

Symbol	Typ	Titel
F	Sektion	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F16	Klasse	ENGINEERING ELEMENTS OR UNITS; GENERAL MEASURES FOR PRODUCING AND MAINTAINING EFFECTIVE FUNCTIONING OF MACHINES OR INSTALLATIONS ; THERMAL INSULATION IN GENERAL
F16H	Unterklasse	GEARING
		<u>Toothed gearings for conveying rotary motion</u>
F16H 1/00	Hauptgruppe	Toothed gearings for conveying rotary motion (specific for conveying rotary motion with variable gear ratio or for reversing rotary motion F16H 3/00) [1, 2006.01]
F16H 1/02	1-Punkt Untergruppe	. without gears having orbital motion [1, 2006.01]
F16H 1/04	2-Punkt Untergruppe	.. involving only two intermeshing members [1, 2006.01]
F16H 1/06	3-Punkt Untergruppe	... with parallel axes [1, 2006.01]
F16H 1/08	4-Punkt Untergruppe	.... the members having helical, herring-bone, or like teeth [1, 2006.01]
F16H 1/10	4-Punkt Untergruppe	.... one of the members being internally toothed [1, 2006.01]
F16H 1/12	3-Punkt Untergruppe	... with non-parallel axes [1, 2006.01]
F16H 1/14	4-Punkt Untergruppe	.... comprising conical gears only [1, 2006.01]
F16H 1/16	4-Punkt Untergruppe	.... comprising worm and worm-wheel [1, 2006.01]
F16H 1/18	4-Punkt Untergruppe	.... the members having helical, herring-bone, or like teeth (F16H 1/14 takes precedence) [1, 2006.01]
F16H 1/20	2-Punkt Untergruppe	.. involving more than two intermeshing members [1, 2006.01]
F16H 1/22	3-Punkt Untergruppe	... with a plurality of driving or driven shafts; with arrangements for dividing torque between two or more intermediate shafts [1, 2006.01]
F16H 1/24	2-Punkt Untergruppe	.. involving gears essentially having intermeshing elements other than involute or cycloidal teeth (F16H 1/16 takes precedence) [1, 2006.01]
F16H 1/26	2-Punkt Untergruppe	.. Special means compensating for misalignment of axes [1, 2006.01]
F16H 1/28	1-Punkt Untergruppe	. with gears having orbital motion [1, 2006.01]
F16H 1/30	2-Punkt Untergruppe	.. in which an orbital gear has an axis crossing the main axis of the gearing and has helical teeth or is a worm [1, 2006.01]
F16H 1/32	2-Punkt Untergruppe	.. in which the central axis of the gearing lies inside the periphery of an orbital gear [1, 2006.01]
F16H 1/34	2-Punkt Untergruppe	.. involving gears essentially having intermeshing elements other than involute or cycloidal teeth (in worm gearing F16H 1/30) [1, 2006.01]
F16H 1/36	2-Punkt Untergruppe	.. with two central gears coupled by intermeshing orbital gears [1, 2006.01]
F16H 1/46	2-Punkt Untergruppe	.. Systems consisting of a plurality of gear trains, each with orbital gears [1, 2006.01]
F16H 1/48	2-Punkt Untergruppe	.. Special means compensating for misalignment of axes [1, 2006.01]
F16H 3/00	Hauptgruppe	Toothed gearings for conveying rotary motion with variable gear ratio or for reversing rotary motion (speed-changing or reversing mechanisms F16H 59/00-F16H 63/00) [1, 2006.01]
F16H 3/02	1-Punkt Untergruppe	. without gears having orbital motion [1, 2006.01]
F16H 3/04	2-Punkt Untergruppe	.. with internally-toothed gears [1, 2006.01]

Symbol	Typ	Titel
F16H 3/06	2-Punkt Untergruppe	... with worm and worm-wheel or gears essentially having helical or herring-bone teeth [1, 2006.01]
F16H 3/08	2-Punkt Untergruppe	... exclusively or essentially with continuously- meshing gears, that can be disengaged from their shafts [1, 2006.01]
F16H 3/083	3-Punkt Untergruppe	... with radially acting and axially controlled clutching members, e.g. sliding keys [5, 2006.01]
F16H 3/085	3-Punkt Untergruppe	... with more than one output shaft [5, 2006.01]
F16H 3/087	3-Punkt Untergruppe	... characterised by the disposition of the gears (F16H 3/083, F16H 3/085 take precedence) [5, 2006.01]
F16H 3/089	4-Punkt Untergruppe	.... all of the meshing gears being supported by a pair of parallel shafts, one being the input shaft and the other the output shaft, there being no countershaft involved [5, 2006.01]
F16H 3/091	4-Punkt Untergruppe	.... including a single countershaft [5, 2006.01]
F16H 3/093	4-Punkt Untergruppe	.... with two or more countershafts [5, 2006.01]
F16H 3/095	5-Punkt Untergruppe	..... with means for ensuring an even distribution of torque between the countershafts [5, 2006.01]
F16H 3/097	5-Punkt Untergruppe	..... the input and output shafts being aligned on the same axis [5, 2006.01]
F16H 3/10	3-Punkt Untergruppe	... with one or more one-way clutches as an essential feature [1, 2006.01]
F16H 3/12	3-Punkt Untergruppe	... with means for synchronisation not incorporated in the clutches (synchronised clutches F16D 23/02) [1, 2006.01]
F16H 3/14	3-Punkt Untergruppe	... Gearings for reversal only [1, 2006.01]
F16H 3/16	2-Punkt Untergruppe	... essentially with both gears that can be put out of gear and continuously-meshing gears that can be disengaged from their shafts [1, 2006.01]
F16H 3/18	3-Punkt Untergruppe	... Gearings for reversal only [1, 2006.01]
F16H 3/20	2-Punkt Untergruppe	... exclusively or essentially using gears that can be moved out of gear [1, 2006.01]
F16H 3/22	3-Punkt Untergruppe	... with gears shiftable only axially [1, 2006.01]
F16H 3/24	4-Punkt Untergruppe	.... with driving and driven shafts coaxial [1, 2006.01]
F16H 3/26	5-Punkt Untergruppe	..... and two or more additional shafts [1, 2006.01]
F16H 3/28	6-Punkt Untergruppe	..... an additional shaft being coaxial with the main shafts [1, 2006.01]
F16H 3/30	4-Punkt Untergruppe	.... with driving and driven shafts not coaxial [1, 2006.01]
F16H 3/32	5-Punkt Untergruppe	.... and an additional shaft [1, 2006.01]
F16H 3/34	3-Punkt Untergruppe	... with gears shiftable otherwise than only axially [1, 2006.01]
F16H 3/36	3-Punkt Untergruppe	... with a single gear meshable with any of a set of coaxial gears of different diameters [1, 2006.01]
F16H 3/38	3-Punkt Untergruppe	... with synchro-meshing [1, 2006.01]
F16H 3/40	3-Punkt Untergruppe	... Gearings for reversal only [1, 2006.01]
F16H 3/42	2-Punkt Untergruppe	... with gears having teeth formed or arranged for obtaining multiple gear ratios, e.g. nearly infinitely variable [1, 2006.01]
F16H 3/44	1-Punkt Untergruppe	. using gears having orbital motion [1, 2006.01]
F16H 3/46	2-Punkt Untergruppe	.. Gearings having only two central gears, connected by orbital gears (F16H 3/68-F16H 3/78 take precedence) [1, 2006.01]

