

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B62 LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS

#### B62B HAND-PROPELLED VEHICLES, e.g. HAND CARTS, PERAMBULATORS; SLEDGES

##### NOTES

1. In this subclass, the term "hand carts" also embraces hand-propelled wheeled devices in so far as the features thereof are generic to hand carts. This term also embraces pedestrian-controlled power-driven vehicles in so far as the features thereof are generic to hand carts
2. Rollers are taken as being equivalent to wheels

##### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:  
[B62B 3/065](#) covered by
2. 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.

##### Hand carts

		1/183	. . {with spring-mounted wheels}
		1/186	. . {comprising an additional wheel, e.g. mounted on the struts}
		1/20	. . involving parts being collapsible, attachable, detachable or convertible
		1/202	. . . {Detachable buckets}
		1/204	. . . {Detachable elements on the buckets, e.g. for increasing volume}
		1/206	. . . {and capable of being completely disassembled}
		1/208	. . . {foldable}
		1/22	. . involving means for grappling or securing in place objects to be carried; Loading or unloading equipment
		1/24	. . involving tiltably-mounted containers
		1/26	. characterised by supports specially adapted to objects of definite shape
		1/262	. . {the objects being of elongated shape, e.g. fishing rods, golf clubs}
		1/264	. . {the objects being of cylindrical shape, e.g. barrels, buckets, dustbins}
		1/266	. . {the objects being bags}
		1/268	. . {the objects being plates, doors, panels or the like}
		<b>3/00</b>	<b>Hand carts having more than one axis carrying transport wheels; Steering devices therefor; Equipment therefor</b> <a href="#">{(convertible from one-axled to two-axled vehicle B62B 1/002)}</a>
		3/001	. {Steering devices}
		3/002	. {characterised by a rectangular shape, involving sidewalls or racks}
		3/003	. . {Non-transparent side walls}
		3/004	. . {Details of doors or cover lids}
		3/005	. . {Details of storage means, e.g. drawers, bins or racks}
		3/006	. {for stacking objects like trays, bobbins, chains}
<b>1/00</b>	<b>Hand carts having only one axis carrying one or more transport wheels; Equipment therefor</b>		
1/002	. {convertible from a one-axled vehicle to a two-axled vehicle}		
1/004	. {being longitudinally nestable with each other}		
1/006	. {being vertically stackable with each other}		
1/008	. {having a prop or stand for maintaining position}		
1/02	. in which the wheel axis is disposed between the load and the handles		
1/04	. . involving parts being adjustable, collapsible, attachable, detachable, or convertible		
1/042	. . . {foldable}		
1/045	. . . . {foldable in one action}		
1/047	. . . . . {by telescopic movement of the handle}		
1/06	. . involving means for grappling or securing in place objects to be carried; Loading or unloading equipment		
1/08	. . having auxiliary wheels used during loading or unloading		
1/10	. in which the load is intended to be transferred totally to the wheels		
1/12	. . involving parts being adjustable, collapsible, attachable, detachable, or convertible		
1/125	. . . {by means of telescoping elements}		
1/14	. . involving means for grappling or securing in place objects to be carried; Loading or unloading equipment		
1/142	. . . {with object clamping means being movable substantially parallel to the ground surface}		
1/145	. . . {Unloading equipment for pushing the load from the carrier platform}		
1/147	. . . {the load support being in the form of a scoop}		
1/16	. . involving tiltably-mounted containers		
1/18	. in which the load is disposed between the wheel axis and the handles, e.g. wheelbarrows		

