

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B62 LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS

B62B HAND-PROPELLED VEHICLES, e.g. HAND CARTS OR PERAMBULATORS; SLEDGES (characterised by animal propulsion B62C; propulsion of sledges by driver or engine B62M)

Note(s)

In this subclass, the following terms or expressions are used with the meanings indicated:

- "hand carts" also embraces hand-propelled wheeled devices in so far as the features thereof are generic to hand carts and also embraces pedestrian controlled power-driven vehicles in so far as the features thereof are generic to hand carts;
- "rollers" is equivalent to wheels.

Subclass index

HAND CARTS

With one axle; with more than one axle.....1/00, 3/00

Details and accessories; runners for travel on ice or snow.....5/00, 19/00

CARRIAGES FOR CHILDREN, PERAMBULATORS.....7/00, 9/00

SLEDGES

With runners; other types.....13/00, 15/00

Details and accessories.....17/00

OTHER HAND-PROPELLED VEHICLES.....11/00

Hand carts

1/00 Hand carts having only one axis carrying one or more transport wheels; Equipment therefor

- 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
- 1/06 • • 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
- 1/14 • • involving means for grappling or securing in place objects to be carried; Loading or unloading equipment
- 1/16 • • involving tiltably-mounted containers
- 1/18 • in which the load is disposed between the wheel axis and the handles, e.g. wheelbarrows
- 1/20 • • involving parts being collapsible, attachable, detachable or convertible
- 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

3/00 Hand carts having more than one axis carrying transport wheels; Steering devices therefor; Equipment therefor

- 3/02 • involving parts being adjustable, collapsible, attachable, detachable, or convertible (B62B 3/14 takes precedence) **[6]**
- 3/04 • involving means for grappling or securing in place objects to be carried; Load handling equipment
- 3/06 • • for simply clearing the load from the ground, e.g. low-lift trucks (devices movable on wheels or the like for lifting or lowering bulky or heavy goods for loading or unloading purposes, e.g. fork-lift trucks, B66F 9/06)
- 3/065 • • • with hydraulic lifting means **[6]**
- 3/08 • involving tiltably-mounted containers (B62B 3/14 takes precedence) **[6]**
- 3/10 • characterised by supports specially adapted to objects of definite shape
- 3/12 • characterised by three-wheeled construction (B62B 3/14 takes precedence) **[6]**
- 3/14 • characterised by provisions for nesting or stacking, e.g. shopping trolleys **[6]**
- 3/16 • • vertically stackable **[6]**
- 3/18 • • nestable by means of pivoted load supports or load support parts, e.g. baskets **[6]**

5/00 Accessories or details specially adapted for hand carts

- (B62B 9/00 takes precedence; wheels, axles, or axle bearings for vehicles B60B; castors for vehicles, castors in general B60B 33/00)
- 5/02 • providing for travelling up or down a flight of stairs (chairs or personal conveyances specially adapted for patients or disabled persons A61G 5/00)

B62B

- 5/04 • Braking mechanisms; Locking devices against movement
- 5/06 • Hand moving equipment, e.g. handle bars (for cycles B62K 11/14, B62K 21/12)
- 5/08 • Children's seats (B62B 3/14 takes precedence) [6]

- 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)
- 9/26 • Securing devices for bags or toys
- 9/28 • Auxiliary dismountable seats

Carriages for children; Perambulators

- 7/00 Carriages for children; Perambulators, e.g. dolls' perambulators**
 - 7/02 • having only a single wheel axis
 - 7/04 • having more than one wheel axis; Steering devices therefor
 - 7/06 • • collapsible or foldable
 - 7/08 • • • in the direction of, or at right angles to, the wheel axes
 - 7/10 • • • by folding down the body to the wheel carriage or by retracting projecting parts into the box-shaped body
 - 7/12 • • convertible, e.g. into children's furniture or toy (children's chairs convertible to push chairs A47D 1/06)
 - 7/14 • • with detachable or rotatably-mounted body
- 9/00 Accessories or details specially adapted for children's carriages or perambulators** (providing for travelling on snow B62B 19/00)
 - 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
 - 9/10 • Perambulator bodies; Equipment therefor (collapsible or foldable B62B 7/06; convertible B62B 7/12)
 - 9/12 • • involving parts that are adjustable, attachable or detachable
 - 9/14 • • Hoods; Weather screens; Cat nets
 - 9/16 • Mud-guards or protecting devices for wheels
 - 9/18 • Resilient suspensions of bodies
 - 9/20 • Handle bars; Handles
 - 9/22 • Devices for rocking or oscillating

- 11/00 Hand-propelled vehicles not otherwise provided for** (rider propulsion of vehicles B62M 1/00, B62M 6/00)

Sledges

- 13/00 Sledges with runners** (ice boats or sailing sledges B62B 15/00)
 - 13/02 • characterised by arrangement of runners
 - 13/04 • • arranged in a single line
 - 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
 - 13/14 • • • • combined with braking devices
 - 13/16 • Collapsible or foldable sledges
 - 13/18 • Vehicles having alternatively-usable runners and wheels
 - 15/00 Other sledges; Ice boats or sailing sledges**
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- 17/00 Accessories or details of sledges**
 - 17/02 • Runners (attachable to, or replacing, vehicle wheels B62B 19/00)
 - 17/04 • • resiliently suspended
 - 17/06 • Superstructures; Attachments therefor
 - 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

B62C VEHICLES DRAWN BY ANIMALS

Note(s)

1. This subclass covers only vehicles or parts thereof in so far as the relevant features are essential for animal-drawn vehicles.
2. This subclass does not cover animal-drawn vehicles which have not the features mentioned in Note (1) above. They are regarded as trailers which are covered by class B60 or subclass B62D, or as sledges which are covered by subclass B62B.

- 1/00 Types of vehicles**
 - 1/02 • Passenger vehicles
 - 1/04 • Load-carrying vehicles
 - 1/06 • • convertible, e.g. with extensible parts, with changeable wheel track
 - 1/08 • Racing vehicles, e.g. sulkies
- 3/00 Undercarriages or running gear of vehicles; Axle supports** (undercarriages for supporting agricultural tools or apparatus A01B 35/30, A01B 39/24, A01B 51/00)
 - 3/02 • Front wheel carriers; Bogies; Steering mechanisms for bogies

- 5/00 Draught assemblies** (traction harness B68B 3/00)
 - 5/02 • Shafts, poles, or thills; Mountings thereof, e.g. resilient, adjustable
 - 5/04 • Swingletrees; Mountings thereof; Draught equalisers for a span of draught animals; Mountings for traces
- 7/00 Braking mechanisms and brake control devices specially adapted for animal-drawn vehicles**
 - 7/02 • Mechanisms for locking ground-engaging wheels, e.g. engaging spokes
 - 7/04 • Automatic brake control devices

9/00	Carriers or holders for whips; Holders for reins forming part of, or attached to, vehicles (reins or whips <u>per se</u> B68B)	11/02	• Providing for disengaging thills
		11/04	• • combined with automatic braking
11/00	Safeguarding appliances not otherwise provided for, e.g. for readily-releasing unmanageable draught animals	99/00	Subject matter not provided for in other groups of this subclass [2009.01]
B62D	MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B 69/00; wheels, castors, axles, increasing wheel adhesion B60B; vehicle tyres, tyre inflation or tyre changing B60C; connections between vehicles of a train or the like B60D; vehicles for use on rail and road, amphibious or convertible vehicles B60F; suspension arrangements B60G; heating, cooling, ventilating or other air treating devices B60H; windows, windscreens, non-fixed roofs, doors or similar devices, protective coverings for vehicles not in use B60J; propulsion plant arrangements, auxiliary drives, transmissions, controls, instrumentation or dashboards B60K; electric equipment or propulsion of electrically-propelled vehicles B60L; power supply for electrically-propelled vehicles B60M; passenger accommodation not otherwise provided for B60N; adaptations for load transportation or to carry special loads or objects B60P; arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q; vehicles, vehicle fittings or vehicle parts, not otherwise provided for B60R; servicing, cleaning, repairing, supporting, lifting, or manoeuvring, not otherwise provided for B60S; brake arrangements, brake control systems or parts thereof B60T; air-cushion vehicles B60V; motorcycles, accessories therefor B62J, B62K; testing of vehicles G01M)		

Note(s)

In this subclass, the following terms are used with the meanings indicated:

- "vehicles" includes motor vehicles and trailers;
- "trailers" includes forecars or sidecars.

