

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B62 LAND VEHICLES FOR TRAVELLING OTHERWISE THAN ON RAILS

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](#); motor-cycles, accessories therefor [B62J](#), [B62K](#); testing of vehicles [G01M](#))

NOTE

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

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

WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

B62D 25/13	covered by	B60J 1/20 , B60R 13/07
B62D 25/22	covered by	B60R 3/00
B62D 65/08	covered by	B60J 10/45
B62D 101/00 - B62D 137/00	covered by	B62D 6/00 - B62D 6/008
- In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Steering of motor vehicles or trailers

1/00	Steering controls, i.e. means for initiating a change of direction of the vehicle	1/065	. . . . {Steering wheels with heating and ventilating means (heating and ventilation of steering wheel when connected to vehicle HVAC B60H 1/00292)}
1/02	. vehicle-mounted	1/08	. . . Spokes, e.g. resilient (B62D 1/11 takes precedence)
1/04	. . Hand wheels	1/10	. . . Hubs; Connecting hubs to steering columns, e.g. adjustable (B62D 1/11 takes precedence)
1/043	. . . {with a device allowing single-hand operation of the steering wheel}	1/105	. . . . {Non-rotatable hubs, e.g. the central part of the steering wheel not rotating}
1/046	. . . {Adaptations on rotatable parts of the steering wheel for accommodation of switches}	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)
1/06	. . . Rims, e.g. with heating means; Rim covers (B62D 1/11 takes precedence)		

- 1/12 . . Hand levers
- 1/14 . . . Tillers, i.e. hand levers operating on steering columns
- 1/16 . . Steering columns
- 1/163 . . . {Part of the steering column replaced by flexible means, e.g. cable or belt}
- 1/166 . . . {Means changing the transfer ratio between steering wheel and steering gear}
- 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](#) - [B62D 1/187](#).
- 1/181 with power actuated adjustment, e.g. with position memory
- 1/183 adjustable between in-use and out-of-use positions, e.g. to improve access
- 1/184 Mechanisms for locking columns at selected positions
- 1/185 adjustable by axial displacement, e.g. telescopically ([B62D 1/183](#), [B62D 1/187](#), [B62D 1/19](#) take precedence)
- 1/187 with tilt adjustment; with tilt and axial adjustment ([B62D 1/183](#), [B62D 1/19](#) takes precedence)
- 1/189 the entire column being tiltable as a unit
- 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](#))
- 1/192 {Yieldable or collapsible columns}
- 1/195 {Yieldable supports for the steering column}
- 1/197 {incorporating devices for preventing ingress of the steering column into the passengers space in case of accident}
- 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](#))
- 1/265 . . . {especially adapted for guiding road vehicles carrying loads or passengers, e.g. in urban networks for public transportation}
- 1/28 . . non-mechanical {, e.g. following a line or other known markers}
- 1/283 . . . {for unmanned vehicles}
- 1/286 . . . {Systems for interrupting non-mechanical steering due to driver intervention}
- 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
- 3/123 {characterised by pressure yokes}
- 3/126 {characterised by the rack}
- 3/14 . hydraulic
- 5/00 Power-assisted or power-driven steering (for non-deflectable wheels [B62D 11/00](#); fluid-pressure servomotors in general [F15B](#))**
- 5/001 . {Mechanical components or aspects of steer-by-wire systems, not otherwise provided for in this maingroup}
- 5/003 . . {Backup systems, e.g. for manual steering ([B62D 5/30](#) takes precedence)}
- 5/005 . . {means for generating torque on steering wheel or input member, e.g. feedback}
- 5/006 {power actuated}
- 5/008 . {Changing the transfer ratio between the steering wheel and the steering gear by variable supply of energy, e.g. by using a superposition gear}
- 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
- 5/0403 . . {characterised by constructional features, e.g. common housing for motor and gear box}
- 5/0406 {including housing for electronic control unit}
- 5/0409 . . {Electric motor acting on the steering column}
- 5/0412 . . . {the axes of motor and steering column being parallel}
- 5/0415 {the axes being coaxial}
- 5/0418 . . {Electric motor acting on road wheel carriers}
- 5/0421 . . {Electric motor acting on or near steering gear}
- 5/0424 . . . {the axes of motor and final driven element of steering gear, e.g. rack, being parallel}
- 5/0427 {the axes being coaxial}
- 5/043 . . {characterised by clutch means between driving element, e.g. motor, and driven element, e.g. steering column or steering gear}
- 5/0433 . . . {the clutch being of on-off type}
- 5/0436 {the clutch being a controlled emergency clutch, e.g. for disconnecting at motor breakdown}
- 5/0439 . . . {Controllable friction clutches ([B62D 5/0436](#) takes precedence)}
- 5/0442 . . {Conversion of rotational into longitudinal movement}
- 5/0445 . . . {Screw drives}
- 5/0448 {Ball nuts}
- 5/0451 . . . {Roller spindle drives}
- 5/0454 . . . {Worm gears}
- 5/0457 . . {characterised by control features of the drive means as such}
- 5/046 . . . {Controlling the motor}
- 5/0463 {calculating assisting torque from the motor based on driver input}
- 5/0466 {for returning the steering wheel to neutral position}
- 5/0469 {End-of-stroke control}
- 5/0472 {for damping vibrations}
- 5/0475 . . . {Controlling other elements}
- 5/0478 {Clutches}
- 5/0481 . . . {monitoring the steering system, e.g. failures}
- 5/0484 {for reaction to failures, e.g. limp home}

