

B62 LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS**B62B HAND-PROPELLED VEHICLES, E.G. HAND CARTS, PERAMBULATORS; SLEDGES****Note**

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,

PERAMBULATORS7/00, 9/00

SLEDGES

With runners; other types13/00; 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)

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]

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

7/02 . . 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
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
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)
13/02	. 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
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

Notes

- (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	7/00	Braking mechanisms and brake control devices specially adapted for animal-drawn vehicles
1/02	. Passenger vehicles	7/02	. Mechanisms for locking ground-engaging wheels, e.g. engaging spokes
1/04	. Load-carrying vehicles	7/04	. Automatic brake control devices
1/06	. . convertible, e.g. with extensible parts, with changeable wheel track	9/00	Carriers or holders for whips; Holders for reins forming part of, or attached to, vehicles (reins or whips <i>per se</i> B68B)
1/08	. Racing vehicles, e.g. sulkies	11/00	Safeguarding appliances not otherwise provided for, e.g. for readily-releasing unmanageable draught animals
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)	11/02	. Providing for disengaging thills
3/02	. Front wheel carriers; Bogies; Steering mechanisms for bogies	11/04	. . combined with automatic braking
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		

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

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 (steering devices applicable only to steerable undercarriages for aircraft B64C 25/50) [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

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

Group B62D 1/181 takes precedence over groups B62D 1/183 to B62D 1/187. [7]

- 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

When classifying in this group, classification is also made in the appropriate one of groups B62D 1/00 to B62D 5/00 or B62D 7/00 to B62D 19/00 if other aspects of the steering system are of interest. [5]

Note

In main group B62D 6/00, but excluding its subgroups, it is desirable to add the indexing codes of groups B62D 101/00 to B62D 137/00. [5]

- 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 . . . the pivotal axes being situated in more than one plane transverse to the longitudinal centre line of the vehicle, e.g. all-wheel steering
 - 7/15 . . . 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]
 - 7/16 . Arrangement of linkage connections (pivots per se F16C)
 - 7/18 . Steering knuckles; King-pins
 - 7/20 . Links, e.g. track rods (means for adjusting camber, castor, or toe-in B62D 17/00)
 - 7/22 . Arrangements for reducing or eliminating reaction, e.g. vibration, from parts, e.g. wheels, of the steering system [5]
 - 9/00 Steering deflectable wheels not otherwise provided for** (steering-position indicators B62D 15/02)
 - 9/02 . combined with means for inwardly-inclining vehicle body on bends
 - 9/04 . combined with means for inclining vehicle wheels on bends (B62D 9/02 takes precedence) [5]
 - 11/00 Steering non-deflectable wheels; Steering endless tracks or the like**
 - 11/02 . by differentially driving ground-engaging elements on opposite vehicle sides
 - 11/04 . . . by means of separate power sources
 - 11/06 . . . by means of a single main power source
 - 11/08 . . . using brakes or clutches as main steering-effecting means
 - 11/10 . . . using gearings with differential power outputs on opposite sides, e.g. twin- differential or epicyclic gears
 - 11/12 using separate change-speed gearings
 - 11/14 differential power outputs being effected by additional power supply to one side, e.g. power originating from secondary power source
 - 11/16 the additional power supply being supplied mechanically
 - 11/18 the additional power supply being supplied hydraulically
 - 11/10 . . . using gearings with differential power outputs on opposite sides, e.g. twin- differential or epicyclic gears
 - 11/12 using separate change-speed gearings
 - 11/14 differential power outputs being effected by additional power supply to one side, e.g. power originating from secondary power source
 - 11/16 the additional power supply being supplied mechanically
 - 11/18 the additional power supply being supplied hydraulically
 - 11/20 . Endless-track steering having pivoted bogie carrying track (B62D 11/02 takes precedence)
 - 11/22 . Endless-track steering being effected by deflecting endless-track rollers or the like
 - 11/24 . Endless-track steering specially adapted for vehicles having both steerable wheels and endless track
 - 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]
 - 12/02 . for vehicles operating in tandem [4]
 - 13/00 Steering specially adapted for trailers** (combined traction and steering hitches B60D)
 - 13/02 . for centrally-pivoted axles
 - 13/04 . for individually-pivoted wheels
 - 13/06 . for backing a normally-drawn trailer
 - 15/00 Steering not otherwise provided for**
 - 15/02 . Steering position indicators [4]
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- 17/00 Means on vehicle for adjusting camber, castor, or toe-in**