Subclass index

FUNCTIONAL OR STRUCTURAL CHARACTERISTICS; PARTS OR ACCESSORIES THEREOF NOT OTHERWISE PROVIDED FOR

Predominantly for passengers; load carrying.....	31/00, 47/00, 33/00
Tractors; tractor-trailer combinations or road trains; vehicles with no seat for the driver.....	49/00, 53/00, 51/00
Endless-track vehicles and their tracks; vehicles with ground engagement other than by tracks or wheels.....	55/00, 57/00
Trailers with driven ground wheels; Motor vehicles or trailers, characterised by the arrangement or number of wheels.....	59/00, 61/00
Other types of vehicles; designing, manufacturing, assembling, disassembling of vehicles.....	63/00, 65/00, 67/00

CHASSIS FRAME, SUPERSTRUCTURE, AND BODY

Chassis frame; monocoque construction; connections between body and frame.....	21/00, 23/00, 24/00
Superstructure and body characterised	
by material.....	29/00
the function of the vehicle.....	31/00, 33/00
streamlining; stabilising.....	35/00, 37/00, 17/00
superstructure sub-units and connections thereof; arrangements for spare wheel.....	25/00, 27/00, 43/00
radius rods.....	19/00
other vehicle bodies.....	39/00

STEERING

Initiating means; gears; response to driving conditions; linkage; adjusting.....	1/00, 3/00, 6/00, 7/00, 17/00
Power-assisted; automatically influencing; for endless-track vehicles; for trailers.....	5/00, 6/00, 11/00, 13/00
Tandem vehicles or pivotally connected frames.....	12/00
Other.....	9/00, 11/00, 15/00

ACCESSORIES FOR COLLISION MARKING.....41/00

Steering of motor vehicles or trailers [3]

1/00 Steering controls, i.e. means for initiating a change of direction of the vehicle [4, 5]

- 1/02 • vehicle-mounted
- 1/04 • • Hand wheels
- 1/06 • • • Rims, e.g. with heating means; Rim covers (B62D 1/11 takes precedence) [5]
- 1/08 • • • Spokes, e.g. resilient (B62D 1/11 takes precedence) [5]

- 1/10 • • • Hubs; Connecting hubs to steering columns, e.g. adjustable (B62D 1/11 takes precedence) [5]
- 1/11 • • • incorporating energy-absorbing arrangements, e.g. by being yieldable or collapsible (padded linings associated with the steering wheel B60R 21/05; shock absorbers using plastic deformation of members in general F16F 7/12) [5]
- 1/12 • • Hand levers

B62D

- 1/14 • • • Tillers, i.e. hand levers operating on steering columns
 - 1/16 • • Steering columns
 - 1/18 • • • yieldable or adjustable, e.g. tiltable (padded linings associated with the steering column B60R 21/05)
- Note(s)**
- Group B62D 1/181 takes precedence over groups B62D 1/183-B62D 1/187.
- 1/181 • • • • with power actuated adjustment, e.g. with position memory [7]
 - 1/183 • • • • adjustable between in-use and out-of-use positions, e.g. to improve access [7]
 - 1/184 • • • • Mechanisms for locking columns at selected positions [7]
 - 1/185 • • • • adjustable by axial displacement, e.g. telescopically (B62D 1/183, B62D 1/187, B62D 1/19 take precedence) [7]
 - 1/187 • • • • with tilt adjustment; with tilt and axial adjustment (B62D 1/183, B62D 1/19 take precedence) [7]
 - 1/189 • • • • the entire steering column being tiltable as a unit [7]
 - 1/19 • • • • incorporating energy-absorbing arrangements, e.g. by being yieldable or collapsible (shock-absorbers using plastic deformation of members in general F16F 7/12) [5]
 - 1/20 • • • Connecting steering column to steering gear
 - 1/22 • • Alternative steering-control elements, e.g. for teaching purposes
 - 1/24 • not vehicle-mounted
 - 1/26 • • mechanical, e.g. by a non-load-bearing guide (railways B61)
 - 1/28 • • non-mechanical

3/00 Steering gears (power assisted or power driven B62D 5/00; steering linkages B62D 7/00; for non-deflectable wheels B62D 11/00; gearing in general F16H)

- 3/02 • mechanical
- 3/04 • • of worm type
- 3/06 • • • with screw and nut
- 3/08 • • • • using intermediate balls or the like
- 3/10 • • • with worm engaging in sector or roller gear
- 3/12 • • of rack-and-pinion type
- 3/14 • hydraulic

5/00 Power-assisted or power-driven steering (for non-deflectable wheels B62D 11/00; fluid-pressure servomotors in general F15B)

- 5/02 • mechanical, e.g. using a power-take-off mechanism for taking power from a rotating shaft of the vehicle and applying it to the steering gear
- 5/04 • electrical, e.g. using an electric servo-motor connected to, or forming part of, the steering gear
- 5/06 • fluid, i.e. using a pressurised fluid for most or all the force required for steering a vehicle [4]
- 5/065 • • characterised by specially adapted means for varying pressurised fluid supply based on need, e.g. on-demand, variable assist [7]
- 5/07 • • Supply of pressurised fluid for steering also supplying other consumers [4]
- 5/08 • • characterised by type of valve used (valves in general F16K) [4]
- 5/083 • • • Rotary valves [4]

- 5/087 • • • Sliding spool valves [4]
- 5/09 • • characterised by means for actuating valves [4]
- 5/093 • • • Telemotor driven by steering wheel movement (hydraulic steering gear B62D 3/14) [4]
- 5/097 • • • • gerotor type [4]
- 5/10 • • characterised by type of power unit [4]
- 5/12 • • • Piston and cylinder [4]
- 5/14 • • • Rotary motor [4]
- 5/16 • • • Expansible chamber with flexible wall [4]
- 5/18 • • characterised by power transmitting means [4]
- 5/20 • • specially adapted for particular type of steering gear or particular application (steering gears *per se* B62D 3/00; steering linkages not characterised by being power-assisted or power-driven B62D 7/00) [4]
- 5/22 • • • for rack-and-pinion type [4]
- 5/24 • • • for worm type [4]
- 5/26 • • • for pivoted axles [4]
- 5/28 • • • for pivoted bogies [4]
- 5/30 • • Safety devices, e.g. alternate emergency power supply or transmission means to ensure steering upon failure of the primary steering means [4]
- 5/32 • • • for telemotor systems [4]

6/00 Arrangements for automatically controlling steering depending on driving conditions sensed and responded to, e.g. control circuits (means for initiating a change in direction B62D 1/00; steering valves B62D 5/06; combined with means for inclining the vehicle body or wheels on bends B62D 9/00) [4, 6]

Note(s)

1. When classifying in this group, classification is also made in the appropriate one of groups B62D 1/00 - B62D 5/00 or B62D 7/00 - B62D 19/00 if other aspects of the steering system are of interest.
2. In main group B62D 6/00, but excluding its subgroups, it is desirable to add the indexing codes of groups B62D 101/00 - B62D 137/00.

