В	Sektion	PERFORMING OPERATIONS; TRANSPORTING
B60	Untersektion	TRANSPORTING
B60	Klasse	VEHICLES IN GENERAL
B60T	Unterklasse	VEHICLE BRAKE CONTROL SYSTEMS OR PARTS THEREOF; BRAKE CONTROL SYSTEMS, OR PARTS THEREOF, IN GENERAL (electrodynamic brake systems for vehicles, in general B60L; brakes per se, i.e. devices where braking effect occurs, including ultimate brake actuators, F16D)
B60T 1/00	Hauptgruppe	Arrangements of braking elements, i.e. of those parts where braking effect occurs
B60T 1/02	1-Punkt Untergruppe	. acting by retarding wheels
B60T 1/04	2-Punkt Untergruppe	acting directly on tread
B60T 1/06	2-Punkt Untergruppe	acting otherwise than on tread, e.g. employing rim, drum, disc, or transmission
B60T 1/08	2-Punkt Untergruppe	using fluid or powdered medium
B60T 1/087	3-Punkt Untergruppe	in hydrodynamic, i.e. non-positive displacement, retarders [3]
B60T 1/093	3-Punkt Untergruppe	in hydrostatic, i.e. positive displacement, retarders [3]
B60T 1/10	2-Punkt Untergruppe	by utilising wheel movement for accumulating energy, e.g. driving air compressors (using propulsion unit as braking means, see the relevant class)
B60T 1/12	1-Punkt Untergruppe	. acting otherwise than by retarding wheels, e.g. jet- action
B60T 1/14	2-Punkt Untergruppe	directly on road (portable devices, e.g. chocks, B60T 3/00)
B60T 1/16	2-Punkt Untergruppe	by increasing air resistance, e.g. flaps
B60T 3/00	Hauptgruppe	Portable devices for preventing unwanted movement of vehicles, e.g. chocks
B60T 5/00	Hauptgruppe	Vehicle modifications to facilitate cooling of brakes
B60T 7/00	Uzuntarunno	Brake control systems or parts thereof  Brake-action initiating means
•	Hauptgruppe	
B60T 7/02	1-Punkt Untergruppe	for personal initiation
B60T 7/04	2-Punkt Untergruppe	foot-actuated
B60T 7/06	3-Punkt Untergruppe	Disposition of pedal
B60T 7/08	2-Punkt Untergruppe	hand-actuated
B60T 7/10	3-Punkt Untergruppe	Disposition of hand control
B60T 7/12	1-Punkt Untergruppe	. for automatic initiation; for initiation not subject to will of driver or passenger
B60T 7/14	2-Punkt Untergruppe	operated upon collapse of driver (dead-man's devices for electrically-propelled vehicles B60L 3/02)
B60T 7/16	2-Punkt Untergruppe	operated by remote control, i.e. initiating means not mounted on vehicle
B60T 7/18	3-Punkt Untergruppe	operated by wayside apparatus
B60T 7/20	2-Punkt Untergruppe	specially adapted for trailers, e.g. in case of uncoupling of trailer (inertia-actuated overrun brakes B60T 13/08)
B60T 7/22	2-Punkt Untergruppe	initiated by contact of vehicle, e.g. bumper, with an external object, e.g. another vehicle [4]
B60T 8/00	Hauptgruppe	Arrangements for adjusting wheel-braking force to meet varying vehicular or ground-surface conditions, e.g. limiting or varying distribution of braking force (by changing number of effective

Symbol	Тур	Titel
		brake cylinders in power brake systems B60T 17/10)
B60T 8/18	1-Punkt Untergruppe	. responsive to vehicle weight or load, e.g. load distribution (B60T 8/30 takes precedence; responsive to weight and speed condition B60T 8/58) [4]
B60T 8/20	2-Punkt Untergruppe	with stepwise control action
B60T 8/22	2-Punkt Untergruppe	with continuous control action
B60T 8/24	1-Punkt Untergruppe	. responsive to vehicle inclination or change of direction, e.g. negotiating bends
B60T 8/26	1-Punkt Untergruppe	. characterised by producing differential braking between front and rear wheels
B60T 8/28	2-Punkt Untergruppe	responsive to deceleration [4]
B60T 8/30	2-Punkt Untergruppe	responsive to load [4]
B60T 8/32	1-Punkt Untergruppe	<ul> <li>responsive to a speed condition, e.g. acceleration or deceleration (B60T 8/28 takes precedence; electric devices on electrically propelled vehicles indicating the wheel slip B60L 3/10; measuring linear or angular speed per se G01P 3/00) [4]</li> </ul>
B60T 8/34	2-Punkt Untergruppe	having a fluid pressure regulator responsive to a speed condition [4]
B60T 8/36	3-Punkt Untergruppe	including a pilot valve responding to an electromagnetic force [4]
B60T 8/38	3-Punkt Untergruppe	including valve means of the relay or driver controlled type [4]
