

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}		
7/146	. . . {characterised by comprising means for steering by acting on the suspension system, e.g. on the mountings of the suspension arms}		
7/148	. . . {provided with safety devices}		
7/15	. . . characterised by means varying the ratio between the steering angles of the steered wheels {(B62D 7/148 takes precedence)}		
7/1509	. . . . {with different steering modes, e.g. crab-steering, or steering specially adapted for reversing of the vehicle}		
7/1518	. . . . {comprising a mechanical interconnecting system between the steering control means of the different axles}		
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 per se 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
		11/00	Steering non-deflectable wheels; Steering endless tracks or the like
			NOTE
			Gearings of interest apart from this application are also classified in the relevant group of subclass F16H covering gearings per se
		11/001	. {control systems (B62D 11/183 takes precedence)}
			NOTE
			{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}

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}		
15/0235	. . . {by measuring or deriving directly at the electric power steering motor}		
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}		
15/0245	. . . {Means or methods for determination of the central position of the steering system, e.g. straight ahead position}	21/12	. assembled from readily detachable parts
15/025	. . {Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation (B62D 1/28 takes precedence)}	21/14	. of adjustable length or width
15/0255	. . . {Automatic changing of lane, e.g. for passing another vehicle}	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)
15/026	. . . {combined with automatic distance control, i.e. electronic tow bar}	21/152	. . {Front or rear frames}
15/0265	. . . {Automatic obstacle avoidance by steering}	21/155	. . . {Sub-frames or underguards}
15/027	. . {Parking aids, e.g. instruction means}	21/157	. . {for side impacts}
15/0275	. . . {by overlaying a vehicle path based on present steering angle over an image without processing that image}	21/16	. having fluid storage compartment
15/028	. . . {Guided parking by providing commands to the driver, e.g. acoustically or optically}	21/17	. forming fluid or electrical conduit means or having other means to accommodate the transmission of a force or signal
15/0285	. . . {Parking performed automatically}	21/18	. characterised by the vehicle type and not provided for in groups B62D 21/02 - B62D 21/17
15/029	. . {Steering assistants using warnings or proposing actions to the driver without influencing the steering system}	21/183	. . {specially adapted for sports vehicles, e.g. race, dune buggies, go-karts (tubular skeleton B62D 23/005)}
15/0295	. . . {by overlaying a vehicle path based on present steering angle over an image without processing that image}	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)}
		21/20	. . trailer type, i.e. a frame specifically constructed for use in a non-powered vehicle
17/00	Means on vehicles for adjusting camber, castor, or toe-in	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)}
19/00	Radius rods, i.e. distance members	23/005	. {with integrated chassis in the whole shell, e.g. meshwork, tubes, or the like (B62D 33/044 takes precedence)}
<u>Understructures; Superstructures; Vehicle bodies</u>			
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)}	24/00	Connections between vehicle body and vehicle frame (B62D 23/00 , B62D 33/077 take precedence)
21/02	. comprising longitudinally or transversely arranged frame members	24/02	. Vehicle body, not intended to move relatively to the vehicle frame, and mounted on vibration absorbing mountings, e.g. rubber pads
21/03	. . transverse members providing body support	24/04	. Vehicle body mounted on resilient suspension for movement relative to the vehicle frame
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		