- 6/02 • responsive only to vehicle speed [4]
- 6/04 • responsive only to forces disturbing the intended course of the vehicle, e.g. forces acting transversely to the direction of vehicle travel [4]
- 6/06 • responsive only to vehicle vibration dampening arrangements (steering dampers for cycles B62K 21/08) [4]
- 6/08 • responsive only to input torque [6]
- 6/10 • • characterised by the means for sensing torque [6]

7/00 Steering linkage; Stub axles or their mountings (B62D 13/00 takes precedence; power-assisted or power-driven steering B62D 5/00) [5]

- 7/02 • for pivoted bogies
- 7/04 • • with more than one wheel
- 7/06 • for individually-pivoted wheels, e.g. on king-pins
- 7/08 • • the pivotal axes being situated in a single plane transverse to the longitudinal centre line of the vehicle
- 7/09 • • • characterised by means varying the ratio between the steering angles of the steered wheels (varying the ratio automatically depending on driving conditions B62D 6/00) [5]
- 7/10 • • • with single-output steering gear
- 7/12 • • • with twin-output steering gear

7/14	<ul style="list-style-type: none"> the pivotal axes being situated in more than one plane transverse to the longitudinal centre line of the vehicle, e.g. all-wheel steering 	17/00	Means on vehicle for adjusting camber, castor, or toe-in
7/15	<ul style="list-style-type: none"> characterised by means varying the ratio between the steering angles of the steered wheels (varying the ratio automatically depending on driving conditions B62D 6/00) [5] 	19/00	Radius rods, i.e. distance members
7/16	<ul style="list-style-type: none"> Arrangement of linkage connections (pivots <u>per se</u> F16C) 	<u>Understructures; Superstructures; Vehicle bodies</u>	
7/18	<ul style="list-style-type: none"> Steering knuckles; King-pins 	21/00	Understructures, i.e. chassis frame on which a vehicle body may be mounted (combined frame and vehicle body B62D 23/00)
7/20	<ul style="list-style-type: none"> Links, e.g. track rods (means for adjusting camber, castor, or toe-in B62D 17/00) 	21/02	<ul style="list-style-type: none"> comprising longitudinally or transversely arranged frame members [4]
7/22	<ul style="list-style-type: none"> Arrangements for reducing or eliminating reaction, e.g. vibration, from parts, e.g. wheels, of the steering system [5] 	21/03	<ul style="list-style-type: none"> transverse members providing body support [4]
9/00	Steering deflectable wheels not otherwise provided for (steering-position indicators B62D 15/02)	21/04	<ul style="list-style-type: none"> single longitudinal type
9/02	<ul style="list-style-type: none"> combined with means for inwardly-inclining vehicle body on bends 	21/05	<ul style="list-style-type: none"> pinched frame type, i.e. formed of at least two longitudinal frame sections connected by other longitudinal frame sections of lesser transverse dimension [4]
9/04	<ul style="list-style-type: none"> combined with means for inclining vehicle wheels on bends (B62D 9/02 takes precedence) [5] 	21/06	<ul style="list-style-type: none"> of X-shaped or fork-shaped construction, i.e. having members which form an X or fork as the frame is seen in plan view
11/00	Steering non-deflectable wheels; Steering endless tracks or the like	21/07	<ul style="list-style-type: none"> wide-hipped frame type, i.e. a wide box-shaped mid portion with narrower sections extending from said mid portion in both fore and aft directions [4]
11/02	<ul style="list-style-type: none"> by differentially driving ground-engaging elements on opposite vehicle sides 	21/08	<ul style="list-style-type: none"> built-up with interlaced cross members ("Fachwerkrahmen")
11/04	<ul style="list-style-type: none"> by means of separate power sources 	21/09	<ul style="list-style-type: none"> Means for mounting load bearing surfaces [4]
11/06	<ul style="list-style-type: none"> by means of a single main power source 	21/10	<ul style="list-style-type: none"> in which the main member is plate-like
11/08	<ul style="list-style-type: none"> using brakes or clutches as main steering-effecting means 	21/11	<ul style="list-style-type: none"> with resilient means for suspension [4]
11/10	<ul style="list-style-type: none"> using gearings with differential power outputs on opposite sides, e.g. twin- differential or epicyclic gears 	<u>Note(s)</u>	
11/12	<ul style="list-style-type: none"> using separate change-speed gearings 	This group <u>does not cover</u> subject matter primarily relating to the suspension, with only a nominal recitation of frame structure, which is covered by subclass B60G.	
11/14	<ul style="list-style-type: none"> differential power outputs being effected by additional power supply to one side, e.g. power originating from secondary power source 	21/12	<ul style="list-style-type: none"> assembled from readily-detachable parts
11/16	<ul style="list-style-type: none"> the additional power supply being supplied mechanically 	21/14	<ul style="list-style-type: none"> of adjustable length or width
11/18	<ul style="list-style-type: none"> the additional power supply being supplied hydraulically 	21/15	<ul style="list-style-type: none"> having impact absorbing means, e.g. a frame designed to permanently or temporarily change shape or dimension upon impact with another body (bumpers B60R 19/02; shock absorbers in general F16F) [4]
11/20	<ul style="list-style-type: none"> Endless-track steering having pivoted bogie carrying track (B62D 11/02 takes precedence) 	21/16	<ul style="list-style-type: none"> having fluid storage compartment [4]
11/22	<ul style="list-style-type: none"> Endless-track steering being effected by deflecting endless-track rollers or the like 	21/17	<ul style="list-style-type: none"> forming fluid or electrical conduit means or having other means to accommodate the transmission of a force or signal [4]
11/24	<ul style="list-style-type: none"> Endless-track steering specially adapted for vehicles having both steerable wheels and endless track 	21/18	<ul style="list-style-type: none"> characterised by the vehicle type and not provided for in groups B62D 21/02-B62D 21/17 [4]
12/00	Steering specially adapted for vehicles operating in tandem or having pivotally connected frames (steering endless tracks or the like B62D 11/00; steering specially adapted for trailers B62D 13/00) [4]	21/20	<ul style="list-style-type: none"> trailer type, i.e. a frame specifically constructed for use in a non-powered vehicle [4]
12/02	<ul style="list-style-type: none"> for vehicles operating in tandem [4] 	23/00	Combined superstructure and frame, i.e. monocoque constructions (superstructure sub-units B62D 25/00)
13/00	Steering specially adapted for trailers (combined traction and steering hitches B60D)	24/00	Connections between vehicle body and vehicle frame (B62D 23/00, B62D 33/077 take precedence) [5]
13/02	<ul style="list-style-type: none"> for centrally-pivoted axles 	24/02	<ul style="list-style-type: none"> Vehicle body, not intended to move relatively to the vehicle frame, and mounted on vibration absorbing mountings, e.g. rubber pads [5]
13/04	<ul style="list-style-type: none"> for individually-pivoted wheels 	24/04	<ul style="list-style-type: none"> Vehicle body mounted on resilient suspension for movement relative to the vehicle frame [5]
13/06	<ul style="list-style-type: none"> for backing a normally-drawn trailer 	25/00	Superstructure sub-units; Parts or details thereof not otherwise provided for
15/00	Steering not otherwise provided for	25/02	<ul style="list-style-type: none"> Side panels
15/02	<ul style="list-style-type: none"> Steering position indicators [4] 	25/04	<ul style="list-style-type: none"> Door pillars

