

# 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

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

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

9/142	. . . {by flexible canopies, covers or nets}	17/04	. . resiliently suspended
9/145	. . . . {of the roll-up type}	17/06	. Superstructures; Attachments therefor
9/147	. . . {Attachments or holders for umbrellas, parasols or sunshade panels (details of umbrellas <a href="#">A45B 25/00</a> )}	17/061	. . {Handles}
9/16	. Mud-guards or protecting devices for wheels	17/062	. . {Resilient suspensions of bodies ( <a href="#">B62B 17/04</a> takes precedence)}
9/18	. Resilient suspensions of bodies	17/063	. . {Seats or other supports specially adapted for the user}
9/185	. . {by springs between seat and frame}	17/065	. . . {the user being standing up}
9/20	. Handle bars; Handles	17/066	. . . {the user being hanging in a harness}
9/203	. . {movable from front end to rear end position}	17/067	. . . {the user being sitting on his knees}
9/206	. . {with two separate bars, i.e. not interconnected}	17/068	. . . {the user being laying on his belly}
9/22	. Devices for rocking or oscillating	17/08	. Braking devices
9/24	. Safety guards for children, e.g. harness (cat nets <a href="#">B62B 9/14</a> ; devices for use in guiding or supporting children, e.g. safety harness <a href="#">A47D 13/08</a> )	<b>19/00</b>	<b>Runners for carrying wheeled vehicles to facilitate travel on ice or snow</b>
9/245	. . {Removable front guards, e.g. with a tray}	19/02	. attachable to wheels
9/26	. Securing devices for bags or toys {; Arrangements of racks, bins, trays or other devices for transporting articles}	19/04	. replacing wheels
9/28	. Auxiliary dismountable seats {; Additional platforms for children in standing-up position}		
<b>11/00</b>	<b>Hand-propelled vehicles not otherwise provided for (rider propulsion of vehicles <a href="#">B62M 1/00</a>)</b>		
<b>Sledges (characterised by animal propulsion <a href="#">B62C</a>; propulsion of sledges by driver or engine <a href="#">B62M</a>)</b>			
<b>13/00</b>	<b>Sledges with runners (ice boats or sailing sledges <a href="#">B62B 15/00</a>)</b>	<b>2202/00</b>	<b>Indexing codes relating to type or characteristics of transported articles</b>
13/005	. {comprising articulated sledge segments}	2202/02	. Cylindrically-shaped articles, e.g. drums, barrels, flasks
13/02	. characterised by arrangement of runners	2202/021	. . Bottles
13/04	. . arranged in a single line	2202/022	. . Gas bottles
13/043	. . . {having one single runner (monoski <a href="#">A63C 5/03</a> )}	2202/023	. . Beverage holders, e.g. for a cup, tin or bottle
13/046	. . . {with steering devices}	2202/025	. . Reels, e.g. for filamentary or sheet material
13/06	. . arranged in two or more parallel lines	2202/026	. . Milkchurns
13/08	. . . with steering devices	2202/028	. . Buckets
13/10	. . . . with swivelling portions of the runners; with a swivelling middle runner	2202/03	. . Bales of hay or grass
13/12	. . . . with tilting or bending runners	2202/031	. . Wheels, tires
13/125	. . . . . {the runners being bent in the shape of the curve to follow}	2202/10	. Heavy objects, e.g. ISO-containers
13/14	. . . . combined with braking devices	2202/12	. Boxes, Crates
13/16	. Collapsible or foldable sledges	2202/20	. Dustbins, refuse containers
13/18	. Vehicles having alternatively-usable runners and wheels {or other transport means}	2202/22	. Flexible bags, e.g. for rubbish
<b>15/00</b>	<b>Other sledges; Ice boats or sailing sledges</b>	2202/24	. Suit-cases, other luggage
15/001	. {propelled by sails}	2202/26	. Handbags, e.g. shopping bags
15/002	. . {having skis or runners}	2202/30	. Furniture
15/003	. . {having floats}	2202/32	. . Chairs
15/004	. . {having wheels}	2202/34	. . Music instruments, e.g. pianos
15/005	. . . {the arrangement is similar to a bicycle}	2202/35	. . Music stands
15/006	. {Inflatable sledges}	2202/40	. Sport articles
15/007	. {Towed sledges}	2202/401	. . Skis
15/008	. {Wheeled sledges ( <a href="#">B62B 13/18</a> and <a href="#">B62B 15/001</a> take precedence)}	2202/402	. . for fishing
15/009	. . {Wheels attachable to the runners}	2202/403	. . Boats or other water vehicles
<b>17/00</b>	<b>Accessories or details of sledges {(propulsion devices for sledges <a href="#">B62M 27/00</a>, <a href="#">B62M 29/00</a>)}</b>	2202/404	. . Golf articles, e.g. golfbags
17/005	. {Safety devices}	2202/406	. . . Golf clubs
17/02	. Runners (attachable to or replacing vehicle wheels <a href="#">B62B 19/00</a> )	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

- 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