- 3/007 . {Coaster wagons}
  - 3/008 . {having more than two axes}
  - 3/009 . {of the single-track type}
  - 3/02 . involving parts being adjustable, collapsible, attachable, detachable or convertible
  - 3/022 . . {folding down the body to the wheel carriage or by retracting projecting parts ([collapsible containers B65D](#), e.g. [B65D 7/24](#), [B65D 9/12](#), [B65D 11/18](#))}
  - 3/025 . . {Foldable roll containers}
  - 3/027 . . {collapsible shopping trolleys}
  - 3/04 . involving means for grappling or securing in place objects to be carried; Loading or unloading equipment
  - 3/06 . . for simply clearing the load from the ground ([masted lift trucks B66F](#))
  - 3/0606 . . . {manually operated}
  - 3/0612 . . . {power operated}
  - 3/0618 . . . {using fluid lifting mechanisms}
  - 3/0625 . . . {using rigid mechanical lifting mechanisms, e.g. levers, cams or gears}
  - 3/0631 . . . . {with a parallelogram linkage}
  - 3/0637 . . . {using flexible mechanical lifting mechanisms, e.g. ropes or chains}
  - 3/0643 . . . {the wheels remaining stationary while the supporting surface is lifted}
  - 3/08 . involving tiltably-mounted containers
  - 3/10 . characterised by supports specially adapted to objects of definite shape
  - 3/102 . . {the objects being of elongated shape, e.g. rods or golf clubs}
  - 3/104 . . {the object being of cylindrical shape, e.g. barrels, buckets, dustbins}
  - 3/106 . . {the objects being bags}
  - 3/108 . . {the objects being plates, doors, panels, or the like}
  - 3/12 . characterised by three-wheeled construction
  - 3/14 . characterised by provisions for nesting or stacking, e.g. shopping trolleys ([collapsible shopping trolleys B62B 3/027](#))}
  - 3/1404 . . {Means for facilitating stowing or transporting of the trolleys; Antitheft arrangements ([B62B 5/0423](#) takes precedence)}
  - 3/1408 . . {Display devices mounted on it, e.g. advertisement displays}
  - 3/1412 . . . {mounted on the frame}
  - 3/1416 . . . {mounted on the handle}
  - 3/142 . . . {mounted on the basket}
  - 3/1424 . . . {Electronic display devices}
  - 3/1428 . . {Adaptations for calculators, memory aids or reading aids}
  - 3/1432 . . . {mounted in the locking device}
  - 3/1436 . . {Covers, e.g. for protection in rain}
  - 3/144 . . {Adaptations for transporting children; Mounting of toys for the children}
  - 3/1444 . . . {Transporting devices mounted on the shopping cart}
  - 3/1448 . . . {Linings or cushions}
  - 3/1452 . . . {Safety belts}
  - 3/1456 . . . {Mounting of toys}
  - 3/146 . . {Lockers, hooks, e.g. for personal belongings}
  - 3/1464 . . {Bags or containers specially adapted to the baskets}
  - 3/1468 . . {Additional trays}