B62D

- 25/06 • Fixed roofs (non-fixed roofs or roofs with movable panels B60J 7/00; roof liners B60R 13/02; insulating elements B60R 13/08)
- 25/07 • • having water drainage or guide means integral with roof structure [4]
- 25/08 • Front or rear portions
- 25/10 • • Bonnets or lids
- 25/12 • • • Parts or details thereof (locks E05B; hinges E05D; counterbalancing means E05F; springs F16F)
- 25/13 • • • • Water deflectors [5]
- 25/14 • • Dashboards as superstructure sub-unit (other dashboard aspects B60K)
- 25/16 • • Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)
- 25/18 • • • Parts or details thereof, e.g. mud-guard flaps
- 25/20 • Floors or bottom sub-units
- 25/22 • Running-boards, steps, or the like, as superstructure sub-unit (other arrangements of steps, ladders, or running-boards in vehicles B60R)
- 25/24 • Superstructure sub-units with access openings having movable or removable closures (inlet covers for vehicle fuel tanks B60K 15/05) [5]
- 27/00 Connections between superstructure sub-units**
- 27/02 • rigid
- 27/04 • resilient
- 27/06 • readily releasable
- 29/00 Superstructures characterised by material thereof**
- 29/02 • predominantly of wood
- 29/04 • predominantly of synthetic material (working of plastics or substances in a plastic state B29)
- 31/00 Superstructures for passenger vehicles** (passenger vehicles specially adapted to co-operate with aircraft or terminal buildings B64F 1/31)
- 31/02 • for carrying large numbers of passengers, e.g. omnibus
- 31/04 • with more than one deck
- 33/00 Superstructures for load-carrying vehicles** (in which a load-carrying element is movable B60P; liners B60R 13/00)
- 33/02 • Platforms; Open load compartments
- 33/023 • • Sideboard or tailgate structures [5]
- 33/027 • • • movable [5]
- 33/03 • • • • by swinging down [5]
- 33/033 • • • • removable [5]
- 33/037 • • • • Latching means therefor [5]
- 33/04 • Enclosed load compartments
- 33/06 • Drivers' cabs
- 33/063 • • movable from one position into at least one other position, e.g. tiltable, pivotable about a vertical axis, displaceable from one side of the vehicle to the other [5]
- 33/067 • • • tiltable [5]
- 33/07 • • • • characterised by the device for locking the cab in the tilted or in the driving position [5]
- 33/073 • • • characterised by special adaptations of vehicle control devices [5]
- 33/077 • characterised by the connection of the superstructure to the vehicle frame [5]
- 33/08 • • comprising adjustable means (B62D 33/10 takes precedence) [5]

- 33/10 • • comprising means for the suspension of the superstructure on the frame [5]

35/00 Vehicle bodies characterised by streamlining

- 35/02 • Streamlining the undersurfaces

37/00 Stabilising vehicle bodies without controlling suspension arrangements

- 37/02 • by aerodynamic means
- 37/04 • by means of movable masses
- 37/06 • • using gyroscopes

39/00 Vehicle bodies not otherwise provided for

41/00 Fittings for identifying vehicles in case of collision; Fittings for marking or recording collision areas

43/00 Spare wheel stowing, holding, or mounting arrangements

- 43/02 • external to the vehicle body
- 43/04 • • attached beneath the vehicle body
- 43/06 • within the vehicle body
- 43/08 • • and arranged substantially vertical
- 43/10 • • and arranged substantially horizontal

Motor vehicles or trailers classified according to type: Parts or accessories thereof not otherwise provided for

47/00 Motor vehicles or trailers predominantly for carrying passengers

- (superstructures B62D 31/00) [3]
- 47/02 • for large numbers of passengers, e.g. omnibus

49/00 Tractors (of walk type B62D 51/04; endless-track features B62D 55/00)

- 49/02 • modified to take lifting devices
- 49/04 • modified to take pushing devices
- 49/06 • adapted for multi-purpose use
- 49/08 • having means for preventing overturning or tipping (safety devices for propulsion-unit control, specially adapted for, or arranged in, vehicles B60K 28/00) [4]

51/00 Motor vehicles characterised by the driver not being seated

- 51/02 • the driver standing in the vehicle
- 51/04 • the driver walking
- 51/06 • • Uniaxle walk-type tractors

53/00 Tractor-trailer combinations; Road trains (traction couplings other than fifth-wheel couplings B60D)

- 53/02 • comprising a uniaxle tractor unit and a uniaxle trailer unit
- 53/04 • comprising a vehicle carrying an essential part of the other vehicle's load by having supporting means for the front or rear part of the other vehicle
- 53/06 • • Semi-trailers
- 53/08 • • Fifth-wheel traction couplings
- 53/10 • • • with means for preventing accidental uncoupling
- 53/12 • • • engaging automatically

55/00 Endless-track vehicles (steering aspects B62D 11/00)

- 55/02 • with tracks and additional ground wheels
- 55/04 • with tracks and alternative ground wheels, e.g. changeable from endless-track vehicle into wheeled vehicle and vice versa

55/06	• with tracks and without ground wheels	57/02	• with ground-engaging propulsion means, e.g. walking members
55/065	• • Multi-track vehicles, i.e. more than two tracks [4]	57/024	• • specially adapted for moving on inclined or vertical surfaces (endless-track vehicles for ascending or descending stairs B62D 55/075; hand-carts with provision for travelling up or down stairs B62B 5/02) [5]
55/07	• • Mono-track vehicles [4]	57/028	• • having wheels and mechanical legs (B62D 57/024 takes precedence; ground-engaging vehicle fittings for supporting, lifting or manoeuvring the vehicle, wholly or in part B60S 9/00) [5]
55/075	• • Tracked vehicles for ascending or descending stairs (magnetic or pneumatic ground-engaging parts B62D 55/265; chairs or personal conveyances specially adapted for patients or disabled persons A61G 5/00) [4]	57/032	• • with alternately or sequentially lifted supporting base and leg; with alternately or sequentially lifted feet or skid (B62D 57/024 takes precedence) [5]
55/08	• Endless-track units; Parts thereof	57/036	• • screw type, e.g. Archimedian screw (B62D 57/024 takes precedence) [5]
55/084	• • Endless-track units or carriages mounted separably, adjustably or extensibly on vehicles, e.g. portable track units (B62D 55/07 takes precedence) [4]	57/04	• having other than ground-engaging propulsion means, e.g. having propellers (arrangement of jet-propulsion units B60K)
55/088	• • with means to exclude or remove foreign matter e.g. sealing means, self-cleaning track links or sprockets, deflector plates or scrapers [4]	59/00	Trailers with driven ground wheels or the like
55/092	• • with lubrication means (lubricating in general F16N) [4]	59/02	• driven from external propulsion unit
55/096	• • with noise reducing means [4]	59/04	• driven from propulsion unit on trailer
55/10	• • Bogies; Frames (track-tensioning means B62D 55/30)	61/00	Motor vehicles or trailers, characterised by the arrangement or number of wheels, not otherwise provided for, e.g. four wheels in diamond pattern
55/104	• • Suspension devices for wheels, rollers, bogies or frames (vehicle suspension in general B60G) [4]	61/02	• with two road wheels in tandem on the longitudinal centre line of the vehicle
55/108	• • • with mechanical springs, e.g. torsion bars [4]	61/04	• • with two other wheels which are coaxial
55/112	• • • with fluid springs, e.g. hydraulic, pneumatic [4]	61/06	• with only three wheels
55/116	• • • Attitude or position control of chassis by action on suspension, e.g. to compensate for a slope [4]	61/08	• • with single front wheel
55/12	• • Arrangement, location, or adaptation of driving sprockets	61/10	• with more than four wheels
55/125	• • • Final drives [4]	61/12	• with variable number of ground-engaging wheels, e.g. with some wheels arranged higher than others, or with retractable wheels (for manoeuvring purposes only B60S)
55/13	• • • readily interchangeable modular type [4]	63/00	Motor vehicles or trailers not otherwise provided for
55/135	• • • with dismountable driving crown [4]	63/02	• Motor vehicles
55/14	• • Arrangement, location, or adaptation of rollers	63/04	• • Component parts or accessories
55/15	• • • Mounting devices, e.g. bushings, axles, bearings, sealings [4]	63/06	• Trailers (vehicles comprising living accommodation for people, e.g. caravans, camping or like vehicles, B60P 3/32)
55/18	• • Tracks (self-cleaning track links B62D 55/088) [4]	63/08	• • Component parts or accessories
55/20	• • • of articulated type, e.g. chains		
55/205	• • • Connections between track links [4]	65/00	Designing, manufacturing, e.g. assembling, facilitating disassembly, or structurally modifying motor vehicles or trailers, not otherwise provided for
55/21	• • • • Links connected by transverse pivot pins [4]	65/02	• Joining sub-units or components to, or positioning sub-units or components with respect to, body shell or other sub-units or components [7]
55/215	• • • • Resilient connections between links [4]	65/04	• • Joining preassembled modular units composed of sub-units performing diverse functions, e.g. engine and bonnet (B62D 65/06-B62D 65/16 take precedence) [7]
55/22	• • • Arrangements for preventing or modifying back-flexing	65/06	• • the sub-units or components being doors, windows, openable roofs, lids, bonnets, or weather strips or seals therefor [7]
55/24	• • • of continuously-flexible type, e.g. rubber belts	65/08	• • • Weather strips or seals [7]
55/247	• • • Gas filled or inflatable flexible tracks (connection of valves to inflatable elastic bodies B60C 29/00) [4]	65/10	• • the sub-units or components being engines, clutches or transmissions [7]
55/253	• • • having elements interconnected by one or more cables or like elements [4]	65/12	• • the sub-units or components being suspensions, brakes or wheel units [7]
55/26	• • • Ground-engaging parts or elements		
55/265	• • • having magnetic or pneumatic adhesion [4]		
55/27	• • • having different types of crampons for progression over varying ground [4]		
55/275	• • • with street plate, i.e. means to prevent tread from cutting into road surface [4]		
55/28	• • • detachable		
55/30	• • Track-tensioning means		
55/32	• Assembly, disassembly, repair or servicing of endless-track systems [4]		
57/00	Vehicles characterised by having other propulsion or other ground-engaging means than wheels or endless track, alone or in addition to wheels or endless track (sledges B62B; motor sledges B62M) [5]		