B60T 8/40	3-Punkt Untergruppe	comprising an additional fluid circuit including fluid pressurising means for modifying the pressure of the braking fluid, e.g. including wheel driven pumps for detecting a speed condition, or pumps which are controlled by means independent of the braking system [4]
B60T 8/42	3-Punkt Untergruppe	having expanding chambers for controlling pressure [4]
B60T 8/44	3-Punkt Untergruppe	co-operating with a power-assist booster means associated with a master cylinder for controlling the release and reapplication of brake pressure through an interaction with the power assist device [4]
B60T 8/46	3-Punkt Untergruppe	the pressure being reduced by exhausting fluid [4]
B60T 8/48	3-Punkt Untergruppe	connecting the brake actuator to an alternative or additional source of fluid pressure [4]
B60T 8/50	3-Punkt Untergruppe	having means for controlling the rate at which pressure is reapplied to the brake [4]
B60T 8/52	2-Punkt Untergruppe	Torque sensing, i.e. wherein the braking action is controlled by forces producing or tending to produce a twisting or rotating motion on a braked rotating member [4]
B60T 8/54	2-Punkt Untergruppe	by mechanical means [4]
B60T 8/56	2-Punkt Untergruppe	having means for changing the coefficient of friction [4]
B60T 8/58	2-Punkt Untergruppe	responsive to speed and another condition or to plural speed conditions [4]
B60T 8/60	3-Punkt Untergruppe	using electrical circuitry for controlling the braking action, the circuitry deriving a control function relating to the dynamic of the braked vehicle or wheel [4]
B60T 8/62	4-Punkt Untergruppe	wherein the individual vehicle wheels are provided (i) with self-contained braking systems operating the individual wheels in accordance with its dynamic state or (ii) with a central processing unit which receives input from individual wheels or wheel groups and produces a plurality of control signals for separately operating individual wheels or groups of wheels [4]
B60T 8/64	4-Punkt Untergruppe	wherein the controlled braking action is characterised by the manner in which the braking fluid pressure is reduced or reapplied [4]
B60T 8/66	4-Punkt Untergruppe	wherein the braking action is responsive to the difference between a computed or other theoretical vehicle speed and an actual speed of a wheel thereof [4]

Symbol	Тур	Titel
B60T 8/68	5-Punkt Untergruppe	wherein the braking action is controlled by a difference between the rate of change of vehicle velocity and the rate of change of wheel velocity [4]
B60T 8/70	5-Punkt Untergruppe	sensing both acceleration and deceleration of either the vehicle or the wheel [4]
B60T 8/72	2-Punkt Untergruppe	responsive to a difference between a speed condition, e.g. deceleration, and a fixed reference (B60T 8/66 takes precedence) [4]
B60T 8/74	3-Punkt Untergruppe	sensing a rate of change of velocity [4]
B60T 8/76	3-Punkt Untergruppe	two or more sensing means from different wheels indicative of the same type of speed condition [4]
B60T 8/78	3-Punkt Untergruppe	using electrical circuitry for controlling the braking action, the circuitry deriving a control function relating to the dynamics of the braked vehicle or wheel [4]
B60T 8/80	4-Punkt Untergruppe	Means sensing a rate of change of velocity [4]
B60T 8/82	4-Punkt Untergruppe	two or more sensing means from different wheels indicative of the same type of speed condition [4]
B60T 8/84	4-Punkt Untergruppe	wherein two wheels or wheel groups are controlled in dependence on the behaviour of a reference wheel or wheel group, with means for changing the reference wheel, e.g. "select high, select low" operation [4]
B60T 8/86	2-Punkt Untergruppe	wherein the brakes are automatically applied in accordance with a speed condition and having means for overriding the automatic braking device when a skid condition occurs [4]
B60T 8/88	2-Punkt Untergruppe	with failure responsive means, i.e. means for detecting and indicating faulty operation of the speed responsive control means [4]
B60T 8/90	3-Punkt Untergruppe	using a simulated speed signal to test speed responsive control means [4]