Symbol	Typ	Titel
F16H 3/48	3-Punkt Untergruppe	... with single orbital gears or pairs of rigidly-connected orbital gears [1, 2006.01]
F16H 3/50	4-Punkt Untergruppe	.... comprising orbital conical gears [1, 2006.01]
F16H 3/52	4-Punkt Untergruppe	.... comprising orbital spur gears [1, 2006.01]
F16H 3/54	5-Punkt Untergruppe	..... one of the central gears being internally toothed and the other externally toothed [1, 2006.01]
F16H 3/56	5-Punkt Untergruppe	..... both central gears being sun gears [1, 2006.01]
F16H 3/58	3-Punkt Untergruppe	... with sets of orbital gears, each consisting of two or more intermeshing orbital gears [1, 2006.01]
F16H 3/60	3-Punkt Untergruppe	... Gearings for reversal only [1, 2006.01]
F16H 3/62	2-Punkt Untergruppe	... Gearings having three or more central gears (F16H 3/68-F16H 3/78 take precedence) [1, 2006.01]
F16H 3/64	3-Punkt Untergruppe	... composed of a number of gear trains, the drive always passing through all the trains, each train having not more than one connection for driving another train [1, 2006.01]
F16H 3/66	3-Punkt Untergruppe	... composed of a number of gear trains without drive passing from one train to another [1, 2006.01]
F16H 3/68	2-Punkt Untergruppe	... in which an orbital gear has an axis crossing the main axis of the gearing and has helical teeth or is a worm [1, 2006.01]
F16H 3/70	2-Punkt Untergruppe	... in which the central axis of the gearing lies inside the periphery of an orbital gear [1, 2006.01]
F16H 3/72	2-Punkt Untergruppe	... with a secondary drive, e.g. regulating motor, in order to vary speed continuously [1, 2006.01]
F16H 3/74	2-Punkt Untergruppe	... Complexes, not using actuatable speed-changing or regulating members, e.g. with gear ratio determined by free play of frictional or other forces [1, 2006.01]
F16H 3/76	2-Punkt Untergruppe	... with an orbital gear having teeth formed or arranged for obtaining multiple gear ratios, e.g. nearly infinitely variable [1, 2006.01]
F16H 3/78	2-Punkt Untergruppe	... Special adaptation of synchronisation mechanisms to these gearings [1, 2006.01]
<u>Gearing for conveying rotary motion by endless flexible members</u>		
F16H 7/00	Hauptgruppe	Gearings for conveying rotary motion by endless flexible members (specific for conveying rotary motion with variable gear ratio or for reversing rotary motion F16H 9/00; endless flexible members per se, e.g. belts or chains F16G) [1, 2006.01]
F16H 7/02	1-Punkt Untergruppe	. with belts; with V-belts [1, 2006.01]
F16H 7/04	1-Punkt Untergruppe	. with ropes [1, 2006.01]
F16H 7/06	1-Punkt Untergruppe	. with chains [1, 2006.01]
F16H 7/08	1-Punkt Untergruppe	. Means for varying tension of belts, ropes, or chains (pulleys of adjustable construction F16H 55/52) [1, 2006.01]
F16H 7/10	2-Punkt Untergruppe	... by adjusting the axis of a pulley [1, 2006.01]
F16H 7/12	3-Punkt Untergruppe	... of an idle pulley [1, 2006.01]
F16H 7/14	3-Punkt Untergruppe	... of a driving or driven pulley [1, 2006.01]
F16H 7/16	4-Punkt Untergruppe	.... without adjusting the driving or driven shaft [1, 2006.01]
F16H 7/18	1-Punkt Untergruppe	. Means for guiding or supporting belts, ropes, or chains (construction of pulleys F16H 55/36) [1, 2006.01]
F16H 7/20	2-Punkt Untergruppe	... Mountings for rollers or pulleys [1, 2006.01]
F16H 7/22	1-Punkt Untergruppe	. Belt, rope, or chain shifters [1, 2006.01]

Symbol	Typ	Titel
F16H 7/24	1-Punkt Untergruppe	. Equipment for mounting belts, ropes, or chains [1, 2006.01]
F16H 9/00	Hauptgruppe	Gearings for conveying rotary motion with variable gear ratio, or for reversing rotary motion, by endless flexible members (control of change-speed or reversing-gearings conveying rotary motion F16H 59/00-F16H 63/00; endless flexible members <u>per se</u>, e.g. belts or chains F16G) [1, 2006.01]
F16H 9/02	1-Punkt Untergruppe	. without members having orbital motion [1, 2006.01]
F16H 9/04	2-Punkt Untergruppe	.. using belts, V-belts, or ropes (with toothed belts F16H 9/24; pulleys of adjustable construction F16H 55/52) [1, 2006.01]
F16H 9/06	3-Punkt Untergruppe	... engaging a stepped pulley [1, 2006.01]
F16H 9/08	3-Punkt Untergruppe	... engaging a conical drum (F16H 9/12 takes precedence) [1, 2006.01]
F16H 9/10	3-Punkt Untergruppe	... engaging a pulley provided with radially-actuatable elements carrying the belt [1, 2006.01]
F16H 9/12	3-Punkt Untergruppe	... engaging a pulley built-up out of relatively axially-adjustable parts in which the belt engages the opposite flanges of the pulley directly without interposed belt-supporting members [1, 2006.01]
F16H 9/14	4-Punkt Untergruppe	.... using only one pulley built-up out of adjustable conical parts [1, 2006.01]
F16H 9/16	4-Punkt Untergruppe	.... using two pulleys, both built-up out of adjustable conical parts [1, 2006.01]
F16H 9/18	5-Punkt Untergruppe	..... only one flange of each pulley being adjustable [1, 2006.01]
F16H 9/20	5-Punkt Untergruppe	..... both flanges of the pulleys being adjustable [1, 2006.01]
F16H 9/22	3-Punkt Untergruppe	... specially adapted for ropes [1, 2006.01]
F16H 9/24	2-Punkt Untergruppe	.. using chains, toothed belts, belts in the form of links; Chains or belts specially adapted to such gearing (toothed belts F16G 1/28; V-belts in the form of links F16G 5/18; toothed V-belts F16G 5/20) [1, 2006.01]
F16H 9/26	1-Punkt Untergruppe	. with members having orbital motion [1, 2006.01]
<u>Other friction gearing for conveying rotary motion</u>		
F16H 13/00	Hauptgruppe	Gearing for conveying rotary motion with constant gear ratio by friction between rotary members (specific for conveying rotary motion with variable gear ratio or for reversing rotary motion F16H 15/00) [1, 2006.01]
F16H 13/02	1-Punkt Untergruppe	. without members having orbital motion [1, 2006.01]
F16H 13/04	2-Punkt Untergruppe	.. with balls or with rollers acting in a similar manner [1, 2006.01]
F16H 13/06	1-Punkt Untergruppe	. with members having orbital motion [1, 2006.01]
F16H 13/08	2-Punkt Untergruppe	.. with balls or with rollers acting in a similar manner [1, 2006.01]
F16H 13/10	1-Punkt Untergruppe	. Means for influencing the pressure between the members [1, 2006.01]
F16H 13/12	2-Punkt Untergruppe	.. by magnetic forces [1, 2006.01]
F16H 13/14	2-Punkt Untergruppe	.. for automatically varying the pressure mechanically [1, 2006.01]
F16H 15/00	Hauptgruppe	Gearings for conveying rotary motion with variable gear ratio, or for reversing rotary motion, by friction between rotary members (control of change-speed or reversing-gearings conveying rotary motion F16H 59/00-F16H 63/00) [1, 2006.01]
F16H 15/01	1-Punkt Untergruppe	. characterised by the use of a magnetisable powder or liquid as friction medium between the rotary members [2, 2006.01]
F16H 15/02	1-Punkt Untergruppe	. without members having orbital motion [1, 2006.01]
F16H 15/04	2-Punkt Untergruppe	.. Gearings providing a continuous range of gear ratios [1, 2006.01]