B62D

65/14	<ul style="list-style-type: none">the sub-units or components being passenger compartment fittings, e.g. seats, linings, trim, instrument panels [7]	111/00	Forces disturbing the intended course of the vehicle, e.g. forces acting transversely of the direction of travel [5]
65/16	<ul style="list-style-type: none">the sub-units or components being exterior fittings, e.g. bumpers, lights, wipers [7]	113/00	Position of parts of the steering mechanism, e.g. the steered wheels or the steering wheel [5]
65/18	<ul style="list-style-type: none">Transportation, conveyor or haulage systems specially adapted for motor vehicle or trailer assembly lines [7]	115/00	Angle of articulation of articulated vehicle; Angle of tow-bar to towing vehicle [5]
67/00	Systematic disassembly of vehicles for recovery of salvageable components, e.g. for recycling (for disposal of vehicles by destroying or transformation B09B 3/00, B09B 5/00) [7]	117/00	Angular velocity of steering wheel [5]
		119/00	Steering wheel torque [5]
		121/00	Force applied to the steering linkage [5]
		123/00	Fluid pressure supply for vehicle equipment, e.g. for power-assisted steering; Presence, failure or threshold values thereof; Lubricating or other fluid capacities [5]
101/00	Road speed [5]	125/00	Particular gear ratio selected [5]
103/00	Acceleration or deceleration in the direction of travel [5]	127/00	Engine speed [5]
105/00	Loss of traction, e.g. wheel spin or skid [5]	131/00	Load, including height of vehicle dependent on load; State of vehicle vibration damping means [5]
107/00	Temperature [5]	133/00	Trim or inclination, including road gradient [5]
109/00	Presence, absence or inactivity of driver or operator, e.g. by sensing the operation of the clutch, brake or throttle [5]	135/00	Air moisture content [5]
		137/00	Conditions not specified in groups B62D 101/00-B62D 135/00 [5]

Indexing scheme associated with group B62D 6/00, but excluding groups B62D 6/02-B62D 6/10, relating to driving conditions sensed and responded to. [5]

B62H CYCLE STANDS; SUPPORTS OR HOLDERS FOR PARKING OR STORING CYCLES; APPLIANCES PREVENTING OR INDICATING UNAUTHORISED USE OR THEFT OF CYCLES; LOCKS INTEGRAL WITH CYCLES; DEVICES FOR LEARNING TO RIDE CYCLES

Note(s)

In this subclass, the following term is used with the meaning indicated:

- "cycles" includes scooters.

1/00	Supports or stands forming part of, or attached to, cycles	3/06	<ul style="list-style-type: none">collapsible
1/02	<ul style="list-style-type: none">Articulated stands, e.g. in the shape of hinged arms (B62H 1/10 takes precedence)	3/08	<ul style="list-style-type: none">involving recesses or channelled rails for embracing the bottom part of a wheel
1/04	<ul style="list-style-type: none">Substantially U-shaped stands for embracing the rear wheel	3/10	<ul style="list-style-type: none">involving forked supports or brackets embracing the bottom part of the frame
1/06	<ul style="list-style-type: none">Extensible stands, e.g. with telescopic parts (B62H 1/10 takes precedence)	3/12	<ul style="list-style-type: none">Hanging-up devices
1/08	<ul style="list-style-type: none">Pedal supports	5/00	Appliances preventing or indicating unauthorised use or theft of cycles; Locks integral with cycles (fittings for preventing or indicating use or theft of vehicles in general B60R; general features of locks E05B)
1/10	<ul style="list-style-type: none">involving means providing for a stabilised ride (training appliances or apparatus for cycling sport A63B 69/16)	5/02	<ul style="list-style-type: none">for locking the steering mechanism
1/12	<ul style="list-style-type: none">using additional wheels	5/04	<ul style="list-style-type: none">acting on the handle-bars or equivalent
1/14	<ul style="list-style-type: none">using runners for riding on ice or snow (runners for carrying wheeled vehicles to facilitate travel on ice or snow B62B 19/00)	5/06	<ul style="list-style-type: none">acting on the front wheel fork or steering head tube
3/00	Separate supports or holders for parking or storing cycles (cycle supports used during maintenance B25H; building aspects E04H)	5/08	<ul style="list-style-type: none">preventing the drive (by acting on powered drive B62M)
3/02	<ul style="list-style-type: none">involving means for gripping the cycle by the handle-bars or by the upper part of the frame	5/10	<ul style="list-style-type: none">acting on a pedal crank
3/04	<ul style="list-style-type: none">involving forked supports or brackets for holding a wheel (B62H 3/08 takes precedence)	5/12	<ul style="list-style-type: none">acting on the chain wheel or the chain
		5/14	<ul style="list-style-type: none">preventing wheel rotation
		5/16	<ul style="list-style-type: none">acting on parts of a road wheel
		5/18	<ul style="list-style-type: none">acting on a braking device (locking cycle brake actuating mechanisms B62L 3/06)

- 5/20 • indicating unauthorised use, e.g. acting on signalling devices

7/00 Devices for learning to ride cycles, not otherwise provided for, e.g. assisting balance

B62J CYCLE SADDLES OR SEATS; ACCESSORIES PECULIAR TO CYCLES AND NOT OTHERWISE PROVIDED FOR, e.g. ARTICLE CARRIERS OR CYCLE PROTECTORS (registration plates B60R 13/10; cyclometers, i.e. wheel-revolution counters, G01C 22/00)

Note(s)

In this subclass, the following term is used with the meaning indicated:

- "cycles" includes scooters.