- 5/0487 {detecting motor faults ([B62D 5/0496](#) takes precedence)}
- 5/049 {detecting sensor failures}
- 5/0493 {detecting processor errors, e.g. plausibility of steering direction}
- 5/0496 {by using a temperature sensor}
- 5/06 . . fluid, i.e. using a pressurised fluid for most or all the force required for steering a vehicle
- 5/061 . . {provided with effort, steering lock, or end-of-stroke limiters}
- 5/062 . . {Details, component parts}
- 5/063 . . . {Pump driven by vehicle engine ([B62D 5/065](#) takes precedence)}
- 5/064 . . . {Pump driven independently from vehicle engine, e.g. electric driven pump ([B62D 5/065](#) takes precedence)}
- 5/065 . . characterised by specially adapted means for varying pressurised fluid supply based on need, e.g. on-demand, variable assist
- 5/07 . . Supply of pressurised fluid for steering also supplying other consumers {; control thereof}
- 5/075 . . . {using priority valves}
- 5/08 . . characterised by type of {steering} valve used (valves in general [F16K](#))
- 5/081 . . . {Seat valves}
- 5/083 . . . Rotary valves
- 5/0832 {with elastic means other than a torsion bar, e.g. leaf springs}
- 5/0835 {characterised by means for actively influencing the deflection angle of the valve, e.g. depending on driving parameters}
- 5/0837 {characterised by the shape of the control edges, e.g. to reduce noise}
- 5/087 . . . Sliding spool valves
- 5/09 . . characterised by means for actuating valves
- 5/091 . . . {Hydraulic steer-by-wire systems, e.g. the valve being actuated by an electric motor}
- 5/092 {the electric motor being connected to the final driven element of the steering gear, e.g. rack}
- 5/093 . . . Telemotor driven by steering wheel movement ([hydraulic steering gear B62D 3/14](#))
- 5/097 gerotor type
- 5/10 . . characterised by type of power unit
- 5/12 . . . Piston and cylinder
- 5/14 . . . Rotary motor
- 5/16 . . . Expansible chamber with flexible wall
- 5/18 . . characterised by power transmitting means
- 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](#))
- 5/22 . . . for rack-and-pinion type
- 5/24 . . . for worm type
- 5/26 . . . for pivoted axles
- 5/28 . . . for pivoted bogies
- 5/30 . . Safety devices, e.g. alternate emergency power supply or transmission means to ensure steering upon failure of the primary steering means
- 5/32 . . . for telemotor systems

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](#))

NOTE

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

- 6/001 . . {the torque NOT being among the input parameters}
- 6/002 . . {computing target steering angles for front or rear wheels ([B62D 7/159](#) takes precedence)}
- 6/003 . . {in order to control vehicle yaw movement, i.e. around a vertical axis ([B62D 6/007](#) takes precedence)}
- 6/005 . . . {treating sensor outputs to obtain the actual yaw rate}
- 6/006 . . {using a measured or estimated road friction coefficient}
- 6/007 . . {adjustable by the driver, e.g. sport mode}
- 6/008 . . {Control of feed-back to the steering input member, e.g. simulating road feel in steer-by-wire applications}
- 6/02 . . responsive only to vehicle speed
- 6/04 . . responsive only to forces disturbing the intended course of the vehicle, e.g. forces acting transversely to the direction of vehicle travel
- 6/06 . . responsive only to vehicle vibration dampening arrangements ([steering dampers for cycles B62K 21/08](#))
- 6/08 . . responsive only to {driver} input torque
- 6/10 . . characterised by means for sensing {or determining} torque
- 7/00 Steering linkage; Stub axles or their mountings ([B62D 13/00](#) takes precedence; power-assisted or power-driven steering [B62D 5/00](#))**
- 7/02 . . for pivoted bogies
- 7/023 . . . {Steering turntables}
- 7/026 . . {characterised by comprising more than one bogie, e.g. situated in more than one plane transversal to the longitudinal centre line of the vehicle}
- 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](#))
- 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
- 7/142 . . . {specially adapted for particular vehicles, e.g. tractors, carts, earth-moving vehicles, trucks}