Symbol	Typ	Titel
F16H 15/06	3-Punkt Untergruppe	... in which a member A of uniform effective diameter mounted on a shaft may co-operate with different parts of a member B [1, 2006.01]
F16H 15/08	4-Punkt Untergruppe	.... in which the member B is a disc with a flat or approximately-flat friction surface [1, 2006.01]
F16H 15/10	5-Punkt Untergruppe	..... in which the axes of the two members cross or intersect [1, 2006.01]
F16H 15/12	6-Punkt Untergruppe	..... in which one or each member is duplicated, e.g. for obtaining better transmission, for lessening the reaction forces on the bearings [1, 2006.01]
F16H 15/14	5-Punkt Untergruppe	..... in which the axes of the members are parallel or approximately parallel [1, 2006.01]
F16H 15/16	4-Punkt Untergruppe	.... in which the member B has a conical friction surface [1, 2006.01]
F16H 15/18	5-Punkt Untergruppe	.... externally [1, 2006.01]
F16H 15/20	6-Punkt Untergruppe	.... co-operating with the outer rim of the member A, which is perpendicular or nearly perpendicular to the friction surface of the member B [1, 2006.01]
F16H 15/22	6-Punkt Untergruppe	.... the axes of the members being parallel or approximately parallel [1, 2006.01]
F16H 15/24	5-Punkt Untergruppe	.... internally [1, 2006.01]
F16H 15/26	4-Punkt Untergruppe	.... in which the member B has a spherical friction surface centered on its axis of revolution [1, 2006.01]
F16H 15/28	5-Punkt Untergruppe	.... with external friction surface [1, 2006.01]
F16H 15/30	5-Punkt Untergruppe	.... with internal friction surface [1, 2006.01]
F16H 15/32	4-Punkt Untergruppe	.... in which the member B has a curved friction surface formed as a surface of a body of revolution generated by a curve which is neither a circular arc centered on its axis of revolution nor a straight line [1, 2006.01]
F16H 15/34	5-Punkt Untergruppe	.... with convex friction surface [1, 2006.01]
F16H 15/36	5-Punkt Untergruppe	.... with concave friction surface, e.g. a hollow toroid surface [1, 2006.01]
F16H 15/38	6-Punkt Untergruppe	.... with two members B having hollow toroid surfaces opposite to each other, the member or members A being adjustably mounted between the surfaces [1, 2006.01]
F16H 15/40	3-Punkt Untergruppe	... in which two members co-operate by means of balls, or rollers of uniform effective diameter, not mounted on shafts [1, 2006.01]
F16H 15/42	3-Punkt Untergruppe	... in which two members co-operate by means of rings or by means of parts of endless flexible members pressed between the first-mentioned members [1, 2006.01]
F16H 15/44	3-Punkt Untergruppe	... in which two members of non-uniform effective diameter directly co-operate with one another [1, 2006.01]
F16H 15/46	2-Punkt Untergruppe	... Gearings providing a discontinuous or stepped range of gear ratios [1, 2006.01]
F16H 15/48	1-Punkt Untergruppe	. with members having orbital motion [1, 2006.01]
F16H 15/50	2-Punkt Untergruppe	.. Gearings providing a continuous range of gear ratios [1, 2006.01]
F16H 15/52	3-Punkt Untergruppe	... in which a member of uniform effective diameter mounted on a shaft may co-operate with different parts of another member [1, 2006.01]
F16H 15/54	3-Punkt Untergruppe	... in which two members co-operate by means of rings or by means of parts of endless flexible members pressed between the first-mentioned members [1, 2006.01]
F16H 15/56	2-Punkt Untergruppe	.. Gearings providing a discontinuous or stepped range of gear ratios [1, 2006.01]
F16H 19/00	Hauptgruppe	Gearings comprising essentially only toothed gears or friction members and not capable of

Symbol	Typ	Titel
		<u>conveying indefinitely-continuing rotary motion (with intermittently-driving members F16H 27/00- F16H 31/00; rope or like tackle for lifting or haulage B66D 3/00) [1, 2006.01]</u>
F16H 19/02	1-Punkt Untergruppe	. for interconverting rotary motion and reciprocating motion [1, 2006.01]
F16H 19/04	2-Punkt Untergruppe	... comprising a rack [1, 2006.01]
F16H 19/06	2-Punkt Untergruppe	... comprising an endless flexible member [1, 2006.01]
F16H 19/08	1-Punkt Untergruppe	. for interconverting rotary motion and oscillating motion [1, 2006.01]
		<u>Gearing for conveying or converting motion by means of levers, links, cams or screw-and-nut mechanisms</u>
F16H 21/00	Hauptgruppe	Gearings comprising primarily only links or levers, with or without slides (F16H 23/00 takes precedence) [1, 2006.01]
F16H 21/02	1-Punkt Untergruppe	. the movements of two or more independently-moving members being combined into a single movement [1, 2006.01]
F16H 21/04	1-Punkt Untergruppe	. Guiding mechanisms, e.g. for straight-line guidance (for drawing-machines B43L) [1, 2006.01]
F16H 21/06	1-Punkt Untergruppe	. which can be made ineffective when desired [1, 2006.01]
F16H 21/08	2-Punkt Untergruppe	... by pushing a reciprocating rod out of its operative position [1, 2006.01]
F16H 21/10	1-Punkt Untergruppe	. all movement being in, or parallel to, a single plane [1, 2006.01]
F16H 21/12	2-Punkt Untergruppe	... for conveying rotary motion [1, 2006.01]
F16H 21/14	3-Punkt Untergruppe	... . by means of cranks, eccentrics, or like members fixed to one rotary member and guided along tracks on the other [1, 2006.01]
F16H 21/16	2-Punkt Untergruppe	... . for interconverting rotary motion and reciprocating motion [1, 2006.01]
F16H 21/18	3-Punkt Untergruppe	... . Crank gearings; Eccentric gearings [1, 2006.01]
F16H 21/20	4-Punkt Untergruppe	... . . with adjustment of throw (adjustable cranks or eccentrics F16C 3/28; adjustable connecting-rods F16C 7/06) [1, 2006.01]
F16H 21/22	4-Punkt Untergruppe	... . . with one connecting-rod and one guided slide to each crank or eccentric [1, 2006.01]
F16H 21/24	5-Punkt Untergruppe	... . . . without further links or guides [1, 2006.01]
F16H 21/26	5-Punkt Untergruppe	... . . . with toggle action [1, 2006.01]
F16H 21/28	5-Punkt Untergruppe	... . . . with cams or additional guides [1, 2006.01]
F16H 21/30	5-Punkt Untergruppe	... . . . with members having rolling contact [1, 2006.01]
F16H 21/32	5-Punkt Untergruppe	... . . . with additional members comprising only pivoted links or arms [1, 2006.01]
F16H 21/34	4-Punkt Untergruppe	... . . with two or more connecting-rods to each crank or eccentric [1, 2006.01]
F16H 21/36	4-Punkt Untergruppe	... . . without swinging connecting-rod, e.g. with epicyclic parallel motion, slot-and- crank motion [1, 2006.01]
F16H 21/38	4-Punkt Untergruppe	... . . with means for temporary energy accumulation, e.g. to overcome dead-centre positions [1, 2006.01]
F16H 21/40	2-Punkt Untergruppe	.. for interconverting rotary motion and oscillating motion [1, 2006.01]
F16H 21/42	3-Punkt Untergruppe	... . with adjustable throw [1, 2006.01]
F16H 21/44	2-Punkt Untergruppe	.. . for conveying or interconverting oscillating or reciprocating motions [1, 2006.01]
F16H 21/46	1-Punkt Untergruppe	. with movements in three dimensions [1, 2006.01]

Symbol	Typ	Titel
F16H 21/48	2-Punkt Untergruppe	... for conveying rotary motion [1, 2006.01]
F16H 21/50	2-Punkt Untergruppe	... for interconverting rotary motion and reciprocating motion [1, 2006.01]
F16H 21/52	2-Punkt Untergruppe	... for interconverting rotary motion and oscillating motion [1, 2006.01]
F16H 21/54	2-Punkt Untergruppe	... for conveying or interconverting oscillating or reciprocating motions [1, 2006.01]
F16H 23/00	Hauptgruppe	Wobble-plate gearings; Oblique-crank gearings [1, 2006.01]
F16H 23/02	1-Punkt Untergruppe	. with adjustment of throw by changing the position of the wobble-member (F16H 29/04, F16H 33/10 take precedence) [1, 2006.01]
F16H 23/04	1-Punkt Untergruppe	. with non-rotary wobble-members [1, 2006.01]
F16H 23/06	2-Punkt Untergruppe	... with sliding members hinged to reciprocating members [1, 2006.01]
F16H 23/08	2-Punkt Untergruppe	... connected to reciprocating members by connecting-rods [1, 2006.01]
F16H 23/10	1-Punkt Untergruppe	. with rotary wobble-plates with plane surfaces [1, 2006.01]
F16H 25/00	Hauptgruppe	Gearings comprising primarily only cams, cam-followers and screw-and-nut mechanisms [1, 2006.01]
F16H 25/02	1-Punkt Untergruppe	. the movements of two or more independently-moving members being combined into a single movement [1, 2006.01]
F16H 25/04	1-Punkt Untergruppe	. for conveying rotary motion [1, 2006.01]
F16H 25/06	2-Punkt Untergruppe	... with intermediate members guided along tracks on both rotary members [1, 2006.01]
F16H 25/08	1-Punkt Untergruppe	. for interconverting rotary motion and reciprocating motion (F16H 23/00 takes precedence) [1, 2006.01]
F16H 25/10	2-Punkt Untergruppe	... with adjustable throw (adjustable cams F16H 53/04) [1, 2006.01]
F16H 25/12	2-Punkt Untergruppe	... with reciprocity along the axis of rotation, e.g. gearings with helical grooves and automatic reversal (screw mechanisms without automatic reversal F16H 25/20) [1, 2006.01]
F16H 25/14	2-Punkt Untergruppe	... with reciprocity perpendicular to the axis of rotation (F16H 21/36 takes precedence) [1, 2006.01]
F16H 25/16	1-Punkt Untergruppe	. for interconverting rotary motion and oscillating motion [1, 2006.01]
F16H 25/18	1-Punkt Untergruppe	. for conveying or interconverting oscillating or reciprocating motions [1, 2006.01]
F16H 25/20	2-Punkt Untergruppe	... Screw mechanisms (with automatic reversal F16H 25/12) [1, 2006.01]
F16H 25/22	3-Punkt Untergruppe	... with balls, rollers, or similar members between the co-operating parts; Elements essential to the use of such members [1, 2006.01]
F16H 25/24	3-Punkt Untergruppe	... Elements essential to such mechanisms, e.g. screws, nuts (F16H 25/22 takes precedence) [1, 2006.01]
<u>Gearings with intermittently-driving members</u>		
F16H 27/00	Hauptgruppe	Step-by-step mechanisms without freewheel members, e.g. Geneva drives (rotary gearings with cyclically-varying velocity ratio F16H 35/02; impulse couplings F16D 5/00; clockwork escapements G04B 15/00) [1, 2006.01]
F16H 27/02	1-Punkt Untergruppe	. with at least one reciprocating or oscillating transmission member [1, 2006.01]
F16H 27/04	1-Punkt Untergruppe	. for converting continuous rotation into a step-by-step rotary movement [1, 2006.01]
F16H 27/06	2-Punkt Untergruppe	... Mechanisms with driving pins in driven slots, e.g. Geneva drives [1, 2006.01]
F16H 27/08	2-Punkt Untergruppe	... with driving toothed gears with interrupted toothing [1, 2006.01]