B60T 8/92	3-Punkt Untergruppe	automatically taking corrective action [4]
B60T 8/94	4-Punkt Untergruppe	on a fluid pressure regulator [4]
B60T 8/96	4-Punkt Untergruppe	on speed responsive control means [4]
B60T 10/00	Hauptgruppe	Control or regulation for continuous braking making use of fluid or powdered medium, e.g. for use when descending a long slope [4]
B60T 10/02	1-Punkt Untergruppe	. with hydrodynamic brake [4]
B60T 10/04	1-Punkt Untergruppe	. with hydrostatic brake [4]
B60T 11/00	Hauptgruppe	Transmitting braking action from initiating means to ultimate brake actuator without power assistance or drive or where such assistance or drive is irrelevant (the power assistance or drive being essential B60T 13/00) [5]
B60T 11/04	1-Punkt Untergruppe	. transmitting mechanically [5]
B60T 11/06	2-Punkt Untergruppe	Equalising arrangements [5]
B60T 11/08	2-Punkt Untergruppe	providing variable leverage [5]
B60T 11/10	1-Punkt Untergruppe	. transmitting by fluid means, e.g. hydraulic [5]
B60T 11/12	2-Punkt Untergruppe	the transmitted force being varied therein (B60T 11/16 to B60T 11/28 take precedence) [5]
B60T 11/14	2-Punkt Untergruppe	the transmitted force being substantially unchanged [5]
B60T 11/16	2-Punkt Untergruppe	Master control, e.g. master cylinders (master cylinders associated with vacuum boosters B60T 13/565) [5]
B60T 11/18	3-Punkt Untergruppe	Connection thereof to initiating means [5]
B60T 11/20	3-Punkt Untergruppe	Tandem, side-by-side, or other multiple master-cylinder units [5]

Symbol	Тур	Titel
B60T 11/21	4-Punkt Untergruppe	with two pedals operating on respective circuits, pressures therein being equalised when both pedals are operated together, e.g. for steering (steering non-deflectable wheels or endless tracks by differentially driving ground-engaging elements on opposite vehicle sides using brakes as main steering effecting means B62D 11/08) [5]
B60T 11/22	3-Punkt Untergruppe	characterised by being integral with reservoir [5]
B60T 11/224	3-Punkt Untergruppe	with pressure-varying means, e.g. with two stage operation provided by use of different piston diameters including continuous variation from one diameter to another [5]
B60T 11/228	3-Punkt Untergruppe	Pressure-maintaining arrangements, e.g. for replenishing the master cylinder chamber with fluid from a reservoir (B60T 11/232 takes precedence) [5]
B60T 11/232	3-Punkt Untergruppe	Recuperation valves [5]
B60T 11/236	3-Punkt Untergruppe	Piston sealing arrangements [5]
B60T 11/24	2-Punkt Untergruppe	Single initiating means operating on more than one circuit, e.g. dual circuits (multiple master-cylinder units B60T 11/20) [5]
B60T 11/26	2-Punkt Untergruppe	Reservoirs (integral with master controls B60T 11/22) [5]
B60T 11/28	2-Punkt Untergruppe	Valves specially adapted therefor (recuperation valves B60T 11/232) [5]
B60T 11/30	3-Punkt Untergruppe	Bleed valves for hydraulic brake systems [5]
B60T 11/32	3-Punkt Untergruppe	Automatic cut-off valves for defective pipes [5]
B60T 11/34	3-Punkt Untergruppe	Pressure-reducing or limiting valves [5]
B60T 13/00	Hauptgruppe	Transmitting braking action from initiating means to ultimate brake actuator with power assistance or drive; Brake systems incorporating such transmitting means, e.g. air-pressure brake systems (arrangements for adjusting wheel-braking force to meet varying vehicular or ground-surface conditions B60T 8/00; valves incorporated in such systems B60T 15/00)
B60T 13/02	1-Punkt Untergruppe	. with mechanical assistance or drive
B60T 13/04	2-Punkt Untergruppe	by spring or weight (fluid-released B60T 13/10)
B60T 13/06	2-Punkt Untergruppe	by inertia, e.g. flywheel
B60T 13/08	3-Punkt Untergruppe	Overrun brakes (automatic brake-action initiating means specially adapted for trailers B60T 7/20)
B60T 13/10	1-Punkt Untergruppe	. with fluid assistance, drive, or release
B60T 13/12	2-Punkt Untergruppe	the fluid being liquid
B60T 13/122	3-Punkt Untergruppe	Systems using both master cylinder and distributor valve; Structural associations of master cylinder with distributor valve [6]
B60T 13/125	3-Punkt Untergruppe	Systems using brake pressure distributor valve without master cylinder [6]