  - 3/1472 . . {Supports for specific articles ([B62B 3/1468](#) takes precedence)}
  - 3/1476 . . {the main load support being a platform}
  - 3/148 . . {Adaptations facilitating the transport to the counter}
  - 3/1484 . . . {by an auxiliary access to the inside of the basket}
  - 3/1488 . . {Indicating or preventing transport of goods under the basket}
  - 3/1492 . . {Wheel arrangements}
  - 3/1496 . . {Assembling of baskets to the wheeled support}
  - 3/16 . . vertically stackable
  - 3/165 . . . {roll baskets}
  - 3/18 . . nestable by means of pivoted supports or support parts, e.g. baskets ([B62B 3/1476](#) takes precedence)}
  - 3/182 . . . {Swinging baskets}
  - 3/184 . . . {Nestable roll containers}
  - 3/186 . . . . {V-shaped when nested}
  - 3/188 . . . . {Z-shaped when nested}
- 5/00 Accessories or details specially adapted for hand carts ([B62B 3/1404](#) , [B62B 9/00](#) take precedence; wheels, axles, or axle bearings for vehicles [B60B](#); castors for vehicles, castors in general [B60B 33/00](#))**
- 5/0003 . {Adaptations for loading in or on a vehicle}
  - 5/0006 . {Bumpers; Safety devices}
  - 5/0009 . . {Stops for moving parts, e.g. rubber elements to eliminate stop noise}
  - 5/0013 . {Protection covers, e.g. against rain}
  - 5/0016 . {Adaptations for connection to perambulators}
  - 5/002 . {Adaptations for moving the carts by wheel chair users or other disabled persons}
  - 5/0023 . {Arrangements for carrying as a back-pack}
  - 5/0026 . {Propulsion aids}
  - 5/003 . . {Combustion engines}
  - 5/0033 . . {Electric motors}
  - 5/0036 . . . {Arrangements of motors}
  - 5/004 . . . . {in wheels}
  - 5/0043 . . . . {One motor drives one wheel}
  - 5/0046 . . . . {One motor drives two wheels}
  - 5/005 . . . . {Detachably mounted motor units}
  - 5/0053 . . . {Arrangements of batteries}
  - 5/0056 . . . {Energy recuperation}
  - 5/0059 . . {facilitating hand propulsion when motor fails}
  - 5/0063 . . {guiding, e.g. by a rail}
  - 5/0066 . . {Transmission of movement}
  - 5/0069 . . {Control}
  - 5/0073 . . . {Measuring a force}
  - 5/0076 . . . {Remotely controlled}
  - 5/0079 . . {Towing by connecting to another vehicle}
  - 5/0083 . {Wheeled supports connected to the transported object}
  - 5/0086 . . {arranged independently on either side of the transported load}
  - 5/0089 . . {Lifting lever on wheels or rollers}
  - 5/0093 . . {Flat dollies without hand moving equipment}
  - 5/0096 . {Identification of the cart or merchandise, e.g. by barcodes or radio frequency identification [RFID]}
  - 5/02 . providing for travelling up or down a flight of stairs ([chairs or multi-track cycles specially adapted for invalids A61G 5/00](#))