19/00 Radius rods, i.e. distance members

Understructures; Superstructures; Vehicle bodies

- 21/00 Understructures, i.e. chassis frame on which a vehicle body may be mounted** (combined frame and vehicle body B62D 23/00)
 - 21/02 . comprising longitudinally or transversely arranged frame members [4]
 - 21/03 . . . transverse members providing body support [4]
 - 21/04 . . . single longitudinal type
 - 21/05 . . . pinched frame type, i.e. formed of at least two longitudinal frame sections connected by other longitudinal frame sections of lesser transverse dimension [4]
 - 21/06 . 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
 - 21/07 . 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]
 - 21/08 . built-up with interlaced cross members ("Fachwerkrahmen")
 - 21/09 . Means for mounting load bearing surfaces [4]
 - 21/10 . in which the main member is plate-like
 - 21/11 . with resilient means for suspension [4]

Note

This group does not cover subject matter primarily relating to the suspension, with only a nominal recitation of frame structure, which is covered by subclass B60G. [4]

- 21/12 . assembled from readily-detachable parts
- 21/14 . of adjustable length or width
- 21/15 . 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]
 - 21/16 . having fluid storage compartment [4]
 - 21/17 . forming fluid or electrical conduit means or having other means to accommodate the transmission of a force or signal [4]
 - 21/18 . characterised by the vehicle type and not provided for in groups B62D 21/02 to B62D 21/17 [4]
 - 21/20 . . . trailer type, i.e. a frame specifically constructed for use in a non-powered vehicle [4]
- 23/00 Combined superstructure and frame, i.e. monocoque constructions** (superstructure sub-units B62D 25/00)
- 24/00 Connections between vehicle body and vehicle frame** (B62D 23/00, B62D 33/077 take precedence) [5]
 - 24/02 . Vehicle body, not intended to move relatively to the vehicle frame, and mounted on vibration absorbing mountings, e.g. rubber pads [5]
 - 24/04 . Vehicle body mounted on resilient suspension for movement relative to the vehicle frame [5]
- 25/00 Superstructure sub-units; Parts or details thereof not otherwise provided for**
 - 25/02 . Side panels
 - 25/04 . Door pillars
 - 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)

B62D

- 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 (understructures, i.e. chassis frames, characterised by the vehicle type B62D 21/18)

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
- 55/065 . . Multi-track vehicles, i.e. more than two tracks [4]
- 55/07 . . Mono-track vehicles [4]
- 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]