7/144	. . . . {for vehicles with more than two axles}	11/00	Steering non-deflectable wheels; Steering endless tracks or the like
7/146	. . . {characterised by comprising means for steering by acting on the suspension system, e.g. on the mountings of the suspension arms}		NOTE
7/148	. . . {provided with safety devices}		Gearings of interest apart from this application are also classified in the relevant group of subclass F16H covering gearings <i>per se</i>
7/15	. . . characterised by means varying the ratio between the steering angles of the steered wheels {(B62D 7/148 takes precedence)}	11/001	. {control systems (B62D 11/183 takes precedence)}
7/1509	. . . . {with different steering modes, e.g. crab-steering, or steering specially adapted for reversing of the vehicle}		NOTE
7/1518	. . . . {comprising a mechanical interconnecting system between the steering control means of the different axles}		{When classifying in this group, classification is also made in the appropriate one of groups B62D 11/02 - B62D 11/24 if other aspects of the steering system are of interest}
7/1527	. . . . . {comprising only mechanical parts, i.e. without assistance means}	11/003	. . {Electric or electronic control systems}
7/1536	. . . . . {provided with hydraulic assistance}	11/005	. . {Hydraulic control systems}
7/1545	. . . . . {provided with electrical assistance}	11/006	. . {Mechanical control systems}
7/1554	. . . . . {comprising a fluid interconnecting system between the steering control means of the different axles}	11/008	. . {Pneumatic control systems}
7/1563	. . . . . {provided with fluid control means (B62D 7/1572 takes precedence)}	11/02	. by differentially driving ground-engaging elements on opposite vehicle sides
7/1572	. . . . . {provided with electro-hydraulic control means}	11/04	. . by means of separate power sources
7/1581	. . . . . {characterised by comprising an electrical interconnecting system between the steering control means of the different axles}	11/06	. . by means of a single main power source
7/159	. . . . . {characterised by computing methods or stabilisation processes or systems, e.g. responding to yaw rate, lateral wind, load, road condition}	11/08	. . . using brakes or clutches as main steering-effecting means
7/16	. Arrangement of linkage connections (pivots <i>per se</i> F16C)	11/10	. . . using gearings with differential power outputs on opposite sides, e.g. twin-differential or epicyclic gears
7/163	. . {substantially in axial direction, e.g. between rack bar and tie-rod}	11/105	. . . . {using variable ratio belt and pulley gearings}
7/166	. . {substantially perpendicular, e.g. between tie-rod and steering knuckle}	11/12	. . . . using separate change-speed gearings
7/18	. Steering knuckles; King pins	11/14	. . . . differential power outputs being effected by additional power supply to one side, e.g. power originating from secondary power source
7/20	. Links, e.g. track rods (means for adjusting camber, castor, or toe-in B62D 17/00)	11/16	. . . . . the additional power supply being supplied mechanically
7/22	. Arrangements for reducing or eliminating reaction, e.g. vibration, from parts, e.g. wheels, of the steering system	11/18	. . . . . the additional power supply being supplied hydraulically
7/222	. . {acting on the steering wheel}	11/183	. . . . . {Control systems therefor}
7/224	. . {acting between the steering wheel and the steering gear, e.g. on the steering column}	11/186	. . . . . {Uncoupling devices for the hydraulic motors, e.g. to allow towing}
7/226	. . {acting on the steering gear}	11/20	. Endless-track steering having pivoted bogie carrying track (B62D 11/02 takes precedence)
7/228	. . {acting between the steering gear and the road wheels, e.g. on tie-rod}	11/22	. Endless track steering being effected by deflecting endless track rollers or the like
9/00	Steering deflectable wheels not otherwise provided for (steering position indicators B62D 15/02)	11/24	. Endless track steering specially adapted for vehicles having both steerable wheels and endless track
9/002	. {combined with means for differentially distributing power on the deflectable wheels during cornering}	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)
9/005	. {Emergency systems using brakes for steering}	12/02	. for vehicles operating in tandem
9/007	. {Emergency systems using the steering system for braking}	13/00	Steering specially adapted for trailers (combined traction and steering hitches B60D)
9/02	. combined with means for inwardly inclining vehicle body on bends	13/005	. {operated from tractor steering system}
9/04	. combined with means for {inwardly} inclining wheels on bends (B62D 9/02 takes precedence)	13/02	. for centrally-pivoted axles
		13/025	. . {the pivoted movement being initiated by the coupling means between tractor and trailer}
		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 {; Steering position determination; Steering aids}	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
15/0205	• • {Mechanical indicators, e.g. in or near steering wheel}	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
15/021	• • {Determination of steering angle}	21/08	• built up with interlaced cross members
15/0215	• • • {by measuring on the steering column}	21/09	• Means for mounting load bearing surfaces
15/022	• • • • {on or near the connection between the steering wheel and steering column}	21/10	• in which the main member is plate-like
15/0225	• • • {by measuring on a steering gear element, e.g. on a rack bar}	21/11	• with resilient means for suspension {, e.g. of wheels or engine; sub-frames for mounting engine or suspensions}
15/023	• • • {by measuring on the king pin}	NOTE	
15/0235	• • • {by measuring or deriving directly at the electric power steering motor}	This group <u>does not cover</u> subject matter primarily relating to the suspension, with only a nominal recitation of frame structure, which are covered by subclass B60G	
15/024	• • • {Other means for determination of steering angle without directly measuring it, e.g. deriving from wheel speeds on different sides of the car}	21/12	• assembled from readily detachable parts
15/0245	• • • {Means or methods for determination of the central position of the steering system, e.g. straight ahead position}	21/14	• of adjustable length or width
15/025	• • {Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation (B62D 1/28 takes precedence)}	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)
15/0255	• • • {Automatic changing of lane, e.g. for passing another vehicle}	21/152	• • {Front or rear frames}
15/026	• • • {combined with automatic distance control, i.e. electronic tow bar}	21/155	• • • {Sub-frames or underguards}
15/0265	• • • {Automatic obstacle avoidance by steering}	21/157	• • {for side impacts}
15/027	• • {Parking aids, e.g. instruction means}	21/16	• having fluid storage compartment
15/0275	• • • {by overlaying a vehicle path based on present steering angle over an image without processing that image}	21/17	• forming fluid or electrical conduit means or having other means to accommodate the transmission of a force or signal
15/028	• • • {Guided parking by providing commands to the driver, e.g. acoustically or optically}	21/18	• characterised by the vehicle type and not provided for in groups B62D 21/02 - B62D 21/17
15/0285	• • • {Parking performed automatically}	21/183	• • {specially adapted for sports vehicles, e.g. race, dune buggies, go-karts (tubular skeleton B62D 23/005)}
15/029	• • {Steering assistants using warnings or proposing actions to the driver without influencing the steering system}	21/186	• • {for building site vehicles or multi-purpose tractors (tracked vehicles B62D 55/10 ; tractors in general B62D 49/00 ; building site vehicles in general E02F ; lift-trucks B66F)}
15/0295	• • • {by overlaying a vehicle path based on present steering angle over an image without processing that image}	21/20	• • trailer type, i.e. a frame specifically constructed for use in a non-powered vehicle
<hr/>		23/00	Combined superstructure and frame, i.e. monocoque constructions ({ having impact absorbing means B62D 21/15 ; } superstructure {or monocoque structure} sub-units {or parts or details thereof} B62D 25/00 {; characterised by the material thereof B62D 29/00 })
17/00	Means on vehicles for adjusting camber, castor, or toe-in	23/005	• {with integrated chassis in the whole shell, e.g. meshwork, tubes, or the like (B62D 33/044 takes precedence)}
19/00	Radius rods, i.e. distance members	24/00	Connections between vehicle body and vehicle frame (B62D 23/00 , B62D 33/077 take precedence)
Understructures; Superstructures; Vehicle bodies		24/02	• Vehicle body, not intended to move relatively to the vehicle frame, and mounted on vibration absorbing mountings, e.g. rubber pads
21/00	Understructures, i.e. chassis frame on which a vehicle body may be mounted (combined frame and vehicle body B62D 23/00 {; characterised by the material thereof B62D 29/00 })	24/04	• Vehicle body mounted on resilient suspension for movement relative to the vehicle frame
21/02	• comprising longitudinally or transversely arranged frame members		
21/03	• • transverse members providing body support		
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		