Symbol	Typ	Titel
F16H 27/10	2-Punkt Untergruppe	... obtained by means of disengageable transmission members, combined or not combined with mechanisms according to group F16H 27/06 or F16H 27/08 [1, 2006.01]
F16H 29/00	Hauptgruppe	Gearings for conveying rotary motion with intermittently-driving members, e.g. with freewheel action (freewheels F16D 41/00) [1, 2006.01]
F16H 29/02	1-Punkt Untergruppe	. between one of the shafts and an oscillating or reciprocating intermediate member, not rotating with either of the shafts (F16H 29/20, F16H 29/22 take precedence) [1, 2006.01]
F16H 29/04	2-Punkt Untergruppe	... in which the transmission ratio is changed by adjustment of a crank, an eccentric, a wobble-plate, or a cam, on one of the shafts [1, 2006.01]
F16H 29/06	3-Punkt Untergruppe	... with concentric shafts, an annular intermediate member moving around and being supported on an adjustable crank or eccentric [1, 2006.01]
F16H 29/08	2-Punkt Untergruppe	... in which the transmission ratio is changed by adjustment of the path of movement, the location of the pivot, or the effective length, of an oscillating connecting member [1, 2006.01]
F16H 29/10	2-Punkt Untergruppe	... in which the transmission ratio is changed by directly acting on the intermittently driving members [1, 2006.01]
F16H 29/12	1-Punkt Untergruppe	. between rotary driving and driven members (F16H 29/20, F16H 29/22 take precedence) [1, 2006.01]
F16H 29/14	2-Punkt Untergruppe	... in which the transmission ratio is changed by adjustment of an otherwise stationary guide member for the intermittently-driving members [1, 2006.01]
F16H 29/16	2-Punkt Untergruppe	... in which the transmission ratio is changed by adjustment of the distance between the axes of the rotary members [1, 2006.01]
F16H 29/18	3-Punkt Untergruppe	... in which the intermittently-driving members slide along approximately radial guides while rotating with one of the rotary members [1, 2006.01]
F16H 29/20	1-Punkt Untergruppe	. the intermittently-acting members being shaped as worms, screws, or racks [1, 2006.01]
F16H 29/22	1-Punkt Untergruppe	. with automatic speed change [1, 2006.01]
F16H 31/00	Hauptgruppe	Other gearings with freewheeling members or other intermittently-driving members (F16H 21/00, F16H 23/00, F16H 25/00 take precedence; gearings involving the use of automatic changing-mechanisms, e.g. cyclically-actuated reversal gearings, <u>see the appropriate groups</u>) [1, 2006.01]
F16H 33/00	Hauptgruppe	Gearings based on repeated accumulation and delivery of energy [1, 2006.01]
F16H 33/02	1-Punkt Untergruppe	. Rotary transmissions with mechanical accumulators, e.g. weights, springs, intermittently-connected flywheels [1, 2006.01]
F16H 33/04	2-Punkt Untergruppe	... Gearings for conveying rotary motion with variable velocity ratio, in which self-regulation is sought [1, 2006.01]
F16H 33/06	3-Punkt Untergruppe	... based essentially on spring action (ratchet slip couplings F16D 7/04) [1, 2006.01]
F16H 33/08	3-Punkt Untergruppe	... based essentially on inertia [1, 2006.01]
F16H 33/10	4-Punkt Untergruppe	.... with gyroscopic action, e.g. comprising wobble-plates, oblique cranks [1, 2006.01]
F16H 33/12	4-Punkt Untergruppe	..... with a driving member connected differentially with both a driven member and an oscillatory member with large resistance to movement, e.g. Constantinesco gearing [1, 2006.01]
F16H 33/14	4-Punkt Untergruppe	..... having orbital members influenced by regulating masses [1, 2006.01]
F16H 33/16	5-Punkt Untergruppe	..... which have their own free motion, or consist of fluid [1, 2006.01]
F16H 33/18	5-Punkt Untergruppe	..... of which the motion is constrained [1, 2006.01]
F16H 33/20	1-Punkt Untergruppe	. for interconversion, based essentially on inertia, of rotary motion and reciprocating or oscillating motion [1, 2006.01]

Symbol	Typ	Titel
F16H 35/00	Hauptgruppe	Gearings or mechanisms with other special functional features [1, 2006.01]
F16H 35/02	1-Punkt Untergruppe	. for conveying rotary motion with cyclically-varying velocity ratio (speed-changing mechanisms operating cyclically, <u>see</u> the appropriate groups) [1, 2006.01]
F16H 35/06	1-Punkt Untergruppe	. Gearings designed to allow relative movement between supports thereof without ill effects (F16H 1/26, F16H 1/48 take precedence) [1, 2006.01]
F16H 35/08	1-Punkt Untergruppe	. for adjustment of members on moving parts from a stationary place [1, 2006.01]
F16H 35/10	1-Punkt Untergruppe	. Arrangements or devices for absorbing overload or preventing damage by overload (couplings for transmitting rotation F16D) [1, 2006.01]
F16H 35/12	1-Punkt Untergruppe	. Transmitting mechanisms with delayed effect (vibration- or shock-dampers in general F16F) [1, 2006.01]
F16H 35/14	1-Punkt Untergruppe	. Mechanisms with only two stable positions, e.g. acting at definite angular positions [1, 2006.01]
F16H 35/16	1-Punkt Untergruppe	. Mechanisms for movements or movement relations conforming to mathematical formulae (devices in which computing operations are performed mechanically G06G 3/00) [1, 2006.01]
F16H 35/18	1-Punkt Untergruppe	. Turning devices for rotatable members, e.g. shafts (starting devices for internal-combustion engines F02N) [1, 2006.01]
F16H 37/00	Hauptgruppe	Combinations of mechanical gearings, not provided for in groups F16H 1/00-F16H 35/00 (combinations of mechanical gearing with fluid clutches or fluid gearing F16H 47/00; applications of underdrives or overdrives in motor vehicles, combinations with differential gearings in motor vehicles B60K) [1, 2006.01]
F16H 37/02	1-Punkt Untergruppe	. comprising essentially only toothed or friction gearings [1, 2006.01]
F16H 37/04	2-Punkt Untergruppe	.. Combinations of toothed gearings only (F16H 37/06 takes precedence) [1, 2006.01]
F16H 37/06	2-Punkt Untergruppe	... with a plurality of driving or driven shafts; with arrangements for dividing torque between two or more intermediate shafts [1, 2006.01]
F16H 37/08	3-Punkt Untergruppe	... with differential gearing [1, 2006.01]
F16H 37/10	4-Punkt Untergruppe	.... at both ends of intermediate shafts [1, 2006.01]
F16H 37/12	1-Punkt Untergruppe	. Gearings comprising primarily toothed or friction gearing, links or levers, and cams, or members of at least two of these three types (F16H 21/14, F16H 21/28, F16H 21/30 take precedence; toothed or friction gearing or cam gearing, with only an additional lever or link, <u>see</u> the appropriate group for the main gearing) [1, 2006.01]
F16H 37/14	2-Punkt Untergruppe	... the movements of two or more independently-moving members being combined into a single movement [1, 2006.01]
F16H 37/16	2-Punkt Untergruppe	... with a driving or driven member which both rotates or oscillates on its axis and reciprocates [1, 2006.01]
Fluid gearing [3]		
F16H 39/00	Hauptgruppe	Rotary fluid gearing using pumps and motors of the volumetric type, i.e. passing a predetermined volume of fluid per revolution (control of exclusively fluid gearing F16H 61/38; fluid couplings or clutches with pumping sets of volumetric type F16D 31/00; application to lifting or pushing equipment B66F) [1, 5, 2006.01]
F16H 39/01	1-Punkt Untergruppe	. Pneumatic gearing; Gearing working with subatmospheric pressure (pneumatic hammers B25D 9/00) [2, 2006.01]
F16H 39/02	1-Punkt Untergruppe	. with liquid motors at a distance from liquid pumps [1, 2006.01]
F16H 39/04	1-Punkt Untergruppe	. with liquid motor and pump combined in one unit [1, 2006.01]
F16H 39/06	2-Punkt Untergruppe	... pump and motor being of the same type [1, 2006.01]