- 55/08 . . Endless-track units; Parts thereof
- 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]
- 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]
- 55/092 . . . with lubrication means (lubricating in general F16N) [4]
- 55/096 . . . with noise reducing means [4]
- 55/10 . . . Bogies; Frames (track-tensioning means B62D 55/30)
- 55/104 . . . Suspension devices for wheels, rollers, bogies or frames (vehicle suspension in general B60G) [4]
- 55/108 with mechanical springs, e.g. torsion bars [4]
- 55/112 with fluid springs, e.g. hydraulic, pneumatic [4]
- 55/116 Attitude or position control of chassis by action on suspension, e.g. to compensate for a slope [4]
- 55/12 . . . Arrangement, location, or adaptation of driving sprockets
- 55/125 Final drives [4]
- 55/13 readily interchangeable modular type [4]
- 55/135 with dismountable driving crown [4]
- 55/14 . . . Arrangement, location, or adaptation of rollers
- 55/15 Mounting devices, e.g. bushings, axles, bearings, sealings [4]
- 55/18 . . . Tracks (self-cleaning track links B62D 55/088) [4]
- 55/20 of articulated type, e.g. chains
- 55/205 Connections between track links [4]
- 55/21 Links connected by transverse pivot pins [4]
- 55/215 Resilient connections between links [4]
- 55/22 Arrangements for preventing or modifying back-flexing
- 55/24 of continuously-flexible type, e.g. rubber belts
- 55/247 Gas filled or inflatable flexible tracks (connection of valves to inflatable elastic bodies B60C 29/00) [4]
- 55/253 having elements interconnected by one or more cables or like elements [4]
- 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]**
- 57/02 . . with ground-engaging propulsion means, e.g. walking members
- 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]
- 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]
- 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]
- 57/036 . . . screw type, e.g. Archimedian screw (B62D 57/024 takes precedence) [5]
- 57/04 . . having other than ground-engaging propulsion means, e.g. having propellers (arrangement of jet-propulsion units B60K)
- 59/00 Trailers with driven ground wheels or the like**
- 59/02 . . driven from external propulsion unit
- 59/04 . . driven from propulsion unit on trailer
- 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**
- 61/02 . . with two road wheels in tandem on the longitudinal centre line of the vehicle
- 61/04 . . . with two other wheels which are coaxial
- 61/06 . . with only three wheels
- 61/08 . . . with single front wheel
- 61/10 . . with more than four wheels
- 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)
- 63/00 Motor vehicles or trailers not otherwise provided for**
- 63/02 . . Motor vehicles
- 63/04 . . . Component parts or accessories
- 63/06 . . Trailers (vehicles comprising living accommodation for people, e.g. caravans, camping or like vehicles, B60P 3/32)
- 63/08 . . . Component parts or accessories

- 65/00 Designing, manufacturing, e.g. assembling, facilitating disassembly, or structurally modifying motor vehicles or trailers, not otherwise provided for**
- 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]
- 65/04 . . . Joining preassembled modular units composed of sub-units performing diverse functions, e.g. engine and bonnet (B62D 65/06 to B62D 65/16 take precedence) [7]
- 65/06 . . . the sub-units or components being doors, windows, openable roofs, lids, bonnets, or weather strips or seals therefor [7]
- 65/08 Weather strips or seals [7]
- 65/10 . . . the sub-units or components being engines, clutches or transmissions [7]
- 65/12 . . . the sub-units or components being suspensions, brakes or wheel units [7]
- 65/14 . . . the sub-units or components being passenger compartment fittings, e.g. seats, linings, trim, instrument panels [7]
- 65/16 . . . the sub-units or components being exterior fittings, e.g. bumpers, lights, wipers [7]
- 65/18 . . Transportation, conveyor or haulage systems specially adapted for motor vehicle or trailer assembly lines [7]

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]

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

101/00 Road speed [5]

103/00 Acceleration or deceleration in the direction of travel [5]

105/00 Loss of traction, e.g. wheel spin or skid [5]

107/00 Temperature [5]

109/00 Presence, absence or inactivity of driver or operator, e.g. by sensing the operation of the clutch, brake or throttle [5]

111/00 Forces disturbing the intended course of the vehicle, e.g. forces acting transversely of the direction of travel [5]

113/00 Position of parts of the steering mechanism, e.g. the steered wheels or the steering wheel [5]

115/00 Angle of articulation of articulated vehicle; Angle of tow-bar to towing vehicle [5]

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]

125/00 Particular gear ratio selected [5]

127/00 Engine speed [5]

131/00 Load, including height of vehicle dependent on load; State of vehicle vibration damping means [5]

133/00 Trim or inclination, including road gradient [5]

135/00 Air moisture content [5]

137/00 Conditions not specified in groups B62D 101/00 to B62D 135/00 [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

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

1/02 . Articulated stands, e.g. in the shape of hinged arms (B62H 1/10 takes precedence)