- 5/021 . . {specially adapted for escalators}
  - 5/023 . . {using an upwards pushing device}
  - 5/025 . . {with gliding elements, e.g. skids}
  - 5/026 . . {with spiders or adapted wheels}
  - 5/028 . . {with eccentrically mounted wheels}
  - 5/04 . . Braking mechanisms; Locking devices against movement
  - 5/0404 . . {automatic}
  - 5/0409 . . . {when user rises from seat}
  - 5/0414 . . . {dead man's brakes}
  - 5/0419 . . . {braking when nested}
  - 5/0423 . . . {braking or blocking when leaving a particular area}
  - 5/0428 . . . {braking when supported on a transport belt}
  - 5/0433 . . {foot operated}
  - 5/0438 . . {hand operated}
  - 5/0442 . . . {using a handle bar alone}
  - 5/0447 . . . {using elements cooperating with a handle bar}
  - 5/0452 . . {by hydraulic means}
  - 5/0457 . . {by locking in a braking position}
  - 5/0461 . . . {with positive engagement}
  - 5/0466 . . {by turning the wheels in different directions, e.g. toe-in}
  - 2005/0471 . . {Disk brakes}
  - 5/0476 . . {Rim brakes}
  - 5/048 . . {Hub brakes; drum brakes}
  - 5/0485 . . {by braking on the running surface, e.g. the tyre}
  - 5/049 . . {locking against movement by contacting the floor or a wall}
  - 5/0495 . . . {by contacting a wall}
  - 5/06 . . Hand moving equipment, e.g. handle bars (for cycles [B62K 11/14](#), [B62K 21/12](#))
  - 5/061 . . {both ends or periphery of cart fitted with handles}
  - 5/062 . . {elastically mounted, e.g. for wheelbarrows}
  - 5/063 . . {for low-lift hand trucks}
  - 5/064 . . {adaptable for different users, e.g. by means of pivoting elements}
  - 5/065 . . . {by means of telescopic elements}
  - 5/066 . . {Handle bars rotatable about their longitudinal axis}
  - 5/067 . . {Stowable or retractable handle bars}
  - 5/068 . . {Connections to the body for moving the cart, e.g. harnesses}
  - 5/069 . . {Removable sleeves on handle bars, e.g. for protection against germs}
  - 5/08 . . Children's seats ([B62B 3/14](#) takes precedence) {; Seats or supports for other persons}
  - 5/082 . . {Children's seats}
  - 5/085 . . {Resting seats}
  - 5/087 . . {Platforms to stand upon}
  - 7/04 . . having more than one wheel axis; Steering devices therefor
  - 7/042 . . {Steering devices}
  - 7/044 . . {three wheeled}
  - 7/046 . . . {with interchangeable front wheel unit}
  - 7/048 . . {Single track type}
  - 7/06 . . collapsible or foldable
  - 7/062 . . . {Coupling unit between front wheels, rear wheels and handle}
  - 7/064 . . . {the handle bar being parallel to the front leg}
  - 7/066 . . . . {the handle bar moves in parallel relation during folding}
  - 7/068 . . . {by sliding a bushing along a rod, e.g. like folding means of an umbrella}
  - 7/08 . . . in the direction of, or at right angles to, the wheel axis
  - 7/083 . . . . {the wheel axes being moved from each other during folding}
  - 7/086 . . . . {becoming smaller in all three dimensions}
  - 7/10 . . . by folding down the body to the wheel carriage or by retracting projecting parts into the box-shaped body
  - 7/105 . . . . {with the wheels staying in a fixed relation to each other}
  - 7/12 . . convertible, e.g. into children's furniture or toy ([children's chairs convertible to pushchairs A47D 1/06](#))
  - 7/123 . . . {from seat to bed ([B62B 7/147](#), [B62B 9/104](#) take precedence)}
  - 7/126 . . . {into a trailer, e.g. bicycle trailer}
  - 7/14 . . with detachable or rotatably-mounted body {(the body usable as a child's seat in a vehicle [B60N 2/2848](#))}
  - 7/142 . . . {Means for securing the body to the frame}
  - 7/145 . . . {the body being a rigid seat, e.g. a shell}
  - 7/147 . . . {rotatable as a whole to transform from seating to lying}
  - 9/00 Accessories or details specially adapted for children's carriages or perambulators (providing for travelling on snow [B62B 19/00](#))**
  - 9/005 . . {Safety means for traffic, e.g. lights, reflectors, mirrors etc. (signaling means for cycles [B62J](#))}
  - 9/02 . . providing for travelling up or down a flight of stairs
  - 9/04 . . with runners, e.g. sledge runners
  - 9/06 . . with spiders or the like
  - 9/08 . . Braking mechanisms; Locking devices against movement
  - 9/082 . . {foot operated}
  - 9/085 . . {hand operated}
  - 9/087 . . {by locking in a braking position}
  - 9/10 . . Perambulator bodies; Equipment therefor ([collapsible or foldable B62B 7/06](#); [convertible B62B 7/12](#))
  - 9/102 . . . {characterized by details of the seat}
  - 9/104 . . . . {with adjustable or reclining backrests}
  - 9/106 . . . . {with head guards}
  - 9/108 . . . . {Linings or cushions}
  - 9/12 . . involving parts that are adjustable, attachable or detachable {([B62B 9/102](#), [B62B 9/14](#) take precedence)}
  - 9/14 . . {Equipment protecting from environmental influences, e.g.} Hoods; Weather screens; Cat nets
- Carriages for children; Perambulators** (chairs or multi-track cycles specially adapted for invalids [A61G 5/00](#))
- 7/00 Carriages for children; Perambulators, e.g. dolls' perambulators**
  - 7/002 . . {having a single central pillar}
  - 7/004 . . {Carriages supporting a hammock-style seat}
  - 7/006 . . {Carriages supporting a rigid seat (when detachable or rotatable [B62B 7/145](#))}
  - 7/008 . . {for two or more children}
  - 7/02 . . having only a single wheel axis