Symbol	Typ	Titel
F16H 39/08	3-Punkt Untergruppe	... each with one main shaft and provided with pistons reciprocating in cylinders [1, 2006.01]
F16H 39/10	4-Punkt Untergruppe	.... with cylinders arranged around, and parallel or approximately parallel to, the main axis of the gearing [1, 2006.01]
F16H 39/12	5-Punkt Untergruppe	..... with stationary cylinders [1, 2006.01]
F16H 39/14	5-Punkt Untergruppe	..... with cylinders carried in rotary cylinder blocks or cylinder-bearing members [1, 2006.01]
F16H 39/16	4-Punkt Untergruppe	.... with cylinders arranged perpendicular to the main axis of the gearing [1, 2006.01]
F16H 39/18	5-Punkt Untergruppe	.... the connections of the pistons being at the outer ends of the cylinders [1, 2006.01]
F16H 39/20	5-Punkt Untergruppe	.... the connections of the pistons being at the inner ends of the cylinders [1, 2006.01]
F16H 39/22	3-Punkt Untergruppe	... with liquid chambers shaped as bodies of revolution concentric with the main axis of the gearing [1, 2006.01]
F16H 39/24	4-Punkt Untergruppe	.... with rotary displacement members, e.g. provided with axially or radially movable vanes passing movable sealing members [1, 2006.01]
F16H 39/26	3-Punkt Untergruppe	... with liquid chambers not shaped as bodies of revolution or shaped as bodies of revolution eccentric to the main axis of the gearing [1, 2006.01]
F16H 39/28	4-Punkt Untergruppe	.... with liquid chambers formed in rotary members [1, 2006.01]
F16H 39/30	4-Punkt Untergruppe	.... with liquid chambers formed in stationary members [1, 2006.01]
F16H 39/32	5-Punkt Untergruppe	..... with sliding vanes carried by the rotor [1, 2006.01]
F16H 39/34	3-Punkt Untergruppe	... in which a rotor on one shaft co-operates with a rotor on another shaft [1, 2006.01]
F16H 39/36	4-Punkt Untergruppe	.... toothed-gear type [1, 2006.01]
F16H 39/38	4-Punkt Untergruppe	.... Displacement screw-pump type [1, 2006.01]
F16H 39/40	3-Punkt Untergruppe	... Hydraulic differential gearings, e.g. having a rotary input housing with interconnected liquid chambers for both outputs [1, 2006.01]
F16H 39/42	2-Punkt Untergruppe	... pump and motor being of different types [1, 2006.01]
F16H 41/00	Hauptgruppe	Rotary fluid gearing of the hydrokinetic type (control of exclusively fluid gearing F16H 61/38; rotary fluid couplings or clutches of the hydrokinetic type F16D 33/00) [1, 5, 2006.01]
F16H 41/02	1-Punkt Untergruppe	. with pump and turbine connected by conduits or ducts [1, 2006.01]
F16H 41/04	1-Punkt Untergruppe	. Combined pump-turbine units [1, 2006.01]
F16H 41/22	2-Punkt Untergruppe	.. Gearing systems consisting of a plurality of hydrokinetic units operating alternatively, e.g. made effective or ineffective by filling or emptying or by mechanical clutches [1, 2006.01]
F16H 41/24	1-Punkt Untergruppe	. Details [1, 2006.01]
F16H 41/26	2-Punkt Untergruppe	.. Shape of runner blades or channels with respect to function [1, 2006.01]
F16H 41/28	2-Punkt Untergruppe	.. with respect to manufacture, e.g. blade attachment [1, 2006.01]
F16H 41/30	2-Punkt Untergruppe	.. relating to venting, lubrication, cooling, circulation of the cooling medium [1, 2006.01]
F16H 41/32	1-Punkt Untergruppe	. Selection of working fluids (chemical aspects, <u>see</u> the relevant classes) [1, 2006.01]
F16H 43/00	Hauptgruppe	Other fluid gearing, e.g. with oscillating input or output [1, 2, 2006.01]
F16H 43/02	1-Punkt Untergruppe	. Fluid gearing actuated by pressure waves [2, 2006.01]

Symbol	Typ	Titel
F16H 45/00	Hauptgruppe	Combinations of fluid gearings for conveying rotary motion with couplings or clutches (F16H 41/22 takes precedence; conjoint control of driveline clutches and change-speed gearing in vehicles B60W 10/02, B60W 10/10) [1, 2, 2006.01]
F16H 45/02	1-Punkt Untergruppe	. with mechanical clutches for bridging a fluid gearing of the hydrokinetic type (control of torque converter lock-up clutches F16H 61/14) [1, 2006.01]
F16H 47/00	Hauptgruppe	Combinations of mechanical gearing with fluid clutches or fluid gearing (conjoint control of driveline clutches and change-speed gearing in vehicles B60W 10/02, B60W 10/10) [1, 2, 2006.01]
F16H 47/02	1-Punkt Untergruppe	. the fluid gearing being of the volumetric type [1, 2006.01]
F16H 47/04	2-Punkt Untergruppe	.. the mechanical gearing being of the type with members having orbital motion [1, 2006.01]
F16H 47/06	1-Punkt Untergruppe	.. the fluid gearing being of the hydrokinetic type [1, 2006.01]
F16H 47/07	2-Punkt Untergruppe	.. using two or more power-transmitting fluid circuits (F16H 47/10 takes precedence) [2, 2006.01]
F16H 47/08	2-Punkt Untergruppe	.. the mechanical gearing being of the type with members having orbital motion [1, 2006.01]
F16H 47/10	3-Punkt Untergruppe	... using two or more power-transmitting fluid circuits [2, 2006.01]
F16H 47/12	3-Punkt Untergruppe	... the members with orbital motion having vanes interacting with the fluid [2, 2006.01]
F16H 48/00	Hauptgruppe	Differential gearings (cooling or lubricating of differential gearing F16H 57/04) [6, 2006.01, 2012.01]
F16H 48/05	1-Punkt Untergruppe	. Multiple interconnected differential sets [2012.01]
F16H 48/06	1-Punkt Untergruppe	. with gears having orbital motion [6, 2006.01]
F16H 48/08	2-Punkt Untergruppe	.. with orbital conical gears [6, 2006.01]
F16H 48/10	2-Punkt Untergruppe	.. with orbital spur gears [6, 2006.01, 2012.01]
F16H 48/11	3-Punkt Untergruppe	... having intermeshing planet gears [2012.01]
F16H 48/12	1-Punkt Untergruppe	. without gears having orbital motion [6, 2006.01, 2012.01]
F16H 48/14	2-Punkt Untergruppe	.. with cams [6, 2006.01]
F16H 48/16	2-Punkt Untergruppe	.. with freewheels [6, 2006.01]
F16H 48/18	2-Punkt Untergruppe	.. with fluid gearing [6, 2006.01]
F16H 48/19	2-Punkt Untergruppe	.. consisting of two linked clutches [2012.01]
F16H 48/20	1-Punkt Untergruppe	. Arrangements for suppressing or influencing the differential action, e.g. locking devices [6, 2006.01, 2012.01]
F16H 48/22	2-Punkt Untergruppe	.. using friction clutches or brakes [6, 2006.01]
F16H 48/24	2-Punkt Untergruppe	.. using positive clutches or brakes [6, 2006.01]
F16H 48/26	2-Punkt Untergruppe	.. using fluid action, e.g. viscous clutches [6, 2006.01]
F16H 48/27	2-Punkt Untergruppe	.. using internally-actuated fluid pressure, e.g. internal pump types [2012.01]
F16H 48/28	2-Punkt Untergruppe	.. using self-locking gears or self-braking gears [6, 2006.01, 2012.01]
F16H 48/285	3-Punkt Untergruppe	... with self-braking intermeshing gears having parallel axes and having worms or helical teeth [2012.01]
F16H 48/29	3-Punkt Untergruppe	... with self-braking intermeshing gears having perpendicular arranged axes and having worms or helical teeth [2012.01]