Subclass index

SADDLES, SEATS; FOOT-RESTS, KNEE GRIPS.....	1/00, 25/00
LIGHTING OR SIGNALLING DEVICES; MIRROR ARRANGEMENTS.....	3/00, 6/00, 29/00
ARTICLE CARRIERS, ACCESSORIES.....	7/00, 9/00, 11/00
PROTECTING ARRANGEMENTS OR ACCESSORIES	
Chain-guards; mud-guards; parking covers.....	13/00, 15/00, 19/00
For rider only; weather guards, fairing; dress protectors; warming.....	17/00, 21/00, 33/00
Other protectors.....	23/00
SAFETY EQUIPMENT.....	27/00
INSTALLATIONS OF LUBRICATING DEVICES; OF FUEL TANKS; OF SUPPLY LINES.....	31/00, 35/00, 37/00
OTHER ACCESSORIES.....	99/00

- 1/00 Saddles or other seats for cycles; Arrangement thereof; Component parts** (arrangements or adaptations of vehicle seats in general B60N)
- 1/02 • Saddles resiliently mounted on the frame; Equipment therefor, e.g. springs (springs in general F16F)
- 1/04 • • Saddles capable of swinging about a horizontal pivot
- 1/06 • • Saddles capable of parallel motion up and down
- 1/08 • Frames for saddles; Connections between saddle frames and seat pillars; Seat pillars (attaching seat pillars to cycle frames B62K 19/36)
- 1/10 • Internal adjustment of saddles
- 1/12 • Box-shaped seats; Bench-type seats, e.g. dual or twin seats
- 1/14 • Separate pillions
- 1/16 • • for children
- 1/18 • Covers for saddles or other seats; Paddings (paddings in general B68G)
- 1/20 • • Detachable covers; Detachable pads
- 1/22 • • Covers with built-in paddings
- 1/24 • • Paddings involving torsional or bending springs
- 1/26 • • Paddings involving other resilient material, e.g. sponge rubber with inflatable compartments
- 1/28 • Other additional equipment, e.g. back rests for children

- 6/06 • Arrangement of lighting dynamos or drives therefor (dynamo construction H02K) [4]
- 6/08 • • Tyre drives [4]
- 6/10 • • Gear drives (B62J 6/12 takes precedence) [4]
- 6/12 • • Dynamos arranged in the wheel hub [4]
- 6/14 • • Belt drives [4]
- 6/16 • Arrangement of switches [4]
- 6/18 • Arrangement of electric cables [4]
- 6/20 • Arrangement of reflectors (pedals incorporating reflectors B62M 3/12) [4]

Article carriers

7/00 Luggage carriers

- 7/02 • characterised by the arrangement thereof on cycles
- 7/04 • • above or behind the rear wheel
- 7/06 • • above the front wheel, e.g. on the handle-bars
- 7/08 • Equipment for securing luggage on carriers

9/00 Panniers, saddle bags, or other containers specially adapted to be attached to cycles

- 9/02 • for tools or spare parts

11/00 Supporting devices for attaching articles of definite shape to cycles, e.g. for maps, umbrellas, bottles

- 11/02 • for pumps

Signal or lighting devices specially adapted for cycles

- 3/00 Acoustic signal or alarm devices** (acoustic signal or alarm devices in general G08); **Arrangement of such devices on cycles**
- 6/00 Arrangement of optical signalling or lighting devices on cycles, the mounting or supporting thereof or circuits therefor** (optical signalling or lighting devices per se F21, G08, H05) [4]
- 6/02 • the devices being headlights [4]
- 6/04 • the devices being rear lights [4]

Protectors; Fairings or streamlining parts not otherwise provided for

13/00 Guards for chain, chain drive, or equivalent drive, e.g. belt drive (chain guards forming part of cycle frames B62K 19/44)

- 13/02 • shielding only the upper run of the chain or the like
- 13/04 • completely enclosing the chain drive or the like
- 13/06 • • admitting ready access to the chain or the like

15/00 Mud-guards for wheels

B62J

15/02	• Fastening means; Stays		
15/04	• Mud flaps		
17/00	Weather guards for riders; Fairings or streamlining parts not otherwise provided for (protective clothing or garments A41D 13/00; crash helmets A42B 3/00; fairings forming part of frames B62K 19/48; fairings for sidecars B62K 27/04; hoods for sidecars B62K 27/16)	27/00	Safety equipment, e.g. crash bars (safety belts in general A62B 35/00)
17/02	• shielding only the rider's front	29/00	Adaptations or arrangements of mirrors for use on cycles (for vehicles in general B60R)
17/04	• • Windscreens	31/00	Installations of lubricating devices
17/06	• • Leg guards	33/00	Installations peculiar to cycles for warming riders (for vehicles in general B60H)
17/08	• Hoods protecting the rider	35/00	Fuel tanks specially adapted for motorcycles or engine-assisted cycles; Arrangements thereof (fuel tanks forming part of cycle frames B62K 11/00; tanks in general B65D)
19/00	Parking covers for cycles (convertible into protective garments for the rider A41D 15/04; convertible into camping articles A45F 4/00; for vehicles in general B60J 11/00)	37/00	Arrangements of fuel supply lines, taps, or the like, on motorcycles or engine-assisted cycles
21/00	Dress protectors, e.g. clips attached to the cycle (loose clips for trousers or skirts A41F 17/02)	99/00	Subject matter not provided for in other groups of this subclass [2009.01]
23/00	Other protectors specially adapted for cycles		
25/00	Foot-rests; Rigidly-mounted knee grips, e.g. on petrol tank		
B62K	CYCLES; CYCLE FRAMES; CYCLE STEERING DEVICES; RIDER-OPERATED TERMINAL CONTROLS SPECIALLY ADAPTED FOR CYCLES; CYCLE AXLE SUSPENSIONS; CYCLE SIDECARS, FORECARS, OR THE LIKE		

Subclass index

KINDS OF CYCLES

Characterised by construction:

number of wheels: unicycle; bicycle; with more than two wheels.....	1/00, 3/00, 5/00
with motor.....	11/00
sidecar, forecar.....	27/00
convertible; foldable.....	13/00, 15/00
Characterised by purpose: for transport; for children.....	7/00, 9/00
Other kinds.....	17/00

PARTS OF CYCLES

Frame; axle suspension.....	19/00, 25/00
Steering; terminal controls.....	21/00, 23/00

Note(s)

Groups B62K 7/00-B62K 15/00 take precedence over groups B62K 1/00-B62K 5/00, e.g. a child's bicycle is classified in group B62K 9/00 and not in group B62K 3/00.

1/00 Unicycles

3/00 Bicycles

- 3/02 • Frames (tandem frames B62K 3/14)
- 3/04 • • having a substantially-horizontal top bar
- 3/06 • • of open type
- 3/08 • • • having crossing members
- 3/10 • • of single-beam type, i.e. connecting steering head to rear axle
- 3/12 • Tandems
- 3/14 • • Frames
- 3/16 • specially adapted for disabled riders

5/00 Cycles with more than two main road wheels

(specially adapted for disabled persons A61G 5/00; cycle supports or stands equipped with additional wheels for ride stabilisation B62H 1/12)

- 5/02 • Tricycles
- 5/04 • • with two coaxial wheels
- 5/06 • • • Frames
- 5/08 • Steering devices acting on more than one wheel

7/00 Freight- or passenger-carrying cycles

- 7/02 • Frames
- 7/04 • • having a carrying platform (article-carrying accessories B62J 7/00-B62J 11/00)

9/00 Children's cycles (toy vehicles A63H 17/00)

- 9/02 • Tricycles

11/00 Motorcycles; Engine-assisted cycles; Motor-scooters

(fairings or streamlining parts, not forming part of frame B62J; transmission of drive from engine to wheels B62M)