- 25/00 Superstructure {or monocoque structure} sub-units; Parts or details thereof not otherwise provided for** {(having impact absorbing means [B62D 21/15](#); running-boards, steps, or the like as superstructure sub-unit [B60R 3/00](#))}
- 25/02 . Side panels {([B62D 33/046](#) takes precedence; sideboards for open load compartments [B62D 33/023](#))}
- 25/025 . . {Side sills thereof}
- 25/04 . Door pillars {; windshield pillars}
- 25/06 . Fixed roofs (non-fixed roofs or like shelters [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
- 25/08 . Front or rear portions {(sub-frames for mounting engine or suspensions [B62D 21/11](#))}
- 25/081 . . {Cows (ventilating openings situated directly in front of the vehicle front window [B60H 1/28](#))}
- 25/082 . . {Engine compartments}
- 25/084 . . . {Radiator supports}
- 25/085 . . . {Front-end modules}
- 25/087 . . {Luggage compartments}
- 25/088 . . {Details of structures as upper supports for springs or dampers}
- 25/10 . . Bonnets or lids {, e.g. for trucks, tractors, busses, work vehicles (for truck beds [B60J 7/1607](#); for boats [B63B 19/12](#); doors arranged at the vehicle rear [B60J 5/10](#); inlet covers for vehicle fuel tanks [B60K 15/05](#); for protecting non-occupants of a vehicle [B60R 21/38](#))}
- 25/105 . . . {for motor cars}
- 25/12 . . . Parts or details thereof (locks [E05B](#), {[E05B 83/16](#); devices for holding open [E05C 17/00](#), e.g. while carrying oversize objects [E05C 17/042](#)}; hinges [E05D](#); counterbalancing means [E05F](#); {checks, stops, buffers [E05F 5/00](#); } springs, {e.g. pneumatic springs} [F16F](#))
- 25/14 . . Dashboards as superstructure sub-units (other dashboard aspects [B60K](#))
- 25/142 . . . {having ventilation channels incorporated therein}
- 25/145 . . . {having a crossbeam incorporated therein}
- 25/147 {with adjustable connection to the A-pillars}
- 25/16 . . Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter [B60S](#))
- 25/161 . . . {Mud-guards made of non-conventional material, e.g. rubber, plastics}
- 25/163 . . . {Mounting devices}
- 25/165 {including sealing devices}
- 25/166 {by rods or other distance-keeping devices}
- 25/168 . . . {Mud guards for utility vehicles}
- 25/18 . . Parts or details thereof, e.g. mudguard flaps
- 25/182 {Movable mudguards, or mudguards comprising movable or detachable parts ([B62D 25/188](#) takes precedence)}
- 25/184 {to facilitate access to wheels}
- 25/186 {being attached or suspended laterally from the wheel ([B62D 25/184](#) takes precedence)}
- 25/188 {Mud-guard flaps for utility vehicles}
- 25/20 . Floors or bottom sub-units {(sub-frames for mounting engine or suspensions [B62D 21/11](#); drip trays [F16N 31/006](#))}
- 25/2009 . . {in connection with other superstructure subunits}
- 25/2018 . . . {the subunits being front structures}
- 25/2027 . . . {the subunits being rear structures}
- 25/2036 . . . {the subunits being side panels, sills or pillars ([B62D 21/157](#) takes precedence)}
- 25/2045 . . . {the subunits being fire walls}
- 25/2054 . . {Load carrying floors for commercial vehicles}
- 25/2063 . . {Floor elements for repairs}
- 25/2072 . . {Floor protection, e.g. from corrosion or scratching (floor mats [B60N 3/04](#), armour [F41H 7/042](#), insulation [B60R 13/08](#), streamlining [B62D 35/02](#))}
- 25/2081 . . {Jack receiving devices}
- 25/209 . . {Arrangements for the mounting of vehicle hitches (vehicle connections in general [B60D](#))}
- 25/24 . Superstructure sub-units with access {or drainage} openings having movable or removable closures; {Sealing means therefor}(inlet covers for vehicle fuel tanks [B60K 15/05](#))
- 27/00 Connections between superstructure {or understructure} sub-units** {([B62D 33/0207](#), [B62D 33/044](#) take precedence; between sub-units predominantly made of synthetic material [B62D 29/048](#))}
- 27/02 . rigid
- 27/023 . . {Assembly of structural joints}
- 27/026 . . {Connections by glue bonding (in general [F16B 11/00](#); processes [C09J 5/00](#))}
- 27/04 . resilient
- 27/06 . readily releasable
- 27/065 . . {using screwthread (connection of crossbeam to A- pillars [B62D 25/147](#); mounting load bearing surfaces [B62D 21/09](#); securing mudguards [B62D 25/163](#); connections for synthetic parts [B62D 29/048](#))}
- 29/00 Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof** {([B62D 33/044](#), [B62D 33/048](#) take precedence)}
- 29/001 . {characterised by combining metal and synthetic material}
- 29/002 . . {a foamable synthetic material or metal being added *in situ* (shaping of substances in a plastic state by foaming, in general [B29C 44/00](#))}
- 29/004 . . {the metal being over-moulded by the synthetic material, e.g. in a mould}
- 29/005 . . {preformed metal and synthetic material elements being joined together, e.g. by adhesives}
- 29/007 . {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened steel}
- 29/008 . {predominantly of light alloys, e.g. extruded}
- 29/02 . predominantly of wood
- 29/04 . predominantly of synthetic material (working of plastics or substances in a plastic state [B29](#))
- 29/041 . . {Understructures}
- 29/043 . . {Superstructures ([B62D 25/161](#) takes precedence)}
- 29/045 . . . {Van bodies composed of substantially rectangular panels}

