of goods [B60P3/42D](#)]; tank aspects [B65D86/00](#), [B65D90/00](#), [F17C](#)) [C9810]
- B60P3/22A [N: Constructional features] [N0105]
- B60P3/22A1 [N: Assembling, e.g. layout of steel plates or reinforcing arrangements] [N0105]
- B60P3/22A3 [N: Mounting of tanks to vehicles] [N0105]
- B60P3/22A3A [N: including resilient means] [N0105]
- B60P3/22A5 [N: the tank being part of the vehicle frame] [N0105]
- B60P3/22A7 [N: the tank itself rolling on the ground] [N0105]
- B60P3/22A11 [N: Anti-slosh arrangements (for tank containers [B65D90/52](#))] [N0105]
- B60P3/22B [N: comprising auxiliary devices, e.g. for unloading or level indicating (catwalks, ladders or safety railings therefor [B60R3/00B](#))] [C9811]
- B60P3/22B1 [N: Adaptations for loading or unloading] [N0105]
- B60P3/22B3 [N: Adaptations for pumps or valves] [N0105]
- B60P3/22B5 [N: Ventilating arrangements] [N0105]
- B60P3/22B7 [N: Arrangements of access openings or covers therefor] [N0105]
- B60P3/22B9 [N: Arrangements for hoses, tubes, or reels] [N0105]
- B60P3/22B11 [N: Methods for tracing the load (for tracing the vehicle [C08G1/123](#))]
- B60P3/22B13 [N: Prevention of electrostatic electricity] [N0105]

- B60P3/22B15 . . . [N: Measuring or indicating means, e.g. of level, volume, weight] [N0105]
- B60P3/22B17 . . . [N: Warning or prevention means against tilting] [N0105]
- B60P3/22B19 . . . [N: Anti-theft means (for vehicles [B60R25/00](#))] [N0105]
- B60P3/22C . . [N: Means for heating, cooling, or insulating tanks or equipments (for tank containers [B65D88/74T](#))] [N0105]
- B60P3/24 . . compartmented
- B60P3/24A . . . [N: divided by rigid walls] [N0105]
- B60P3/24B . . . [N: divided by flexible walls] [N0105]
- B60P3/28 . for transporting cranes (vehicles using cranes for self-loading or self-unloading [B60P1/54](#); mobile or travelling cranes [B66C](#)) [C9602]
- B60P3/30 . Spraying vehicles (sprinkling-wagons for fertilising liquid [A01C23/00](#); for destruction of noxious animals, vermin, or unwanted vegetation [A01M](#); [N: vehicle-mounted spraying installations for de-icing aircraft [B64F5/00E2](#)]; for spraying asphalt, bitumen, tar, or the like [E01C](#); for cleaning streets [E01H](#)) [C1003]
- B60P3/32 . comprising living accommodation for people, e.g. caravans, camping, or like vehicles (tents or canopies, in general [E04H15/00](#)) [C9602]
- B60P3/34 . . the living accommodation being expansible, collapsible or capable of rearrangement ([N: [B60P3/38](#)] takes precedence; tents supported at least partially by vehicles [E04H15/06](#)) [C9602]
- B60P3/34B . . . [N: comprising flexible elements]
- B60P3/34B1 [N: Hoods for caravans]
- B60P3/36 . . Auxiliary arrangements; Arrangements of living accommodation (toilet or washing arrangements [B60R15/00](#)); Details [C9602]
- B60P3/38 . . . Sleeping arrangements, [N: e.g. living or sleeping accommodation on the roof of the vehicle]
- B60P3/39 expansible, collapsible or repositionable elements adapted to support a bed, e.g. wall portions [N0207]
- B60P3/40 . for carrying long loads, e.g. with separate wheeled load supporting elements ([N: [E04G21/14](#) takes precedence]; signal devices to be attached to overhanging load [B60Q7/02](#)) [C9602]
- B60P3/41 . . for log transport [N9512]
- B60P3/42 . convertible from one use to a different one (vehicles capable of travelling in or on different media, rail-and-road vehicles [B60F](#))
- B60P3/42B . . [N: from transport of persons to transport of goods]
- B60P3/42D . . [N: from transport of fluids to transport of other types of goods] [N9810]
- B60P7/00** **Securing or covering of load on vehicles** ([N: immobilising the load during lifting a loading platform [B60P1/44G](#)]; for railway vehicles [B61D45/00](#))
- B60P7/02 . Covering of load
- B60P7/04 . . by tarpaulins or like flexible members
- B60P7/06 . Securing of load (vehicle retainers [B60P3/073](#))
- B60P7/06F . . [N: by pressurizing or creating a vacuum in a bag, cover or the like] [N9710]

B60P7/08	. . . securing to the vehicle floor or sides ([N: B60P7/06F , B60P7/13 , B60P7/135 take precedence) [C9710]
B60P7/08A	. . . [N: Attachment points] [N9710]
B60P7/08A3	. . . [N: Attachment rails or trellis] [N9710]
B60P7/08C	. . . [N: Straps; Tighteners]
B60P7/08C1	. . . [N: Tensioning by repetitive movement of an actuating member] [N9706]
B60P7/08C3	. . . [N: Tensioning by single movement of an actuating member] [N9706]
B60P7/08C5	. . . [N: winding up or storing of straps] [N0311]
B60P7/08C7	. . . [N: Tools for manipulating straps or tighteners] [N0311]
B60P7/08C9	. . . [N: Measuring or identifying the tension in the securing element] [N0802]
B60P7/08C11	. . . [N: Protecting the strap or the load from wear] [N0802]
B60P7/08D	. . . [N: using restraining net or tarpaulin in contact with the load] [N9710]
B60P7/08E	. . . [N: by increasing the friction between the load and the surface] [N9710]
B60P7/08G	. . . [N: by preventing lateral movement of the load, e.g. using stop blocks] [N9710]
B60P7/10	. . . the load being plates, cases, or boxes
B60P7/12	. . . the load being tree-trunks, beams, drums, tubes, or the like
B60P7/13	. . . Securing freight containers or forwarding containers on vehicles
B60P7/13B	. . . [N: twist-locks for containers or frames]
B60P7/135	. . . Securing or supporting by load bracing means
B60P7/14	. . . the load bracing means comprising a movable bulkhead
B60P7/15	. . . the load bracing means comprising a movable bar
B60P7/16	. . . Protecting against shocks [N: (B60P7/06F takes precedence)] [C9710]
B60P7/18	. . . Protecting freight containers or forwarding containers
B60P9/00	Other vehicles predominantly for carrying loads, [N: e.g. load carrying vehicles convertible for an intended purpose]