11/02	• Frames (motorcycles or cycles with auxiliary engines characterised by position of engine B62M)	21/00	Steering devices (steering devices specially adapted for one particular kind of cycle specified in groups B62K 1/00-B62K 17/00, <u>see</u> the relevant group)
11/04	• • characterised by the engine being between front and rear wheels	21/02	• Front wheel forks or equivalent, e.g. single tine
11/06	• • • the frame being of single-beam type	21/04	• Fork crowns
11/08	• • • • the beam being fabricated from sheet metal, e.g. forming fuel tank walls	21/06	• Bearings specially adapted for steering heads (bearings in general F16C)
11/10	• • characterised by the engine being over or beside driven rear wheel	21/08	• Steering dampers (dampers in general F16F)
11/12	• Steering wheel forks characterised by the association therewith of engine	21/10	• Mechanisms for restoring steering device to straight-ahead position
11/14	• Handle-bar constructions, or arrangements of controls thereon, specially adapted thereto (hand controls <u>per se</u> B62K 23/02)	21/12	• Handle-bars; Handle-bar stems
13/00	Cycles convertible to, or transformable into, other types of cycles or land vehicles (convertible vehicles in general B60F 5/00; cycle supports or stands equipped with additional wheels for ride stabilisation B62H 1/12)	21/14	• • having resilient parts therein
13/02	• to a tandem	21/16	• • having adjustable parts therein
13/04	• to a tricycle	21/18	• Connections between forks and handle-bars or handle-bar stems
13/06	• to a quadricycle, e.g. by coupling together two bicycles side by side	21/20	• • resilient
13/08	• Frames	21/22	• • adjustable
15/00	Collapsible or foldable cycles	21/24	• • readily releasable
17/00	Cycles not otherwise provided for	21/26	• Handle-bar grips (twist grips B62K 23/04)
19/00	Cycle frames (cycle frames specially adapted for one particular kind of cycle specified in groups B62K 1/00-B62K 17/00, <u>see</u> the relevant group)	23/00	Rider-operated controls specially adapted for cycles, i.e. means for initiating control operations, e.g. levers, grips (specially adapted to cycle brake mechanisms B62L 3/00)
19/02	• characterised by material or cross-section of frame members	23/02	• hand-actuated (arrangements of controls on handle-bars of engine-driven cycles B62K 11/14)
19/04	• • the material being wholly or mainly metallic, e.g. of high elasticity	23/04	• • Twist grips
19/06	• • • tubular	23/06	• • Levers
19/08	• • • made from sheet	23/08	• foot-actuated
19/10	• • • Combinations of tube and sheet	25/00	Axle suspensions (for vehicles in general B60G)
19/12	• • • having cast members	25/02	• for mounting axles rigidly on cycle frame or fork, e.g. adjustably
19/14	• • the material being wholly or mainly wood	25/04	• for mounting axles resiliently on cycle frame or fork (for sidecars, forecars, or the like B62K 27/06)
19/16	• • the material being wholly or mainly of plastics	25/06	• • with telescopic fork, e.g. including auxiliary rocking arms
19/18	• Joints between frame members	25/08	• • • for front wheel
19/20	• • welded, soldered, or brazed	25/10	• • • for rear wheel
19/22	• • Adhesive joints	25/12	• • with rocking arm pivoted on each fork leg (in combination with telescopic fork B62K 25/06)
19/24	• • Screwed joints	25/14	• • • with single arm on each fork leg
19/26	• • Riveted joints	25/16	• • • • for front wheel
19/28	• • Means for strengthening joints	25/18	• • • • • the arm being pivoted intermediate its ends
19/30	• Frame parts shaped to receive other cycle parts or accessories (axle suspensions B62K 25/00)	25/20	• • • • • for rear wheel
19/32	• • Steering heads (bearings therefor B62K 21/06)	25/22	• • • with more than one arm on each fork leg
19/34	• • Bottom brackets	25/24	• • • • for front wheel
19/36	• • for attaching saddle pillars, e.g. adjustable during ride	25/26	• • • • for rear wheel
19/38	• • for attaching brake members	25/28	• • with pivoted chain-stay
19/40	• • for attaching accessories, e.g. article carriers, lamps	25/30	• • • pivoted on pedal crank shelf (B62K 25/32 takes precedence)
19/42	• • • for tyre pumps (attachment devices not forming part of frame B62J 11/02)	25/32	• • • the chain-stay forming a chain-guard
19/44	• Chain-guards forming part of frame (chain-guards <u>per se</u> B62J 13/00)	27/00	Sidecars; Forecars or the like (trailers B60P, B62D; characterised by carrying propulsion engine B62M)
19/46	• Luggage carriers forming part of frame (luggage carriers <u>per se</u> B62J 7/00)	27/02	• Frames
19/48	• Fairings forming part of frame	27/04	• Car bodies; Fairings
		27/06	• Resilient axle suspension
		27/08	• Resilient car-body suspension on frame
		27/10	• Other component parts or accessories
		27/12	• • Coupling parts for attaching cars or the like to cycle; Arrangements thereof
		27/14	• • • Resilient coupling parts
		27/16	• • Hoods; Weather-guards, e.g. windscreens

B62K

B62L BRAKES SPECIALLY ADAPTED FOR CYCLES

Note(s)

1. This subclass covers only adaptations of brakes or actuating mechanisms peculiar to their use on cycles.
2. This subclass does not cover brakes or actuating mechanisms of wider applicability, which are regarded as of general type, irrespective of whether described or claimed only for cycles, which are covered by subclass B60T or the relevant subclasses of class F16.

1/00	Brakes; Arrangements thereof (back-peddalling brakes B62L 5/00)	3/06	• Means for locking the actuating mechanisms (locking a cycle braking device directly B62H 5/18)
1/02	• in which cycle wheels are engaged by brake elements	3/08	• Mechanisms specially adapted for braking more than one wheel
1/04	• • the tyre surfaces being engaged		
1/06	• • the wheel-rim being engaged		
1/08	• • • by the elements moving radially relative to the wheel	5/00	Brakes, or actuating mechanisms therefor, controlled by back-peddalling (free-wheel devices specially adapted for cycles F16D 41/00)
1/10	• • • by the elements moving substantially parallel to the wheel axis	5/02	• the brakes being actuated through coacting coaxial cones
1/12	• • • • the elements being mounted on levers pivotable about a common axis	5/04	• • the brakes being of expanding-brake-bushing type
1/14	• • • • the elements being mounted on levers pivotable about different axes	5/06	• • the brakes being of disc type
1/16	• • • • • the axes being located intermediate the ends of the levers	5/08	• • the brakes being of shoe type
		5/10	• the brakes being actuated through coacting cams and balls or rollers
		5/12	• • the brakes being of expanding-brake-bushing type
3/00	Brake-actuating mechanisms (actuating mechanisms for back-peddalling brakes B62L 5/00; Bowden mechanisms F16C 1/10); Arrangements thereof	5/14	• • the brakes being of disc type
3/02	• for control by a hand lever (hand levers for control of cycles in general B62K 23/06)	5/16	• • the brakes being of shoe type
3/04	• for control by a foot lever (foot levers for control of cycles in general B62K 23/08)	5/18	• the brakes being additionally controlled by alternative means
		5/20	• the brakes having adjustable braking power

B62M RIDER PROPULSION OF WHEELED VEHICLES OR SLEDGES; POWERED PROPULSION OF SLEDGES OR CYCLES; TRANSMISSIONS SPECIALLY ADAPTED FOR SUCH VEHICLES (arrangements or mounting of transmissions in vehicles in general B60K; transmission elements per se F16)

Note(s)

In this subclass, the following term is used with the meaning indicated:

- "transmission" means all parts between the prime mover or the part to which a rider immediately applies propulsive effort, e.g. pedal cranks, and a driven ground wheel.

Subclass index

PROPULSION

Of wheeled vehicles by hand, foot or with additional source of power: kinds of mechanisms;
construction of propulsion cranks or levers.....1/00, 3/00, 5/00, 6/00
Of single-track vehicles by motor, characterised by position of engine.....7/00
Of sledges or the like.....27/00
Of wheeled vehicles or sledges, by ground-engaging means not otherwise provided for.....29/00

TRANSMISSIONS

Characterised by rigid mechanical parts thereof
chain or belt; toothed or friction wheel; friction roller.....9/00, 11/00, 13/00
crankshaft or coupling- rods; rotary shaft.....15/00, 17/00
Characterised by non-mechanical or non-rigid parts thereof.....19/00, 21/00, 23/00
Gearing speed-change actuators.....25/00

Rider propulsion of wheeled vehicles

1/00	Rider propulsion of wheeled vehicles (rider propulsion with additional source of power B62M 6/00; propulsion by ground-engaging rods B62M 29/02) [1, 2010.01]	1/02	• with rotary cranks, e.g. with pedal cranks (cranks <u>per se</u> B62M 3/00; immobilisable as foot-rests B62M 5/00)
		1/04	• with reciprocating levers, e.g. foot levers (immobilisable as foot-rests B62M 5/00)