B60T 13/128	3-Punkt Untergruppe	Systems using booster hydraulically combined with master cylinder [6]
B60T 13/13	4-Punkt Untergruppe	with additional direct hydraulic output from booster to brake circuit [6]
B60T 13/132	3-Punkt Untergruppe	Systems using booster having mechanical output, e.g. to master cylinder [6]
B60T 13/135	3-Punkt Untergruppe	Boosters characterised by control valve in booster piston [6]
B60T 13/138	3-Punkt Untergruppe	Pressure supply arrangements [6]
B60T 13/14	4-Punkt Untergruppe	using accumulators or reservoirs [6]

Symbol	Тур	Titel Titel
B60T 13/16	4-Punkt Untergruppe	using pumps directly, i.e. without interposition of accumulators or reservoirs [6]
B60T 13/18	5-Punkt Untergruppe	with control of pump output delivery [6]
B60T 13/20	5-Punkt Untergruppe	with control of pump driving means [6]
B60T 13/22	3-Punkt Untergruppe	Brakes applied by springs or weights and released hydraulically
B60T 13/24	2-Punkt Untergruppe	the fluid being gaseous
B60T 13/26	3-Punkt Untergruppe	Compressed-air systems
B60T 13/36	4-Punkt Untergruppe	direct, i.e. brakes applied directly by compressed air
B60T 13/38	4-Punkt Untergruppe	Brakes applied by springs or weights and released by compressed air
B60T 13/40	4-Punkt Untergruppe	indirect, i.e. compressed-air booster units
B60T 13/44	5-Punkt Untergruppe	with two-chamber booster units
B60T 13/45	5-Punkt Untergruppe	with multiple booster units, e.g. tandem booster units [5]
B60T 13/46	3-Punkt Untergruppe	Vacuum systems
B60T 13/48	4-Punkt Untergruppe	direct, i.e. brakes applied directly by vacuum
B60T 13/50	4-Punkt Untergruppe	Brakes applied by springs or weights and released by vacuum
B60T 13/52	4-Punkt Untergruppe	indirect, i.e. vacuum booster units
B60T 13/56	5-Punkt Untergruppe	with two-chamber booster units
B60T 13/563	5-Punkt Untergruppe	with multiple booster units, e.g. tandem booster units [5]
B60T 13/565	5-Punkt Untergruppe	characterised by being associated with master cylinders, e.g. integrally formed [5]
B60T 13/567	5-Punkt Untergruppe	characterised by constructional features of the casing or by its strengthening or mounting arrangements [5]
B60T 13/569	5-Punkt Untergruppe	characterised by piston details, e.g. construction, mounting of diaphragm [5]
B60T 13/57	5-Punkt Untergruppe	characterised by constructional features of control valves [5]
B60T 13/573	5-Punkt Untergruppe	characterised by reaction devices [5]
B60T 13/575	6-Punkt Untergruppe	using resilient discs or pads [5]
B60T 13/577	6-Punkt Untergruppe	using levers [5]
B60T 13/58	2-Punkt Untergruppe	Combined or convertible systems
B60T 13/60	3-Punkt Untergruppe	both fluid pressure and vacuum
B60T 13/62	3-Punkt Untergruppe	both straight and automatic
B60T 13/64	3-Punkt Untergruppe	both single and multiple, e.g. single and tandem
B60T 13/66	2-Punkt Untergruppe	Electrical control in fluid-pressure brake systems
B60T 13/68	3-Punkt Untergruppe	by electrically-controlled valves
B60T 13/70	3-Punkt Untergruppe	by fluid-controlled switches

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Symbol	Тур	Titel
B60T 13/72	3-Punkt Untergruppe	in vacuum systems
B60T 13/74	1-Punkt Untergruppe	. with electrical assistance or drive
B60T 15/00	Hauptgruppe	Construction, arrangement, or operation of valves incorporated in power brake systems and not covered by groups B60T 11/00 or B60T 13/00 (valve structures responsive to a speed condition B60T 8/34; connection of valves to inflatable elastic bodies B60C 29/00) [4]
B60T 15/02	1-Punkt Untergruppe	. Application and release valves
B60T 15/04	2-Punkt Untergruppe	Driver's valves
B60T 15/06	3-Punkt Untergruppe	Single driver's valves for pressure brakes without automatic control
B60T 15/08	3-Punkt Untergruppe	Driver's valves for pressure brakes having automatic control (automatic initiation of braking in general B60T 7/12)
B60T 15/10	3-Punkt Untergruppe	for vacuum brakes
B60T 15/12	3-Punkt Untergruppe	combined with relay valves or the like
B60T 15/14	3-Punkt Untergruppe	influencing electric control means
B60T 15/16	3-Punkt Untergruppe	Arrangements enabling systems to be controlled from two or more positions