NOTE

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

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)}	25/20	. Floors or bottom sub-units {(sub-frames for mounting engine or suspensions B62D 21/11 ; drip trays F16N 31/006)}
25/02	. Side panels {(B62D 33/046 takes precedence; sideboards for open load compartments B62D 33/023)}	25/2009	. . {in connection with other superstructure subunits}
25/025	. . {Side sills thereof}	25/2018	. . . {the subunits being front structures}
25/04	. Door pillars {; windshield pillars}	25/2027	. . . {the subunits being rear structures}
25/06	. Fixed roofs (non-fixed roofs or like shelters B60J 7/00 ; roof liners B60R 13/02 ; insulating elements B60R 13/08)	25/2036	. . . {the subunits being side panels, sills or pillars (B62D 21/157 takes precedence)}
25/07	. . having water drainage or guide means integral with roof structure	25/2045	. . . {the subunits being fire walls}
25/08	. Front or rear portions {(sub-frames for mounting engine or suspensions B62D 21/11)}	25/2054	. . {Load carrying floors for commercial vehicles}
25/081	. . {Cowls (ventilating openings situated directly in front of the vehicle front window B60H 1/28)}	25/2063	. . {Floor elements for repairs}
25/082	. . {Engine compartments}	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)}
25/084	. . . {Radiator supports}	25/2081	. . {Jack receiving devices}
25/085	. . . {Front-end modules}	25/209	. . {Arrangements for the mounting of vehicle hitches (vehicle connections in general B60D)}
25/087	. . {Luggage compartments}	25/24	. Superstructure sub-units with access {or drainage} openings having movable or removable closures; {Sealing means thereof} (inlet covers for vehicle fuel tanks B60K 15/05)
25/088	. . {Details of structures as upper supports for springs or dampers}	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)}
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)}	27/02	. rigid
25/105	. . . {for motor cars}	27/023	. . {Assembly of structural joints}
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)	27/026	. . {Connections by glue bonding (in general F16B 11/00 ; processes C09J 5/00)}
25/14	. . Dashboards as superstructure sub-units (other dashboard aspects B60K)	27/04	. resilient
25/142	. . . {having ventilation channels incorporated therein}	27/06	. readily releasable
25/145	. . . {having a crossbeam incorporated therein}	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)}
25/147	. . . . {with adjustable connection to the A-pillars}	29/00	Superstructures, {understructures, or sub-units thereof,} characterised by the material thereof {(B62D 33/044 , B62D 33/048 take precedence)}
25/16	. . Mud-guards or wings; Wheel cover panels (equipped with means for freeing wheels or tyres from foreign matter B60S)	29/001	. {characterised by combining metal and synthetic material}
25/161	. . . {Mud-guards made of non-conventional material, e.g. rubber, plastics}	29/002	. . {a foamable synthetic material or metal being added <i>in situ</i> (shaping of substances in a plastic state by foaming, in general B29C 44/00)}
25/163	. . . {Mounting devices}	29/004	. . {the metal being over-moulded by the synthetic material, e.g. in a mould}
25/165	. . . . {including sealing devices}	29/005	. . {preformed metal and synthetic material elements being joined together, e.g. by adhesives}
25/166	. . . . {by rods or other distance-keeping devices}	29/007	. {predominantly of special steel or specially treated steel, e.g. stainless steel or locally surface hardened steel}
25/168	. . . {Mud guards for utility vehicles}	29/008	. {predominantly of light alloys, e.g. extruded}
25/18	. . . Parts or details thereof, e.g. mudguard flaps	29/02	. predominantly of wood
25/182	. . . . {Movable mudguards, or mudguards comprising movable or detachable parts (B62D 25/188 takes precedence)}	29/04	. predominantly of synthetic material (working of plastics or substances in a plastic state B29)
25/184	. . . . . {to facilitate access to wheels}	29/041	. . {Understructures}
25/186	. . . . . {being attached or suspended laterally from the wheel (B62D 25/184 takes precedence)}	29/043	. . {Superstructures (B62D 25/161 takes precedence)}
25/188	. . . . . {Mud-guard flaps for utility vehicles}	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
- 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)}

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](#) ; 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](#))}