- 1/06 • driving a rotary crankshaft connected to driven axle other than by coupling-rods
- 1/08 • • directly driving a ratchet wheel on driven axle
- 1/10 • involving devices which enable the mechanical storing and releasing of energy occasionally, e.g. arrangement of flywheels [1, 2010.01]
- 1/12 • operated both by hand and by foot
- 1/14 • exclusively by hand power (hand cranks per se B62M 3/00)
- 1/16 • • by means of a to-and-fro movable handle-bar
- 1/18 • by movement of rider's saddle
- 1/20 • • with additional rider propulsion means

3/00 Construction of cranks operated by hand or foot

- 3/02 • of adjustable length
- 3/04 • • automatically adjusting
- 3/06 • with elliptical or other non-circular rotary movement
- 3/08 • Pedals
- 3/10 • • All-metal pedals
- 3/12 • • with reflectors
- 3/14 • Hand-grips for hand-operated cranks
- 3/16 • Accessories

5/00 Foot-driven levers as pedal cranks which can be immobilised as foot-rests (immobilising against theft B62H 5/10)

6/00 Rider propulsion of wheeled vehicles with additional source of power, e.g. combustion engine or electric motor [2010.01]

Note(s) [2010.01]

In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place

- 6/10 • Rider propelled cycles with auxiliary combustion engine [2010.01]
- 6/15 • • Control or actuating devices therefor [2010.01]
- 6/20 • • power-driven at crank shaft parts [2010.01]
- 6/25 • • power-driven at axle parts [2010.01]
- 6/30 • • power-driven at single endless flexible member, e.g. chain, between cycle crankshaft and wheel axle, the engine engaging the endless flexible member [2010.01]
- 6/35 • • power-driven by friction rollers or gears engaging the ground wheel [2010.01]
- 6/40 • Rider propelled cycles with auxiliary electric motor [2010.01]
- 6/45 • • Control or actuating devices therefor [2010.01]
- 6/50 • • • characterised by detectors or sensors, or arrangement thereof [2010.01]
- 6/55 • • power-driven at crank shafts parts [2010.01]
- 6/60 • • power-driven at axle parts [2010.01]
- 6/65 • • • with axle and driving shaft arranged coaxially [2010.01]
- 6/70 • • power-driven at single endless flexible member, e.g. chain, between cycle crankshaft and wheel axle, the motor engaging the endless flexible member [2010.01]
- 6/75 • • power-driven by friction rollers or gears engaging the ground wheel [2010.01]
- 6/80 • Accessories, e.g. power sources; Arrangements thereof [2010.01]
- 6/85 • • Solar cells [2010.01]
- 6/90 • • Batteries [2010.01]

7/00 Motorcycles characterised by position of motor or engine (rider propulsion with addition source of power, e.g. auxiliary combustion engine or electric motor B62M 6/00; frames characterised by position of engine B62K 11/00) [1, 2010.01]

- 7/02 • with engine between front and rear wheels
- 7/04 • • below the frame
- 7/06 • • directly under the saddle or seat
- 7/08 • with the engine over the rear wheel
- 7/10 • with the engine over the front wheel
- 7/12 • with the engine beside or within the driven wheel
- 7/14 • with the engine on an auxiliary wheeled unit, e.g. trailer, sidecar (trailers B60P, B62D; sidecars B62K 27/00)

Transmissions

9/00 Transmissions characterised by use of an endless chain, belt, or the like (cycle chain guards B62J 13/00)

Note(s) [2010.01]

In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

- 9/02 • of unchangeable ratio
- 9/04 • of changeable ratio
- 9/06 • • using a single chain, belt, or the like
- 9/08 • • • involving eccentrically-mounted or elliptically-shaped driving or driven wheel; with expansible driving or driven wheel
- 9/10 • • • involving different-sized wheels selectively engaged by the chain, belt, or the like
- 9/12 • • • • the chain, belt, or the like being laterally shiftable
- 9/121 • • • • • Rear derailleurs [2010.01]
- 9/122 • • • • • electrically or fluid actuated; Controls thereof [2010.01]
- 9/123 • • • • • changing gears automatically [2010.01]
- 9/124 • • • • • Mechanisms for shifting laterally [2010.01]
- 9/1242 • • • • • characterised by the linkage mechanisms [2010.01]
- 9/1244 • • • • • limiting or positioning the movement [2010.01]
- 9/1246 • • • • • using cams or plates [2010.01]
- 9/1248 • • • • • characterised by the use of biasing means, e.g. springs; Arrangements thereof [2010.01]
- 9/125 • • • • • Mounting the derailleur on the frame [2010.01]
- 9/126 • • • • • Chain guides; Mounting thereof [2010.01]
- 9/127 • • • • • Mounting or guiding of cables [2010.01]
- 9/128 • • • • • Accessories, e.g. protectors [2010.01]
- 9/131 • • • • • Front derailleurs [2010.01]
- 9/132 • • • • • electrically or fluid actuated; Controls thereof [2010.01]
- 9/133 • • • • • changing gears automatically [2010.01]
- 9/134 • • • • • Mechanisms for shifting laterally [2010.01]
- 9/1342 • • • • • characterised by the linkage mechanisms [2010.01]

9/1344	• • • • • •	limiting or positioning the movement [2010.01]	15/00	Transmission characterised by use of crankshafts and coupling-rods
9/1346	• • • • • •	using cams or plates [2010.01]	17/00	Transmissions characterised by use of rotary shaft, e.g. cardan shaft
9/1348	• • • • • •	characterised by the use of biasing means, e.g. springs; Arrangements thereof [2010.01]	19/00	Transmissions characterised by use of non-mechanical gearing, e.g. fluid gearing
9/135	• • • • • •	Mounting the derailleur on the frame [2010.01]	21/00	Transmissions characterised by use of resilient elements therein
9/136	• • • • • •	Chain guides; Mounting thereof [2010.01]	23/00	Transmissions characterised by use of other elements; Other transmissions
9/137	• • • • • •	Mounting or guiding of cables [2010.01]	23/02	• characterised by the use of two or more dissimilar sources of power, e.g. transmissions for hybrid motorcycles (transmissions for wheeled vehicles using rider propulsion with additional source of power B62M 6/00) [1, 2010.01]
9/138	• • • • • •	Accessories, e.g. protectors [2010.01]	25/00	Actuators for gearing speed-change mechanisms specially adapted for cycles (rider-operated controls for cycles in general B62K 23/00; gearing speed-change mechanisms F16H)
9/14	• • • •	the wheels being laterally shiftable	25/02	• with mechanical transmitting systems, e.g. cables, levers
9/16	•	Tensioning or adjusting equipment for chains, belts, or the like	25/04	• • hand actuated
11/00		Transmissions characterised by use of interengaging toothed wheels or frictionally-engaging wheels (with roller engaging the periphery of ground wheel B62M 6/35, B62M 6/75, B62M 13/00)	25/06	• • foot actuated
11/02	•	of unchangeable ratio	25/08	• with electrical or fluid transmitting systems
11/04	•	of changeable ratio		
11/06	• •	with spur gear wheels (B62M 11/14 takes precedence)		
11/10	• •	with bevel gear wheels (B62M 11/14 takes precedence)		
11/12	• •	with frictionally-engaging wheels (B62M 11/14 takes precedence)		
11/14	• •	with planetary gears		
11/16	• • •	built in, or adjacent to, the ground-wheel hub		
11/18	• • •	with a plurality of planetary gear units		
13/00		Transmissions characterised by use of friction rollers engaging the periphery of the ground wheel (for rider propelled cycles with additional source of power B62M 6/35, B62M 6/75) [1, 2010.01]	27/00	Propulsion devices for sledges or the like (pushed or pulled by persons or animals B62B, B62C; wind propulsion B62B 15/00)
13/02	•	with changeable ratio, e.g. with roller of varying diameter	27/02	• power driven
13/04	•	with means for moving roller into driving contact with ground wheel	29/00	Ground-engaging propulsion devices for cycles, sledges, or rider-propelled wheeled vehicles, not otherwise provided for
			29/02	• using ground-engaging rods