1/04 . . Substantially U-shaped stands for embracing the rear wheel

1/06 . Extensible stands, e.g. with telescopic parts (B62H 1/10 takes precedence)

1/08 . Pedal supports

1/10 . involving means providing for a stabilised ride (training appliances or apparatus for cycling sport A63B 69/16)

1/12 . . using additional wheels

1/14 . . using runners for riding on ice or snow (runners for carrying wheeled vehicles to facilitate travel on ice or snow B62B 19/00)

3/00 Separate supports or holders for parking or storing cycles (cycle supports used during maintenance B25H; building aspects E04H)

3/02 . involving means for gripping the cycle by the handle-bars or by the upper part of the frame

3/04 . involving forked supports or brackets for holding a wheel (B62H 3/08 takes precedence)

3/06 . . collapsible

3/08 . involving recesses or channelled rails for embracing the bottom part of a wheel

3/10 . involving forked supports or brackets embracing the bottom part of the frame

3/12 . Hanging-up devices

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)

5/02 . for locking the steering mechanism

5/04 . . acting on the handle-bars or equivalent

5/06 . . acting on the front wheel fork or steering head tube

5/08 . preventing the drive (by acting on powered drive B62M)

5/10 . . acting on a pedal crank

5/12 . . acting on the chain wheel or the chain

5/14 . preventing wheel rotation

5/16 . . acting on parts of a road wheel

5/18 . . 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, CYCLE PROTECTORS

Note

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

- “cycles” includes scooters.

Subclass Index

SADDLES, SEATS; FOOT-RESTS, KNEE		For rider only; weather guards,
GRIPS	1/00; 25/00	fairing; dress protectors; warming 17/00; 21/00;
LIGHTING OR SIGNALLING DEVICES;		33/00
MIRROR ARRANGEMENTS	3/00, 6/00;	Other protectors
	29/00	23/00
ARTICLE CARRIERS, ACCESSORIES	7/00, 9/00,	SAFETY EQUIPMENT
	11/00	27/00
PROTECTING ARRANGEMENTS OR		INSTALLATIONS OF LUBRICATING
ACCESSORIES		DEVICES; OF FUEL TANKS; OF SUPPLY
Chain-guards; mud-guards; parking		LINES
covers	13/00; 15/00;	31/00; 35/00;
	19/00	37/00
		OTHER ACCESSORIES
		39/00

1/00	Saddles or other seats for cycles; Arrangement thereof; Component parts (arrangements or adaptations of vehicle seats in general B60N)	6/06	. Arrangement of lighting dynamos or drives therefor (dynamo construction H02K) [4]
1/02	. Saddles resiliently mounted on the frame; Equipment therefor, e.g. springs (springs in general F16F)	6/08	. . Tyre drives [4]
1/04	. . Saddles capable of swinging about a horizontal pivot	6/10	. . Gear drives (B62J 6/12 takes precedence) [4]
1/06	. . Saddles capable of parallel motion up and down	6/12	. . Dynamos arranged in the wheel hub [4]
1/08	. Frames for saddles; Connections between saddle frames and seat pillars; Seat pillars (attaching seat pillars to cycle frames B62K 19/36)	6/14	. . Belt drives [4]
1/10	. Internal adjustment of saddles	6/16	. Arrangement of switches [4]
1/12	. Box-shaped seats; Bench-type seats, e.g. dual or twin seats	6/18	. Arrangement of electric cables [4]
1/14	. Separate pillions	6/20	. Arrangement of reflectors (pedals incorporating reflectors B62M 3/12) [4]
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		

Signal or lighting devices specially adapted for cycles

(arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q)

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]

Article carriers (for vehicles in general B60R)

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

Protectors; Fairings or streamlining parts not otherwise

provided for (guards forming parts of cycle frames B62K; guards in general F16P)

13/00	Guards for chain, chain drive, or equivalent drive, e.g. belt drive
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
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; hoods or fairings for sidecars B62K)	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)	39/00	Other accessories, e.g. carrying-handles (registration plates B60R; cyclometers, i.e. wheel-revolution counters, G01C 22/00)
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