- 49/08 . 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)}	55/00	Endless track vehicles (steering aspects B62D 11/00 ; {characterised by the driver not being seated B62D 51/007 })
53/06	. . Semi-trailers	55/02	. with tracks and additional ground wheels {(for multi-purpose tractors B62D 49/0635)}
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)}	55/04	. with tracks and alternative ground wheels, e.g. changeable from endless track vehicle into wheeled vehicle and <i>vice versa</i> {(for multi-purpose tractors B62D 49/0635)}
53/062	. . . . {having inclinable, lowerable platforms; Lift bed trailers; Straddle trailers (lifting coupling saddles B62D 53/0821 ; crane vehicles B60P 3/28)}	55/06	. with tracks without ground wheels
53/064	. . . . . {inclining platforms by detachable bogies}	55/062	. . {Tracked vehicles of great dimensions adapted for moving bulky loads or gear}
53/065	. . . . . {inclining platforms by detachable or folding swan necks}	55/065	. . Multi-track vehicles, i.e. more than two tracks {(soil-shifting machines E02F ; mining machines E21C)}
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)}	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)}
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)}	55/07	. . Mono-track vehicles
53/08	. . Fifth wheel traction couplings {(tractors for handling trailers in terminals B62D 49/007)}	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)
53/0807	. . . {adjustable coupling saddles mounted on sub-frames; Mounting plates therefor}	55/08	. Endless track units; Parts thereof
53/0814	. . . . {with adjustment of the clearance between the tractor or the trailer (devices modifying the load in tractor-trailer combinations B62D 53/068)}	55/084	. . Endless-track units or carriages mounted separably, adjustably or extensibly on vehicles, e.g. portable track units (B62D 55/07 takes precedence)
53/0821	. . . . . {Lifting saddles, i.e. to lift the trailer front (tilting body constructions B60P)}	55/0842	. . . {Tracked vehicle with track carriages suspended on three points, e.g. by an equaliser bar}
53/0828	. . . . . {Removable or fold-away traction couplings for non-specialised tractor vehicles}	55/0845	. . . {Protection devices}
53/0835	. . . . . {Coupling saddles able to rock in all directions, e.g. for use in rough terrain}	55/0847	. . . {Track blocking devices mounted on the frame; Track guides}
53/0842	. . . {King pins}	55/088	. . with means to exclude or remove foreign matter, e.g. sealing means, self-cleaning track links or sprockets, deflector plates or scrapers
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)}	55/0882	. . . {Track or sprocket cleaning devices mounted on the frame (wheel cleaning devices in general B60S)}
53/0857	. . . {Auxiliary semi-trailer handling or loading equipment, e.g. ramps, rigs, coupling supports}	55/0885	. . . {Self-cleaning sprockets}
53/0864	. . . . . {Dollies for fifth wheel coupling}	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)}
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)}	55/092	. . with lubrication means (lubricating in general F16N)
53/0878	. . . . . {the fifth wheel coupling incorporating braking or restraining means}	55/096	. . with noise reducing means
53/0885	. . . {Comprising devices to limit or to compensate for wear or excessive play; Lubricating, shock absorbing, bearing devices, or the like}	55/0963	. . . {Anti-noise driving sprockets}
53/0892	. . . {comprising power transmission shafts (trailers with driven ground wheels B62D 59/00)}	55/0966	. . . {Low noise rollers, e.g. with antivibration means (elastic wheel rims in general B60B 9/00)}
53/10	. . . with means for preventing accidental uncoupling	55/10	. . Bogies; Frames (track-tensioning means B62D 55/30)
53/12	. . . engaging automatically	55/104	. . Suspension devices for wheels, rollers, bogies or frames (vehicle suspension in general B60G)
53/125	. . . . . {with simultaneous coupling of the service lines}	55/108	. . . with mechanical springs, e.g. torsion bars
		55/1083	. . . . . {Torsion-bar springs}
		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	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)
55/135	. . . with dismountable driving crown	57/032	. . with alternately or sequentially lifted supporting base and legs; with alternately or sequentially lifted feet or skid (B62D 57/024 takes precedence)
55/14	. . Arrangement, location, or adaptation of rollers	57/036	. . screw type, e.g. Archimedian screw {(amphibious vehicles comprising screw-type ground-engaging means B60F 3/0023)}
55/145	. . . {Rollers with replaceable wear rings or rims (driving sprockets with replaceable rims B62D 55/12)}	57/04	. having other than ground-engaging propulsion means, e.g. having propellers (arrangement of jet-propulsion units B60K)
55/15	. . . Mounting devices, e.g. bushings, axles, bearings, sealings {(with lubrication means B62D 55/092)}	59/00	Trailers with driven ground wheels or the like
55/18	. . Tracks (self-cleaning track links B62D 55/088)	59/02	. driven from external propulsion unit
55/20	. . . of articulated type, e.g. chains {(with lubrication means B62D 55/092)}	59/04	. driven from propulsion unit on trailer
55/202	. . . . {Wheel engaging parts; Wheel guides on links}	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
55/205	. . . . Connections between track links	61/02	. with two road wheels in tandem on the longitudinal centre line of the vehicle
55/21	. . . . . Links connected by transverse pivot pins	61/04	. . with two other wheels which are coaxial
55/211	. . . . . {Bitubular chain links assembled by pins and double connectors}	61/06	. with only three wheels
55/213	. . . . . {Master track links}	61/065	. . {with single rear wheel}
55/215	. . . . . Resilient connections between links	61/08	. . with single front wheel
55/22	. . . . Arrangements for preventing or modifying back-flexing	61/10	. with more than four wheels {(tractors of the low ground pressure type B62D 49/002)}
55/24	. . . of continuously flexible type, e.g. rubber belts	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)
55/242	. . . . {The flexible band being semi-rigid for resisting back-flexing and contributing to spring the vehicle}	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)}
55/244	. . . . {Moulded in one piece, with either smooth surfaces or surfaces having projections, e.g. incorporating reinforcing elements}	63/00	Motor vehicles or trailers not otherwise provided for
55/247	. . . . Gas filled or inflatable flexible tracks (connection of valves to inflatable elastic bodies B60C 29/00)	63/02	. Motor vehicles
55/253	. . . . having elements interconnected by one or more cables or like elements	63/025	. . {Modular vehicles (superstructures for busses having modular sections B62D 31/025)}
55/26	. . . Ground engaging parts or elements {(tracks specially adapted for amphibious vehicles B60F 3/0015)}	63/04	. . Component parts or accessories
55/265	. . . . having magnetic or pneumatic adhesion	63/06	. Trailers (vehicles comprising living accommodation for people, e.g. caravans, camping or like vehicles B60P 3/32)
55/27	. . . . having different types of crampons for progression over varying ground	63/061	. . {Foldable, extensible or yielding trailers (foldable caravans B60P 3/34; adjustable chassis frames B62D 21/14)}
55/275	. . . . with street plate, i.e. means to prevent tread from cutting into road surface	63/062	. . {Trailers with one axle or two wheels (semi-trailers B62D 53/06)}
55/28	. . . . detachable		
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		
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)		

- 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](#))}**