Symbol	Typ	Titel
F16H 48/295	2-Punkt Untergruppe	... using multiple means for force boosting [2012.01]
F16H 48/30	2-Punkt Untergruppe	... using externally-actuated means [6, 2006.01, 2012.01]
F16H 48/32	3-Punkt Untergruppe	... using fluid pressure actuators [2012.01]
F16H 48/34	3-Punkt Untergruppe	... using electromagnetic or electric actuators [2012.01]
F16H 48/36	1-Punkt Untergruppe	. characterised by intentionally generating speed difference between outputs [2012.01]
F16H 48/38	1-Punkt Untergruppe	. Constructional details (the outer casing comprising the differential and supporting input and output shafts F16H 57/037) [2012.01]
F16H 48/40	2-Punkt Untergruppe	... characterised by features of the rotating cases [2012.01]
F16H 48/42	2-Punkt Untergruppe	... characterised by features of the input shafts, e.g. mounting of drive gears thereon [2012.01]
F16H 49/00	Hauptgruppe	Other gearing [1, 2006.01]
		<u>Details of gearing or mechanisms</u>
F16H 51/00	Hauptgruppe	Levers of gearing mechanisms (shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connecting-rods F16C; manipulating levers G05G) [1, 2006.01]
F16H 51/02	1-Punkt Untergruppe	. adjustable [1, 2006.01]
F16H 53/00	Hauptgruppe	Cams or cam-follower, e.g. rollers for gearing mechanisms (shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connecting-rods F16C; cams specially adapted for reciprocating-piston liquid engines F03C 1/30) [1, 2006.01]
F16H 53/02	1-Punkt Untergruppe	. Single-track cams for single-revolution cycles; Camshafts with such cams [1, 2006.01]
F16H 53/04	2-Punkt Untergruppe	... Adjustable cams [1, 2006.01]
F16H 53/06	1-Punkt Untergruppe	. Cam-followers (F16H 53/08 takes precedence) [1, 2006.01]
F16H 53/08	1-Punkt Untergruppe	. Multi-track cams, e.g. for cycles consisting of several revolutions; Cam-followers specially adapted for such cams [1, 2006.01]
F16H 55/00	Hauptgruppe	Elements with teeth or friction surfaces for conveying motion; Worms, pulleys or sheaves for gearing mechanisms (of screw-and-nut gearing F16H 25/00; shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connecting-rods F16C; chains, belts F16G; pulley-blocks for lifting or hauling appliances B66D 3/04) [1, 4, 2006.01]
F16H 55/02	1-Punkt Untergruppe	. Toothed members; Worms [1, 2006.01]
F16H 55/06	2-Punkt Untergruppe	... Use of materials; Use of treatments of toothed members or worms to affect their intrinsic material properties [1, 3, 2006.01]
F16H 55/08	2-Punkt Untergruppe	... Profiling [1, 3, 2006.01]
F16H 55/10	2-Punkt Untergruppe	... Constructively simple tooth shapes, e.g. shaped as pins, as balls [1, 3, 2006.01]
F16H 55/12	2-Punkt Untergruppe	... with body or rim assembled out of detachable parts [1, 3, 2006.01]
F16H 55/14	2-Punkt Untergruppe	... Construction providing resilience or vibration-damping (F16H 55/06 takes precedence; resilient coupling of wheel or wheel-rim with shaft F16D 3/50, F16D 3/80) [1, 3, 2006.01]
F16H 55/16	3-Punkt Untergruppe	... relating to teeth only [1, 3, 2006.01]
F16H 55/17	2-Punkt Untergruppe	... Toothed wheels (worm wheels F16H 55/22; chain wheels F16H 55/30) [3, 2006.01]
F16H 55/18	3-Punkt Untergruppe	... Special devices for taking-up backlash [1, 2006.01]
F16H 55/20	4-Punkt Untergruppe	.... for bevel gears [1, 2006.01]

Symbol	Typ	Titel
F16H 55/22	2-Punkt Untergruppe	... for transmissions with crossing shafts, especially worms, worm-gears (bevel gears, crown wheels, helical gears F16H 55/17) [1, 2006.01]
F16H 55/24	3-Punkt Untergruppe	... Special devices for taking up backlash [1, 2006.01]
F16H 55/26	2-Punkt Untergruppe	... Racks [1, 2006.01]
F16H 55/28	3-Punkt Untergruppe	... Special devices for taking up backlash [1, 2006.01]
F16H 55/30	2-Punkt Untergruppe	... Chain wheels (specially adapted for cycles B62M) [1, 2006.01]
F16H 55/32	1-Punkt Untergruppe	. Friction members (friction surfaces F16D 69/00) [1, 2006.01]
F16H 55/34	2-Punkt Untergruppe	... Non-adjustable friction discs [1, 2006.01]
F16H 55/36	2-Punkt Untergruppe	... Pulleys (with features essential for adjustment F16H 55/52) [1, 2006.01]
F16H 55/38	3-Punkt Untergruppe	... Means or measures for increasing adhesion (in general F16D 69/00) [1, 2006.01]
F16H 55/40	3-Punkt Untergruppe	... with spokes (F16H 55/48 takes precedence) [1, 2006.01]
F16H 55/42	3-Punkt Untergruppe	... Laminated pulleys [1, 2006.01]
F16H 55/44	3-Punkt Untergruppe	... Sheet-metal pulleys [1, 2006.01]
F16H 55/46	3-Punkt Untergruppe	... Split pulleys [1, 2006.01]
F16H 55/48	3-Punkt Untergruppe	... manufactured exclusively or in part of non-metallic material, e.g. plastics (F16H 55/38, F16H 55/42, F16H 55/46 take precedence) [1, 2006.01]
F16H 55/49	3-Punkt Untergruppe	... Features essential to V-belt pulleys [2, 2006.01]
F16H 55/50	3-Punkt Untergruppe	... Features essential to rope pulleys [1, 2006.01]
F16H 55/52	2-Punkt Untergruppe	... Pulleys or friction discs of adjustable construction [1, 2006.01]
F16H 55/54	3-Punkt Untergruppe	... of which the bearing parts are radially adjustable [1, 2006.01]
F16H 55/56	3-Punkt Untergruppe	... of which the bearing parts are relatively axially adjustable [1, 2006.01]
F16H 57/00	Hauptgruppe	General details of gearing (of screw-and-nut gearing F16H 25/00; of fluid gearing F16H 39/00- F16H 43/00) [1, 2006.01, 2012.01]
F16H 57/01	1-Punkt Untergruppe	. Monitoring wear or stress of gearing elements, e.g. for triggering maintenance [2012.01]
F16H 57/02	1-Punkt Untergruppe	. Gearboxes; Mounting gearing therein [1, 2006.01, 2012.01]
F16H 57/021	2-Punkt Untergruppe	... Shaft support structures, e.g. partition walls, bearing eyes, casing walls or covers with bearings [2012.01]
F16H 57/022	3-Punkt Untergruppe	... Adjustment of gear shafts or bearings (for compensating misalignment of axes of toothed gearings without orbital motion F16H 1/26; for compensating misalignment of axes of planetary gears F16H 1/48) [2012.01]
F16H 57/023	2-Punkt Untergruppe	... Mounting or installation of gears or shafts in gearboxes, e.g. methods or means for assembly [2012.01]
F16H 57/025	2-Punkt Untergruppe	... Support of gearboxes, e.g. torque arms, or attachment to other devices (mounting of transmissions in vehicles B60K 17/00) [2012.01]
F16H 57/027	2-Punkt Untergruppe	... characterised by means for venting gearboxes, e.g. air breathers [2012.01]
F16H 57/028	2-Punkt Untergruppe	... characterised by means for reducing vibration or noise [2012.01]
F16H 57/029	2-Punkt Untergruppe	... characterised by means for sealing gearboxes, e.g. to improve airtightness [2012.01]