Groups B62K 7/00 to B62K 15/00 take precedence over groups B62K 1/00 to 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 to 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)
11/04	. . characterised by the engine being between front and rear wheels
11/06	. . . the frame being of single-beam type
11/08	. . . . the beam being fabricated from sheet metal, e.g. forming fuel tank walls
11/10	. . characterised by the engine being over or beside driven rear wheel

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

B62L BRAKES SPECIALLY ADAPTED FOR CYCLES**Notes**

- (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	5/00	Brakes, or actuating mechanisms therefor, controlled by back-peddalling (free-wheel devices specially adapted for cycles F16D 41/00)
1/08	. . . by the elements moving radially relative to the wheel	5/02	. the brakes being actuated through coaxial cones
1/10	. . . by the elements moving substantially parallel to the wheel axis	5/04	. . the brakes being of expanding-brake-bushing type
1/12	. . . . the elements being mounted on levers pivotable about a common axis	5/06	. . the brakes being of disc type
1/14	. . . . the elements being mounted on levers pivotable about different axes	5/08	. . the brakes being of shoe type
1/16	. . . . . the axes being located intermediate the ends of the levers	5/10	. the brakes being actuated through coaxial cams and balls or rollers
3/00	Brake-actuating mechanisms (actuating mechanisms for back-peddalling brakes B62L 5/00; Bowden mechanisms F16C 1/10); Arrangements thereof	5/12	. . the brakes being of expanding-brake-bushing type
3/02	. for control by a hand lever (hand levers for control of cycles in general B62K 23/06)	5/14	. . the brakes being of disc type
3/04	. for control by a foot lever (foot levers for control of cycles in general B62K 23/08)	5/16	. . the brakes being of shoe type
		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

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 or foot: kinds of mechanisms; construction of propulsion cranks or levers..... 1/00; 3/00, 5/00

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 for29/00

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 (propulsion by ground-engaging rods B62M 29/02)

1/00 Rider propulsion of wheeled vehicles

- 1/02 . with rotary cranks, e.g. with pedal cranks (cranks per se 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 storing and releasing of energy occasionally, e.g. arrangement of flywheels
- 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)

7/00 Motorcycles or cycles with auxiliary engines characterised by position of engine (frames characterised by position of engine B62K 11/00; internal-combustion engines per se F02B; kick-starter mechanisms or the like F02N)

- 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)

- 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
- 9/14 the wheels being laterally shiftable
- 9/16 . Tensioning or adjusting equipment for chains, belts, or the like

11/00 Transmissions characterised by use of interengaging toothed wheels or frictionally-engaging wheels (with roller engaging the periphery of ground wheel B62M 13/00)

- 11/02 . of unchangeable ratio
- 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 roller engaging the periphery of the ground wheel

- 13/02 . with changeable ratio, e.g. with roller of varying diameter
- 13/04 . with means for moving roller into driving contact with ground wheel

15/00 Transmission characterised by use of crankshafts and coupling-rods

17/00 Transmissions characterised by use of rotary shaft, e.g. cardan shaft

19/00 Transmissions characterised by use of non-mechanical gearing, e.g. fluid gearing

21/00 Transmissions characterised by use of resilient elements therein

23/00 Transmissions characterised by use of other elements; Other transmissions

- 23/02 . characterised by the use of two or more dissimilar sources of power, e.g. engine and pedal

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)

- 25/02 . with mechanical transmitting systems, e.g. cables, levers
- 25/04 . . hand actuated
- 25/06 . . foot actuated
- 25/08 . with electrical or fluid transmitting systems

27/00 Propulsion devices for sledges or the like (pushed or pulled by persons or animals B62B, B62C; wind propulsion B62B 15/00)

- 27/02 . power driven

29/00 Ground-engaging propulsion devices for cycles, sledges, or rider-propelled wheeled vehicles, not otherwise provided for

- 29/02 . using ground-engaging rods