- 29/046 . . {Combined superstructure and frame, i.e. monocoque constructions}
- 29/048 . . {Connections therefor, e.g. joints ([B62D 29/045](#) takes precedence)}
- 31/00 Superstructures for passenger vehicles** (passenger vehicles specially adapted to co-operate with aircraft or terminal buildings [B64F 1/31](#))
- 31/003 . {compact cars, e.g. city cars}
- 31/006 . . {foldable (droppable [B60F 5/006](#))}
- 31/02 . for carrying large numbers of passengers, e.g. omnibus
- 31/025 . . {having modular sections}
- 31/04 . with more than one deck
- 33/00 Superstructures for load-carrying vehicles** ({having impact absorbing means [B62D 21/15](#); } in which a load-carrying element is movable [B60P](#); liners [B60R 13/00](#) {; joining sheets or plates to one another or to strips or bars parallel to them [F16B 5/00](#)})
- 33/02 . Platforms; Open load compartments {(flat wagons including posts or standards [B61D 3/08](#))}
- 33/0207 . . {Connections of movable or detachable racks or stanchions to platforms}
- 33/0215 . . . {for log hauling vehicles (vehicles for log transport in general [B60P 3/41](#))}
- 33/0222 . . {Connecting elements between stanchions, e.g. roof supporting elements, stiffeners (non-fixed roofs [B60J 7/00](#); securing and covering of load [B60P 7/00](#))}
- 33/023 . . Sideboard or tailgate structures {(vehicle side panels in general [B62D 25/02](#))}
- 33/027 . . . movable
- 33/0273 {Movable tailboards for vehicles comprising non-movable sideboards, e.g. pick-up trucks ([B62D 33/037](#) takes precedence)}
- 33/0276 {by vertical translation ([B62D 33/0273](#) takes precedence)}
- 33/03 by swinging down {([B62D 33/0273](#) takes precedence)}
- 33/033 removable {([B62D 33/0273](#) takes precedence)}
- 33/037 Latching means therefor
- 33/04 . Enclosed load compartments {; Frameworks for movable panels, tarpaulins or side curtains (side curtains per se [B60J 5/065](#); tarpaulins per se [B60J 7/00](#), [B60P 7/04](#))}
- 33/042 . . {divided into compartments (movable bulk heads [B60P 7/14](#); cattle transport [B60P 3/04](#); bottled liquids [B60P 3/22](#))}
- 33/044 . . {built up with profiles of constant elongated shape, e.g. extruded, mechanically interconnected by coupling members, e.g. by clamping, riveting or bolting}
- 33/046 . . {built up with flat self-supporting panels; Fixed connections between panels ([B62D 29/045](#), [B62D 33/048](#) take precedence)}
- 33/048 . . {for refrigerated goods vehicles}
- 33/06 . Drivers' cabs {(overhead guards, e.g. against loads falling down [B60R 21/11](#); roll-over protection [B60R 21/13](#))}
- 33/0604 . . {Cabs insulated against vibrations or noise, e.g. with elastic suspension (resilient connections between superstructure sub-units [B62D 27/04](#); damping noise in general [G10K 11/00](#); for vehicles in general [B60R 13/08](#))}
- 33/0608 . . . {pneumatic or hydraulic suspension}
- 33/0612 . . {Cabins with living accommodation, especially for long distance road vehicles, i.e. sleeping, cooking, or other facilities (beds in general adapted to be used in vehicles [A47C 17/80](#); sanitation devices in vehicles in general [B60R 15/00](#); living accommodation in vehicles in general [B60P 3/32](#); passenger fittings in general [B60N 3/00](#))}
- 33/0617 . . {for tractors or off-the-road vehicles (protective devices for drivers in case of overturning of tractors [B60R 21/131](#))}
- 33/0621 . . . {able to be dismantled, folding}
- 33/0625 . . . {open}
- 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
- 33/0633 . . . {pivotable about a vertical axis}
- 33/0636 . . . {displaceable along a linear path}
- 33/067 . . . tiltable
- 33/07 characterised by the device for locking the cab in the tilted or in the driving position
- 33/071 {Locking devices for cabins in driving position; Shock and vibration absorbing devices therefor}
- 33/073 . . . characterised by special adaptations of vehicle control devices
- 33/077 . characterised by the connection of the superstructure to the vehicle frame {([B62D 33/06](#) takes precedence)}
- 33/08 . comprising adjustable means ([B62D 33/10](#) takes precedence)
- 33/10 . . comprising means for the suspension of the superstructure on the frame
- 35/00 Vehicle bodies characterised by streamlining**
- 35/001 . {For commercial vehicles or tractor-trailer combinations, e.g. caravans}
- 35/002 . . {for caravans ([B62D 35/004](#) takes precedence)}
- 35/004 . . {Inflatable nose or rear cones}
- 35/005 . {Front spoilers ([B62D 35/001](#) takes precedence)}
- 35/007 . {Rear spoilers ([B62D 35/001](#) takes precedence)}
- 35/008 . {Side spoilers ([B62D 35/001](#) takes precedence)}
- 35/02 . Streamlining the undersurfaces {([B62D 35/005](#), [B62D 35/007](#), [B62D 35/008](#) take precedence)}
- 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 {, e.g. safety vehicles (safety equipment [B60R 21/00](#))}**
- 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**