B60T 15/18	2-Punkt Untergruppe	Triple or other relay valves which allow step-wise application or release and which are actuated by brake- pipe pressure variation to connect brake cylinders or equivalent to compressed-air or vacuum source or atmosphere
B60T 15/20	3-Punkt Untergruppe	controlled by two fluid pressures
B60T 15/22	4-Punkt Untergruppe	with one or more auxiliary valves, for braking, releasing, filling reservoirs
B60T 15/24	3-Punkt Untergruppe	controlled by three fluid pressures
B60T 15/26	4-Punkt Untergruppe	without a quick braking action
B60T 15/28	5-Punkt Untergruppe	and having auxiliary valves
B60T 15/30	4-Punkt Untergruppe	with a quick braking action
B60T 15/32	5-Punkt Untergruppe	and having auxiliary valves
B60T 15/34	3-Punkt Untergruppe	controlled alternatively by two or three fluid pressures
B60T 15/36	2-Punkt Untergruppe	Other control devices or valves characterised by definite functions
B60T 15/38	3-Punkt Untergruppe	for quick take-up and heavy braking, e.g. with auxiliary reservoir for taking-up slack
B60T 15/40	4-Punkt Untergruppe	with separate take-up and applying cylinders
B60T 15/42	3-Punkt Untergruppe	with a quick braking action, i.e. with accelerating valves actuated by brake-pipe pressure variation
B60T 15/44	4-Punkt Untergruppe	and operating independently of the main control device
B60T 15/46	3-Punkt Untergruppe	for retarding braking action to prevent rear vehicles of a vehicle train from overtaking the forward ones
B60T 15/48	3-Punkt Untergruppe	for filling reservoirs
B60T 15/50	4-Punkt Untergruppe	with means for limiting or relieving pressure in reservoirs
B60T 15/52	3-Punkt Untergruppe	for quick release of brakes, e.g. for influencing counter-pressure in triple valve or recirculating air from reservoir or brake cylinder to brake pipe

Symbol	Тур	Titel
B60T 15/54	3-Punkt Untergruppe	for controlling exhaust from triple valve or from brake cylinder
B60T 15/56	3-Punkt Untergruppe	for filling reservoirs by means of a secondary supply pipe
B60T 15/58	3-Punkt Untergruppe	for supplying control impulses through a secondary air pipe
B60T 15/60	3-Punkt Untergruppe	for releasing or applying brakes when vehicles of a vehicle train are uncoupled
B60T 17/00	Hauptgruppe	Component parts, details, or accessories of brake systems not covered by groups B60T 8/00 , B60T 13/00 or B60T 15/00 , or presenting other characteristic features (air compressors F04) [4]
B60T 17/02	1-Punkt Untergruppe	. Arrangements of pumps or compressors, or control devices therefor
B60T 17/04	1-Punkt Untergruppe	. Arrangement of piping, valves in the piping, e.g. cut-off valves, couplings or air hoses (traction couplings involving joints for supply lines, electric circuits, or the like B60D 1/62; couplings peculiar to railway vehicles for, or combined with, couplings or connectors for fluid conduits or electric cables B61G 5/06; pipes, cut-off valves, couplings, air hoses per se F16C , F16K , F16L) [4]
B60T 17/06	1-Punkt Untergruppe	. Applications or arrangements of reservoirs
B60T 17/08	1-Punkt Untergruppe	. Brake cylinders other than ultimate actuators (with built-in wear-compensating mechanisms, ultimate actuators F16D)
B60T 17/10	2-Punkt Untergruppe	Two or more cylinders acting on the same brake with means for rendering them effective selectively or successively, the number of effective cylinders being variable
B60T 17/12	3-Punkt Untergruppe	according to vehicle weight
B60T 17/14	3-Punkt Untergruppe	according to vehicle speed
B60T 17/16	2-Punkt Untergruppe	Locking of brake cylinders
B60T 17/18	1-Punkt Untergruppe	. Safety devices; Monitoring
B60T 17/20	2-Punkt Untergruppe	Safety devices operable by passengers other than the driver
B60T 17/22	2-Punkt Untergruppe	Devices for monitoring or checking brake systems; Signal devices
		Indexing scheme associated with groups B60T 13/122 to B60T 13/20, relating to pressure supply arrangements. The indexing codes should be unlinked. [6]
B60T 101/00	Hauptgruppe	Accumulators [6]
B60T 103/00	Hauptgruppe	Pumps [6]
B60T 105/00	Hauptgruppe	Reservoirs [6]