Symbol	Typ	Titel
F16H 57/03	2-Punkt Untergruppe	... characterised by means for reinforcing gearboxes, e.g. ribs [2012.01]
F16H 57/031	2-Punkt Untergruppe	... characterised by covers or lids for gearboxes [2012.01]
F16H 57/032	2-Punkt Untergruppe	... characterised by the materials used [2012.01]
F16H 57/033	2-Punkt Untergruppe	... Series gearboxes, e.g. gearboxes based on the same design being available in different sizes or gearboxes using a combination of several standardised units [2012.01]
F16H 57/035	2-Punkt Untergruppe	... Gearboxes for gearing with endless flexible members [2012.01]
F16H 57/037	2-Punkt Untergruppe	... Gearboxes for accommodating differential gearing (rotating cases for differential gearings F16H 48/40) [2012.01]
F16H 57/038	2-Punkt Untergruppe	... Gearboxes for accommodating bevel gears (F16H 57/037 takes precedence) [2012.01]
F16H 57/039	2-Punkt Untergruppe	... Gearboxes for accommodating worm gears [2012.01]
F16H 57/04	1-Punkt Untergruppe	. Features relating to lubrication or cooling (control of lubrication or cooling in hydrostatic gearing F16H 61/4165) [1, 2006.01, 2010.01]
F16H 57/05	2-Punkt Untergruppe	... of chains (for conveyors B65G 45/08) [1, 2006.01]
F16H 57/08	1-Punkt Untergruppe	. of gearings with members having orbital motion [1, 2006.01]
F16H 57/10	2-Punkt Untergruppe	... Braking arrangements [1, 2006.01]
F16H 57/12	1-Punkt Untergruppe	. Arrangements for adjusting or for taking-up backlash not provided for elsewhere [2, 2006.01]
<u>Control of gearing conveying rotary motion [5]</u>		
F16H 59/00	Hauptgruppe	Control inputs to change-speed- or reversing-gearings for conveying rotary motion [5, 2006.01]
F16H 59/02	1-Punkt Untergruppe	. Selector apparatus [5, 2006.01]
F16H 59/04	2-Punkt Untergruppe	... Ratio selector apparatus [5, 2006.01]
F16H 59/06	3-Punkt Untergruppe	... the ratio being infinitely variable [5, 2006.01]
F16H 59/08	2-Punkt Untergruppe	... Range selector apparatus [5, 2006.01]
F16H 59/10	3-Punkt Untergruppe	... comprising levers [5, 2006.01]
F16H 59/12	3-Punkt Untergruppe	... comprising push button devices [5, 2006.01]
F16H 59/14	1-Punkt Untergruppe	. Inputs being a function of torque or torque demand [5, 2006.01]
F16H 59/16	2-Punkt Untergruppe	... Dynamometric measurement of torque [5, 2006.01]
F16H 59/18	2-Punkt Untergruppe	... dependent on the position of the accelerator pedal [5, 2006.01]
F16H 59/20	3-Punkt Untergruppe	... Kickdown [5, 2006.01]
F16H 59/22	3-Punkt Untergruppe	... Idle position [5, 2006.01]
F16H 59/24	2-Punkt Untergruppe	... dependent on the throttle opening [5, 2006.01]
F16H 59/26	2-Punkt Untergruppe	... dependent on pressure [5, 2006.01]
F16H 59/28	3-Punkt Untergruppe	... Gasifier pressure in gas turbines [5, 2006.01]
F16H 59/30	3-Punkt Untergruppe	... Intake manifold vacuum [5, 2006.01]
F16H 59/32	3-Punkt Untergruppe	... Supercharger pressure in internal combustion engines [5, 2006.01]

Symbol	Typ	Titel
F16H 59/34	2-Punkt Untergruppe	... dependent on fuel feed [5, 2006.01]
F16H 59/36	1-Punkt Untergruppe	. Inputs being a function of speed [5, 2006.01]
F16H 59/38	2-Punkt Untergruppe	... of gearing elements [5, 2006.01]
F16H 59/40	3-Punkt Untergruppe	... Output shaft speed [5, 2006.01]
F16H 59/42	3-Punkt Untergruppe	... Input shaft speed [5, 2006.01]
F16H 59/44	2-Punkt Untergruppe	... dependent on machine speed (F16H 59/46 takes precedence) [5, 2006.01]
F16H 59/46	2-Punkt Untergruppe	... dependent on a comparison between speeds [5, 2006.01]
F16H 59/48	1-Punkt Untergruppe	. Inputs being a function of acceleration [5, 2006.01]
F16H 59/50	1-Punkt Untergruppe	. Inputs being a function of the status of the machine, e.g. position of doors or safety belts [5, 2006.01]
F16H 59/52	2-Punkt Untergruppe	... dependent on the weight of the machine, e.g. change in weight resulting from passengers boarding a bus [5, 2006.01]
F16H 59/54	2-Punkt Untergruppe	... dependent on signals from the brakes, e.g. parking brakes [5, 2006.01]
F16H 59/56	2-Punkt Untergruppe	... dependent on signals from the main clutch [5, 2006.01]
F16H 59/58	2-Punkt Untergruppe	... dependent on signals from the steering [5, 2006.01]
F16H 59/60	1-Punkt Untergruppe	. Inputs being a function of ambient conditions [5, 2006.01]
F16H 59/62	2-Punkt Untergruppe	... Atmospheric pressure [5, 2006.01]
F16H 59/64	2-Punkt Untergruppe	... Atmospheric temperature [5, 2006.01]
F16H 59/66	2-Punkt Untergruppe	... Road conditions, e.g. slope, slippery [5, 2006.01]
F16H 59/68	1-Punkt Untergruppe	. Inputs being a function of gearing status [5, 2006.01]
F16H 59/70	2-Punkt Untergruppe	... dependent on the ratio established [5, 2006.01]
F16H 59/72	2-Punkt Untergruppe	... dependent on oil characteristics, e.g. temperature, viscosity [5, 2006.01]
F16H 59/74	1-Punkt Untergruppe	. Inputs being a function of engine parameters (F16H 59/14 takes precedence) [5, 2006.01]
F16H 59/76	2-Punkt Untergruppe	... Number of cylinders operating [5, 2006.01]
F16H 59/78	2-Punkt Untergruppe	... Temperature [5, 2006.01]
F16H 61/00	Hauptgruppe	Control functions within change-speed- or reversing-gearings for conveying rotary motion [5, 2006.01]
F16H 61/02	1-Punkt Untergruppe	. characterised by the signals used [5, 2006.01]
F16H 61/04	1-Punkt Untergruppe	. Smoothing ratio shift [5, 2006.01]
F16H 61/06	2-Punkt Untergruppe	... by controlling rate of change of fluid pressure [5, 2006.01]
F16H 61/08	2-Punkt Untergruppe	... Timing control [5, 2006.01]
F16H 61/10	1-Punkt Untergruppe	. Controlling shift hysteresis [5, 2006.01]
F16H 61/12	1-Punkt Untergruppe	. Detecting malfunction or potential malfunction, e.g. fail safe (in control of hydrostatic gearing F16H 61/4192) [5, 2006.01, 2010.01]
F16H 61/14	1-Punkt Untergruppe	. Control of torque converter lock-up clutches [5, 2006.01]