- 9/142 . . . {by flexible canopies, covers or nets}
  - 9/145 . . . . {of the roll-up type}
  - 9/147 . . . {Attachments or holders for umbrellas, parasols or sunshade panels (details of umbrellas or sunshade panels ([B62B 25/00](#)))}
  - 9/16 . Mud-guards or protecting devices for wheels
  - 9/18 . Resilient suspensions of bodies
  - 9/185 . . {by springs between seat and frame}
  - 9/20 . Handle bars; Handles
  - 9/203 . . {movable from front end to rear end position}
  - 9/206 . . {with two separate bars, i.e. not interconnected}
  - 9/22 . Devices for rocking or oscillating
  - 9/24 . Safety guards for children, e.g. harness (cat nets [B62B 9/14](#); devices for use in guiding or supporting children, e.g. safety harness [A47D 13/08](#))
  - 9/245 . . {Removable front guards, e.g. with a tray}
  - 9/26 . Securing devices for bags or toys {; Arrangements of racks, bins, trays or other devices for transporting articles}
  - 9/28 . Auxiliary dismountable seats {; Additional platforms for children in standing-up position}
- 11/00 Hand-propelled vehicles not otherwise provided for (rider propulsion of vehicles [B62M 1/00](#))**

**Sledges** (characterised by animal propulsion [B62C](#); propulsion of sledges by driver or engine [B62M](#))

**13/00 Sledges with runners (ice boats or sailing sledges [B62B 15/00](#))**

- 13/005 . {comprising articulated sledge segments}
- 13/02 . characterised by arrangement of runners
- 13/04 . . arranged in a single line
- 13/043 . . . {having one single runner (monoski [A63C 5/03](#))}
- 13/046 . . . {with steering devices}
- 13/06 . . arranged in two or more parallel lines
- 13/08 . . . with steering devices
- 13/10 . . . . with swivelling portions of the runners; with a swivelling middle runner
- 13/12 . . . . with tilting or bending runners
- 13/125 . . . . . {the runners being bent in the shape of the curve to follow}
- 13/14 . . . . combined with braking devices
- 13/16 . Collapsible or foldable sledges
- 13/18 . Vehicles having alternatively-usable runners and wheels {or other transport means}

**15/00 Other sledges; Ice boats or sailing sledges**

- 15/001 . {propelled by sails}
- 15/002 . . {having skis or runners}
- 15/003 . . {having floats}
- 15/004 . . {having wheels}
- 15/005 . . . {the arrangement is similar to a bicycle}
- 15/006 . {Inflatable sledges}
- 15/007 . {Towed sledges}
- 15/008 . {Wheeled sledges ([B62B 13/18](#) and [B62B 15/001](#) take precedence)}
- 15/009 . . {Wheels attachable to the runners}

**17/00 Accessories or details of sledges {(propulsion devices for sledges [B62M 27/00](#), [B62M 29/00](#))}**

- 17/005 . {Safety devices}
- 17/02 . Runners (attachable to or replacing vehicle wheels [B62B 19/00](#))

- 17/04 . . resiliently suspended
  - 17/06 . Superstructures; Attachments therefor
  - 17/061 . . {Handles}
  - 17/062 . . {Resilient suspensions of bodies ([B62B 17/04](#) takes precedence)}
  - 17/063 . . {Seats or other supports specially adapted for the user}
  - 17/065 . . . {the user being standing up}
  - 17/066 . . . {the user being hanging in a harness}
  - 17/067 . . . {the user being sitting on his knees}
  - 17/068 . . . {the user being laying on his belly}
  - 17/08 . Braking devices
- 19/00 Runners for carrying wheeled vehicles to facilitate travel on ice or snow**
- 19/02 . attachable to wheels
  - 19/04 . replacing wheels