- 43/002 . {Handling devices, mainly for heavy wheels (via cables and chains [B62D 43/045](#))}
- 43/005 . {Protective coverings for spare wheels}
- 43/007 . {Anti-theft devices for spare wheels}
- 43/02 . external to the vehicle body
- 43/04 . . attached beneath the vehicle body
- 43/045 . . . {the wheel or its cradle being attached to one or more chains or cables for handling}
- 43/06 . within the vehicle body
- 43/08 . . and arranged substantially vertically
- 43/10 . . and arranged substantially horizontally

Motor vehicles or trailers classified according to type; Parts or accessories thereof (frames for vehicles of special type [B62D 21/18](#))

- 47/00 Motor vehicles or trailers predominantly for carrying passengers** (superstructures [B62D 31/00](#))
- 47/003 . {convertible in order to modify the number of seats (foldable compact cars [B62D 31/006](#); convertible from one use to a different one [B60P 3/42](#))}
- 47/006 . {Vehicles which can be divided in sub-vehicles; nestable vehicles}
- 47/02 . for large numbers of passengers, e.g. omnibus
- 47/025 . . {articulated buses with interconnecting passageway, e.g. bellows (coupling aspects [B60D 5/00](#))}
- 49/00 Tractors** (of walk type [B62D 51/04](#); endless-track features [B62D 55/00](#) ; tractors for handling aircraft [B64F 1/22](#); transport specially adapted for underground galleries [E21F 13/02](#))
- 49/002 . {characterised by being of the low ground pressure type}
- 49/005 . {Tractors for semi-trailers (combinations of tractor plus semi-trailer [B62D 53/06](#))}
- 49/007 . . {Tractors for handling trailers, e.g. roll-trailers in terminals}
- 49/02 . modified to take lifting devices
- 49/04 . modified to take pushing devices
- 49/06 . adapted for multi-purpose use
- 49/0607 . . {Straddle tractors, used for instance above vine stocks, rows of bushes, or the like}
- 49/0614 . . {equipped with visual aids for positioning implements or to control working condition (optical signalling for vehicles in general [B60Q 1/26](#))}
- 49/0621 . . {comprising traction increasing arrangements, e.g. all-wheel traction devices, multiple-axle traction arrangements, auxiliary traction increasing devices (anti-skid or anti-slip devices fitted onto the wheels [B60B 15/02](#), [B60B 39/12](#); arrangements of transmission for driving both front and rear wheels or tandem wheels of vehicles [B60K 17/34](#), [B60K 17/36](#))}
- 49/0628 . . . {using detachable weights (counterweights against overturning [B62D 49/085](#); movable stabilisation masses [B62D 37/04](#))}
- 49/0635 . . . {using additional ground engaging means, e.g. endless tracks (vehicles with endless tracks and either additional or alternative ground wheels [B62D 55/02](#), [B62D 55/04](#))}
- 49/0642 . . . {by coupling of tractors}

- 49/065 . . {Coupling of multi-purpose tractors with equipment (towing bars [B60D](#); with load transfer [B62D 53/08](#); power take-off [B60K](#); with lifting devices [B62D 49/02](#); pushing gear [B62D 49/04](#))}
- 49/0657 . . {Asymmetrical tractors}
- 49/0664 . . {Light, simple, and economical tractors ([B62D 49/002](#) takes precedence)}
- 49/0671 . . . {the driver riding on the tractor}
- 49/0678 . . {Tractors of variable track width or wheel base (for vehicles in general [B60B 23/12](#) and [B60B 35/10](#))}
- 49/0685 . . {Reversible tractors adapted for shuttle work}
- 49/0692 . . {characterised by the particular arrangement of control devices, e.g. having more than one control stand, operable from vehicle extension (control devices or systems characterised by mechanical features only)}
- 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](#))
- 49/085 . . {Counterweight}
- 51/00 Motor vehicles characterised by the driver not being seated** {(wheeled carriers for golf bags [A63B 55/60](#))}
- 51/001 . {characterised by the vehicle control device (mechanical features of control devices in general [G05G](#); arrangements of vehicle control devices in general [B60K 20/00](#), [B60K 23/00](#), [B60K 26/00](#))}
- 51/002 . . {comprising safety arrangements (safety devices for vehicle propulsion unit control [B60K 28/00](#))}
- 51/004 . {characterised by the transmission (arrangements or mounting of transmissions in vehicles [B60K 17/00](#); gearing in general [F16H](#))}
- 51/005 . {Vehicular characteristics of load handling vehicles, e.g. pedestrian trucks (fork-lift trucks [B66F 9/06](#))}
- 51/007 . {the vehicle being of the endless track type (endless track vehicles in general [B62D 55/00](#))}
- 51/008 . {characterised by the vehicle being formed by articulated or separable units (road trains [B62D 53/00](#))}
- 51/02 . the driver standing in the vehicle
- 51/04 . the driver walking
- 51/06 . . Uniaxle walk-type tractors
- 51/065 . . . {the vehicle having only one wheel}
- 53/00 Tractor-trailer combinations; Road trains** (traction couplings other than fifth wheel coupling [B60D](#) ; tracked vehicles comprising at least two articulated parts [B62D 55/0655](#))
- 53/005 . {Combinations with at least three axles and comprising two or more articulated parts (articulated buses [B62D 47/025](#))}
- 53/02 . comprising a uniaxle tractor unit and a uniaxle trailer unit {(see [B60B 11/00](#) - [B60B 11/08](#))}
- 53/021 . . {comprising a universal coupling joint}
- 53/023 . . {with two or more coupling joints allowing staggering of the units from a central plane}
- 53/025 . . {Comprising a transmission shaft passing through the coupling joints ([B62D 53/021](#) takes precedence; trailers with powered axles [B62D 59/00](#))}
- 53/026 . . . {With all wheels powered}