**2202/00 Indexing codes relating to type or characteristics of transported articles**

- 2202/02 . Cylindrically-shaped articles, e.g. drums, barrels, flasks
- 2202/021 . . Bottles
- 2202/022 . . Gas bottles
- 2202/023 . . Beverage holders, e.g. for a cup, tin or bottle
- 2202/025 . . Reels, e.g. for filamentary or sheet material
- 2202/026 . . Milkchurns
- 2202/028 . . Buckets
- 2202/03 . . Bales of hay or grass
- 2202/031 . . Wheels, tires
- 2202/10 . Heavy objects, e.g. ISO-containers
- 2202/12 . Boxes, Crates
- 2202/20 . Dustbins, refuse containers
- 2202/22 . Flexible bags, e.g. for rubbish
- 2202/24 . Suit-cases, other luggage
- 2202/26 . Handbags, e.g. shopping bags
- 2202/30 . Furniture
- 2202/32 . . Chairs
- 2202/34 . . Music instruments, e.g. pianos
- 2202/35 . . Music stands
- 2202/40 . Sport articles
- 2202/401 . . Skis
- 2202/402 . . for fishing
- 2202/403 . . Boats or other water vehicles
- 2202/404 . . Golf articles, e.g. golfbags
- 2202/406 . . . Golf clubs
- 2202/407 . . . Holders for balls, tees
- 2202/408 . . Outboard motors
- 2202/41 . Projectiles, bombs, amunition
- 2202/42 . Persons or animals, dead or alive
- 2202/48 . Tools
- 2202/50 . Cleaning or gardening articles
- 2202/52 . Beach or picnic trolleys
- 2202/56 . Computers; Screens
- 2202/60 . Motors
- 2202/61 . Batteries
- 2202/62 . Tiles, bricks, paving slabs or the like
- 2202/64 . Documents, files or paper sheets
- 2202/65 . Clothes
- 2202/66 . Laundry
- 2202/67 . Service trolleys, e.g. in aircraft

## B62B

- 2202/68 . Coffins
- 2202/70 . Flowers; Pots; Plants
- 2202/80 . Household appliances, e.g. bath tubs, toilets or radiators
- 2202/90 . Vehicles
- 2202/92 . . Forklift trucks

### **Sledges** (characterised by animal propulsion [B62C](#); propulsion of sledges by driver or engine [B62M](#))

#### **2203/00 Grasping, holding, supporting the objects**

- 2203/02 . suspended
  - 2203/04 . . pivotally, e.g. for keeping it horizontally
  - 2203/05 . Rocking means for facilitating tilting of the cart, e.g. by loading
  - 2203/07 . Comprising a moving platform or the like, e.g. for unloading
  - 2203/071 . . turning around a vertical pivot axis
  - 2203/073 . . sliding in a horizontal plane
  - 2203/10 . comprising lifting means
  - 2203/11 . . comprising a crane
  - 2203/13 . . comprising a self levelling surface
  - 2203/20 . using forks or tines
  - 2203/21 . . the objects being supported between the tines
  - 2203/22 . . the fork comprising more than two tines
  - 2203/24 . . Changing the position of the fork or supports
  - 2203/26 . . the fork being independent from the supporting arms in which the wheels are incorporated
  - 2203/28 . . Guiding the forks into the pallets
  - 2203/29 . . Stops on the tines to arrest the pallets or other objects
  - 2203/30 . using magnets or suction cups
  - 2203/40 . Supporting bins or barrels by their handgrips or other protrusions
  - 2203/42 . Grips for grasping the upper rim of the barrels
  - 2203/44 . Clamping or supporting circumferentially
  - 2203/50 . comprising weighing means
  - 2203/60 . Positioning, means on a cart for loads
  - 2203/70 . Comprising means for facilitating loading or unloading
  - 2203/72 . . means for pushing or pulling the load from/onto the platform
  - 2203/74 . . rolling means, e.g. rollers
- #### **2204/00 Ventilation; Heating; Cooling; Insulation**
- 2204/02 . comprising a heating unit
  - 2204/04 . comprising a cooling unit
  - 2204/06 . comprising insulating materials
- #### **2205/00 Hand-propelled vehicles or sledges being foldable or dismountable when not in use**
- 2205/003 . with actuation mechanisms which drive the folding or unfolding operation
  - 2205/006 . dismountable
  - 2205/02 . foldable widthwise
  - 2205/04 . box-shaped in folded position
  - 2205/06 . Foldable with a scissor-like mechanism
  - 2205/10 . Detachable wheels
  - 2205/102 . . stowed on top of each other
  - 2205/104 . . Detachable wheel units, e.g. together with the wheel shaft
  - 2205/12 . Collapsible wheels
  - 2205/121 . . stowed on top of each other
  - 2205/123 . . comprising a foldable interconnecting shaft

- 2205/14 . Retractable wheels
- 2205/145 . . retractable in the direction of the shaft, e.g. with telescopic shafts
- 2205/18 . Geared articulations
- 2205/20 . Catches; Locking or releasing an articulation
- 2205/22 . . remotely controlled, e.g. from the handlebar
- 2205/23 . . foot operated
- 2205/24 . . to hold in the folded position
- 2205/26 . Arrangements for standing up in folded position
- 2205/30 . Detachable, retractable or collapsible load supporting means
- 2205/32 . . Shelves
- 2205/33 . . . stowed in a vertical position

#### **2206/00 Adjustable or convertible hand-propelled vehicles or sledges**

- 2206/003 . with actuation mechanisms which drive the adjustment or conversion operation
- 2206/006 . Convertible hand-propelled vehicles or sledges
- 2206/02 . adjustable in length or width
- 2206/04 . . only the load support being adjustable
- 2206/06 . adjustable in height

#### **2207/00 Joining hand-propelled vehicles or sledges together**

- 2207/02 . rigidly
- 2207/04 . Forklift trucks with wheeled pallets

#### **2301/00 Wheel arrangements; Steering; Stability; Wheel suspension**

- 2301/02 . comprising wheels for longitudinal travelling and wheels for lateral travelling
- 2301/04 . comprising a wheel pivotable about a substantially vertical axis, e.g. swivelling castors
- 2301/044 . . arranged remote from the longitudinal centreline of the hand propelled vehicle
- 2301/046 . . with means restricting the rotation about that axis
- 2301/0463 . . . by blocking the rotation at a position
- 2301/04632 . . . . at two or more positions
- 2301/0465 . . . by urging the wheel into a position, e.g. into a straight forward position
- 2301/0467 . . . combined with means for braking the wheel
- 2301/05 . Details of the attachment of the wheel assembly to the chassis
- 2301/06 . Steering all wheels together simultaneously
- 2301/08 . comprising additional wheels to increase stability
- 2301/10 . Adjusting the position of the wheel axles to increase stability
- 2301/12 . comprising counterbalancing means to increase stability
- 2301/14 . the wheel arrangement pivoting around a horizontal-longitudinal axis
- 2301/20 . Resilient wheel suspension using springs
- 2301/22 . . using leafsprings
- 2301/23 . . the pressure of the wheel on the ground being controlled, e.g. by the load or the wheel slip
- 2301/25 . characterised by the ground engaging elements, e.g. wheel type
- 2301/252 . . by using ball-shaped wheels
- 2301/254 . . by using roller-shaped wheels
- 2301/256 . . by using endless belts
- 2301/258 . . by using screw-type propulsion
- 2301/33 . Wheels provided with protrusions, e.g. anti-slip protrusions

- 2301/34 . Protection against mud, e.g. by retracting or enclosing the wheels

**2501/00 Manufacturing; Constructional features**

- 2501/02 . Dimensions
- 2501/04 . Production features
- 2501/06 . Materials used
  - 2501/062 . . Cardboard or paper
  - 2501/065 . . Plastics
  - 2501/067 . . Wires