- 53/028 . . {Having only coupling joints other than directional (articulated frames [B62D 21/186](#) and [B62D 55/10](#))}
- 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
- 53/045 . . {with rigid linkage in the horizontal plane (luggage trailers [B62D 63/064](#) - [B62D 63/067](#))}
- 53/06 . . Semi-trailers
- 53/061 . . . {of flat bed or low loader type or fitted with swan necks (detachable swan necks [B62D 53/065](#); swan neck-fifth wheel couplings [B62D 53/08](#))}
- 53/062 {having inclinable, lowerable platforms; Lift bed trailers; Straddle trailers (lifting coupling saddles [B62D 53/0821](#); crane vehicles [B60P 3/28](#))}
- 53/064 {inclining platforms by detachable bogies}
- 53/065 {inclining platforms by detachable or folding swan necks}
- 53/067 . . . {Multi-purpose, convertible or extendable load surface semi-trailers (for container transport [B60P 1/6418](#); convertible road transport vehicles in general [B60P 3/42](#))}
- 53/068 . . . {having devices to equalise or modify the load between the fifth wheel and the rear wheels (adjustable coupling saddles [per se B62D 53/0807](#); load transfer devices to permit coupling or uncoupling [B62D 53/0857](#); anti jack-knifing devices [B62D 53/0871](#))}
- 53/08 . . Fifth wheel traction couplings {(tractors for handling trailers in terminals [B62D 49/007](#))}
- 53/0807 . . . {adjustable coupling saddles mounted on sub-frames; Mounting plates therefor}
- 53/0814 {with adjustment of the clearance between the tractor or the trailer (devices modifying the load in tractor-trailer combinations [B62D 53/068](#))}
- 53/0821 {Lifting saddles, i.e. to lift the trailer front (tilting body constructions [B60P](#))}
- 53/0828 {Removable or fold-away traction couplings for non-specialised tractor vehicles}
- 53/0835 {Coupling saddles able to rock in all directions, e.g. for use in rough terrain}
- 53/0842 . . . {King pins}
- 53/085 {fitted with anti-coupling devices, pivotal or retractable king pins, e.g. to prevent theft (vehicle fittings for preventing theft in general [B60R 25/00](#))}
- 53/0857 . . . {Auxiliary semi-trailer handling or loading equipment, e.g. ramps, rigs, coupling supports}
- 53/0864 {Dollies for fifth wheel coupling}
- 53/0871 . . . {with stabilising means, e.g. to prevent jack-knifing, pitching, rolling, buck jumping (stabilising in general [B62D 37/00](#); tractors [B62D 49/08](#))}
- 53/0878 {the fifth wheel coupling incorporating braking or restraining means}
- 53/0885 . . . {Comprising devices to limit or to compensate for wear or excessive play; Lubricating, shock absorbing, bearing devices, or the like}
- 53/0892 . . . {comprising power transmission shafts (trailers with driven ground wheels [B62D 59/00](#))}
- 53/10 . . . with means for preventing accidental uncoupling
- 53/12 . . . engaging automatically
- 53/125 {with simultaneous coupling of the service lines}
- 55/00 Endless track vehicles (steering aspects [B62D 11/00](#); {characterised by the driver not being seated [B62D 51/007](#)})**
- 55/02 . with tracks and additional ground wheels {(for multi-purpose tractors [B62D 49/0635](#))}
- 55/04 . with tracks and alternative ground wheels, e.g. changeable from endless track vehicle into wheeled vehicle and vice versa {(for multi-purpose tractors [B62D 49/0635](#))}
- 55/06 . with tracks without ground wheels
- 55/062 . . {Tracked vehicles of great dimensions adapted for moving bulky loads or gear}
- 55/065 . . Multi-track vehicles, i.e. more than two tracks {(soil-shifting machines [E02F](#); mining machines [E21C](#))}
- 55/0655 . . . {Articulated endless track vehicles (steering specially adapted for trailers [B62D 13/00](#); articulated buses [B62D 47/025](#); tractor-trailer combinations or road trains comprising a uni-axle unit and a uni-axle trailer [B62D 53/02](#))}
- 55/07 . . Mono-track vehicles
- 55/075 . . Tracked vehicles for ascending or descending stairs, {steep slopes or vertical surfaces}(magnetic or pneumatic ground-engaging parts [B62D 55/265](#); chairs or multi-track cycles specially adapted for invalids [A61G 5/00](#))
- 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)
- 55/0842 . . . {Tracked vehicle with track carriages suspended on three points, e.g. by an equaliser bar}
- 55/0845 . . . {Protection devices}
- 55/0847 . . . {Track blocking devices mounted on the frame; Track guides}
- 55/088 . . with means to exclude or remove foreign matter, e.g. sealing means, self-cleaning track links or sprockets, deflector plates or scrapers
- 55/0882 . . . {Track or sprocket cleaning devices mounted on the frame (wheel cleaning devices in general [B60S](#))}
- 55/0885 . . . {Self-cleaning sprockets}
- 55/0887 . . . {Track-articulation sealings against dust, water, mud or the like (sealing of bearings in general [F16C 33/72](#); chain bushings in general [F16G 15/00](#))}
- 55/092 . . with lubrication means (lubricating in general [F16N](#))
- 55/096 . . with noise reducing means
- 55/0963 . . . {Anti-noise driving sprockets}
- 55/0966 . . . {Low noise rollers, e.g. with antivibration means (elastic wheel rims in general [B60B 9/00](#))}
- 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](#))
- 55/108 . . . with mechanical springs, e.g. torsion bars

55/1083	. . . . {Torsion-bar springs}	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)
55/1086	. . . . {Rubber springs}		
55/112	. . . with fluid springs, e.g. hydraulic pneumatic		
55/1125	. . . . {Hydro-pneumatic or pneumatic, e.g. air-cushioned}	57/02	. with ground-engaging propulsion means, e.g. walking members
55/116	. . . Attitude or position control of chassis by action on suspension, e.g. to compensate for a slope	57/021	. . {the ground engaging means being sequentially inflatable bags for peristaltic movement (B62D 57/024 takes precedence)}
55/12	. . Arrangement, location, or adaptation of driving sprockets	57/022	. . {consisting of members having both rotational and walking movements}
55/125	. . . Final drives	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)
55/13	. . . . readily interchangeable modular type		
55/135	. . . with dismountable driving crown		
55/14	. . Arrangement, location, or adaptation of rollers	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)
55/145	. . . {Rollers with replaceable wear rings or rims (driving sprockets with replaceable rims B62D 55/12)}	57/032	. . with alternately or sequentially lifted supporting base and legs; with alternately or sequentially lifted feet or skid (B62D 57/024 takes precedence)
55/15	. . . Mounting devices, e.g. bushings, axles, bearings, sealings {(with lubrication means B62D 55/092)}	57/036	. . screw type, e.g. Archimedian screw {(amphibious vehicles comprising screw-type ground-engaging means B60F 3/0023)}
55/18	. . Tracks (self-cleaning track links B62D 55/088)	57/04	. having other than ground-engaging propulsion means, e.g. having propellers (arrangement of jet-propulsion units B60K)
55/20	. . . of articulated type, e.g. chains {(with lubrication means B62D 55/092)}	59/00	Trailers with driven ground wheels or the like
55/202	. . . . {Wheel engaging parts; Wheel guides on links}	59/02	. driven from external propulsion unit
55/205	. . . . Connections between track links	59/04	. driven from propulsion unit on trailer
55/21	. . . . Links connected by transverse pivot pins	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
55/211	. . . . . {Bitubular chain links assembled by pins and double connectors}	61/02	. with two road wheels in tandem on the longitudinal centre line of the vehicle
55/213	. . . . . {Master track links}	61/04	. . with two other wheels which are coaxial
55/215	. . . . . Resilient connections between links	61/06	. with only three wheels
55/22	. . . . Arrangements for preventing or modifying back-flexing	61/065	. . {with single rear wheel}
55/24	. . . of continuously flexible type, e.g. rubber belts	61/08	. . with single front wheel
55/242	. . . . {The flexible band being semi-rigid for resisting back-flexing and contributing to spring the vehicle}	61/10	. with more than four wheels {(tractors of the low ground pressure type B62D 49/002)}
55/244	. . . . {Moulded in one piece, with either smooth surfaces or surfaces having projections, e.g. incorporating reinforcing elements}	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)
55/247	. . . . Gas filled or inflatable flexible tracks (connection of valves to inflatable elastic bodies B60C 29/00)	61/125	. . {the retractable wheel being a part of a set of tandem wheels (resilient suspension for a single set of tandem wheels B60G 5/00)}
55/253	. . . . having elements interconnected by one or more cables or like elements	63/00	Motor vehicles or trailers not otherwise provided for
55/26	. . . Ground engaging parts or elements {(tracks specially adapted for amphibious vehicles B60F 3/0015)}	63/02	. Motor vehicles
55/265	. . . . having magnetic or pneumatic adhesion	63/025	. . {Modular vehicles (superstructures for busses having modular sections B62D 31/025)}
55/27	. . . . having different types of crampons for progression over varying ground	63/04	. . Component parts or accessories
55/275	. . . . with street plate, i.e. means to prevent tread from cutting into road surface	63/06	. Trailers (vehicles comprising living accommodation for people, e.g. caravans, camping or like vehicles B60P 3/32)
55/28	. . . . detachable	63/061	. . {Foldable, extensible or yielding trailers (foldable caravans B60P 3/34 ; adjustable chassis frames B62D 21/14)}
55/283	. . . . . {and movable, e.g. around an axis or perpendicularly to the track}		
55/286	. . . . . {For soft grounds, e.g. consisting of snow or swamp}		
55/30	. . Track-tensioning means		
55/305	. . . {acting on pivotably mounted idlers}		
55/32	. Assembly, disassembly, repair or servicing of endless-track systems		

- 63/062 . . {Trailers with one axle or two wheels (semi-trailers [B62D 53/06](#))}
- 63/064 . . . {light luggage or equipment trailers, e.g. for batteries, gas generators, gas bottles, stretchers (luggage carriers [per se B60R](#))}
- 63/065 . . . {forming an extension of the towing vehicle, i.e. with two point fixation}
- 63/067 {single wheeled (rigid or semi-rigid coupling)}
- 63/068 . . {with more than two axles or more than four wheels (vehicles with more than four wheels in general [B62D 61/10](#))}
- 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**
- 65/005 . {Inspection and final control devices}
- 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
- 65/022 . . {Transferring or handling sub-units or components, e.g. in work stations or between workstations and transportation systems}
- 65/024 . . {Positioning of sub-units or components with respect to body shell or other sub-units or components}
- 65/026 . . . {by using a jig or the like; Positioning of the jig}
- 65/028 . . . {by determining relative positions by measurement}
- 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)
- 65/06 . . the sub-units or components being doors, windows, openable roofs, lids, bonnets, or weather strips or seals therefor {(assembling sealing arrangements with vehicle parts, e.g. doors, windows [B60J 10/45](#))}
- 65/10 . . the sub-units or components being engines, clutches or transmissions
- 65/12 . . the sub-units or components being suspensions, brakes or wheel units
- 65/14 . . the sub-units or components being passenger compartment fittings, e.g. seats, linings, trim, instrument panels
- 65/16 . . the sub-units or components being exterior fittings, e.g. bumpers, lights, wipers {, exhausts}
- 65/18 . . Transportation, conveyor or haulage systems specially adapted for motor vehicle or trailer assembly lines {(conveyors and haulage in general [B65G](#))}
- 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](#) {; general arrangement of separating plants [B03B 9/00](#); recovery of plastics [B29B 17/00](#))}**