Symbol	Typ	Titel
F16H 61/16	1-Punkt Untergruppe	. Inhibiting shift during unfavourable conditions (F16H 61/18 takes precedence) [5, 2006.01]
F16H 61/18	1-Punkt Untergruppe	. Preventing unintentional or unsafe shift (constructional features of the final output mechanisms F16H 63/30) [5, 2006.01]
F16H 61/20	1-Punkt Untergruppe	. Preventing gear creeping [5, 2006.01]
F16H 61/21	1-Punkt Untergruppe	. Providing engine brake control [7, 2006.01]
F16H 61/22	1-Punkt Untergruppe	. Locking (F16H 63/34 takes precedence) [5, 2006.01]
F16H 61/24	1-Punkt Untergruppe	. Providing feel, e.g. to enable selection [5, 2006.01]
F16H 61/26	1-Punkt Untergruppe	. Generation or transmission of movements for final actuating mechanisms [5, 2006.01]
F16H 61/28	2-Punkt Untergruppe	.. with at least one movement of the final actuating mechanism being caused by a non-mechanical force, e.g. power-assisted [5, 2006.01]
F16H 61/30	3-Punkt Untergruppe	... Hydraulic motors therefor [5, 2006.01]
F16H 61/32	3-Punkt Untergruppe	... Electric motors therefor [5, 2006.01]
F16H 61/34	2-Punkt Untergruppe	.. comprising two mechanisms, one for the preselection movement, and one for the shifting movement (F16H 61/36 takes precedence) [5, 2006.01]
F16H 61/36	2-Punkt Untergruppe	.. with at least one movement being transmitted by a cable [5, 2006.01]
F16H 61/38	1-Punkt Untergruppe	. Control of exclusively fluid gearing [5, 2006.01]
F16H 61/40	2-Punkt Untergruppe	.. hydrostatic (involving modification of the gearing F16H 39/02, F16H 39/04) [5, 2006.01, 2010.01]
F16H 61/4008	3-Punkt Untergruppe	... Control of circuit pressure [2010.01]
F16H 61/4017	4-Punkt Untergruppe	.... Control of high pressure, e.g. avoiding excess pressure by a relief valve [2010.01]
F16H 61/4026	4-Punkt Untergruppe	.... Control of low pressure [2010.01]
F16H 61/4035	3-Punkt Untergruppe	... Control of circuit flow [2010.01]
F16H 61/4043	3-Punkt Untergruppe	... Control of a bypass valve [2010.01]
F16H 61/4052	4-Punkt Untergruppe	.... by using a variable restriction, e.g. an orifice valve [2010.01]
F16H 61/4061	3-Punkt Untergruppe	... Control related to directional control valves, e.g. change-over valves, for crossing the feeding conduits (forward reverse switching by using swash plate F16H 61/438) [2010.01]
F16H 61/4069	3-Punkt Untergruppe	... Valves related to the control of neutral, e.g. shut off valves (zero tilt rotation holding means F16H 61/439) [2010.01]
F16H 61/4078	3-Punkt Untergruppe	... Fluid exchange between hydrostatic circuits and external sources or consumers [2010.01]
F16H 61/4096	4-Punkt Untergruppe	.... with pressure accumulators [2010.01]
F16H 61/4104	4-Punkt Untergruppe	.... Flushing, e.g. by using flushing valves or by connection to exhaust [2010.01]
F16H 61/4131	4-Punkt Untergruppe	.... Fluid exchange by aspiration from reservoirs, e.g. sump [2010.01]
F16H 61/4139	4-Punkt Untergruppe	.... Replenishing or scavenging pumps, e.g. auxiliary charge pumps [2010.01]
F16H 61/4148	3-Punkt Untergruppe	... Open loop circuits [2010.01]
F16H 61/4157	3-Punkt Untergruppe	... Control of braking, e.g. preventing pump over-speeding when motor acts as a pump [2010.01]

Symbol	Typ	Titel
F16H 61/4165	3-Punkt Untergruppe	... Control of cooling or lubricating [2010.01]
F16H 61/4174	3-Punkt Untergruppe	... Control of venting, e.g. removing trapped air [2010.01]
F16H 61/4183	3-Punkt Untergruppe	... Preventing or reducing vibrations or noise, e.g. avoiding cavitations [2010.01]
F16H 61/4192	3-Punkt Untergruppe	... Detecting malfunction or potential malfunction, e.g. fail safe [2010.01]
F16H 61/42	3-Punkt Untergruppe	... involving adjustment of a pump or motor with adjustable output or capacity [5, 2006.01, 2010.01]
F16H 61/421	4-Punkt Untergruppe	.... Motor capacity control by electro-hydraulic control means, e.g. using solenoid valves [2010.01]
F16H 61/423	4-Punkt Untergruppe	.... Motor capacity control by fluid pressure control means [2010.01]
F16H 61/425	4-Punkt Untergruppe	.... Motor capacity control by electric actuators [2010.01]
F16H 61/427	4-Punkt Untergruppe	.... Motor capacity control by mechanical control means, e.g. by levers or pedals [2010.01]
F16H 61/431	4-Punkt Untergruppe	.... Pump capacity control by electro-hydraulic control means, e.g. using solenoid valve [2010.01]
F16H 61/433	4-Punkt Untergruppe	.... Pump capacity control by fluid pressure control means [2010.01]
F16H 61/435	4-Punkt Untergruppe	.... Pump capacity control by electric actuators [2010.01]
F16H 61/437	4-Punkt Untergruppe	.... Pump capacity control by mechanical control means, e.g. by levers or pedals [2010.01]
F16H 61/438	4-Punkt Untergruppe	.... Control of forward-reverse switching, e.g. control of the swash plate causing discharge in two directions (using a directional control valve F16H 61/4061) [2010.01]
F16H 61/439	4-Punkt Untergruppe	.... Control of the neutral position, e.g. by zero tilt rotation holding means (using a neutral valve or a shutoff valve F16H 61/4069) [2010.01]
F16H 61/44	3-Punkt Untergruppe	... with more than one pump or motor unit in operation [5, 2006.01]
F16H 61/444	4-Punkt Untergruppe	.... by changing the number of pump or motor units in operation [2010.01]
F16H 61/448	4-Punkt Untergruppe	.... Control circuits for tandem pumps or motors [2010.01]
F16H 61/452	4-Punkt Untergruppe	.... Selectively controlling multiple pumps or motors, e.g. switching between series or parallel [2010.01]
F16H 61/456	4-Punkt Untergruppe	.... Control of the balance of torque or speed between pumps or motors (hydrostatic differentials F16H 48/18) [2010.01]
F16H 61/46	3-Punkt Untergruppe	... Automatic regulation in accordance with output requirements [5, 2006.01, 2010.01]
F16H 61/462	4-Punkt Untergruppe	.... for achieving a target speed ratio [2010.01]
F16H 61/465	4-Punkt Untergruppe	.... for achieving a target input speed [2010.01]
F16H 61/468	4-Punkt Untergruppe	.... for achieving a target input torque [2010.01]
F16H 61/47	4-Punkt Untergruppe	.... for achieving a target output speed [2010.01]
F16H 61/472	4-Punkt Untergruppe	.... for achieving a target output torque [2010.01]
F16H 61/475	4-Punkt Untergruppe	.... for achieving a target power, e.g. input power or output power [2010.01]
F16H 61/478	4-Punkt Untergruppe	.... for preventing overload, e.g. high pressure limitation [2010.01]
F16H 61/48	2-Punkt Untergruppe	... hydrodynamic [5, 2006.01]
F16H 61/50	3-Punkt Untergruppe	... controlled by changing the flow, force, or reaction of the liquid in the working circuit, while maintaining a completely filled working circuit [5, 2006.01]

Symbol	Typ	Titel
F16H 61/52	4-Punkt Untergruppe	.... by altering the position of blades [5, 2006.01]
F16H 61/54	5-Punkt Untergruppe	..... by means of axially-shiftable blade runners [5, 2006.01]
F16H 61/56	5-Punkt Untergruppe	..... to change the blade angle [5, 2006.01]
F16H 61/58	4-Punkt Untergruppe	.... by change of the mechanical connection of, or between, the runners [5, 2006.01]
F16H 61/60	5-Punkt Untergruppe	..... exclusively by the use of freewheel clutches [5, 2006.01]
F16H 61/62	5-Punkt Untergruppe	..... involving use of a speed-changing gearing or of a clutch in the connection between runners (F16H 45/02, F16H 61/60 take precedence) [5, 2006.01]
F16H 61/64	3-Punkt Untergruppe	... controlled by changing the amount of liquid in the working circuit [5, 2006.01]
F16H 61/66	1-Punkt Untergruppe	. specially adapted for continuously variable gearings (F16H 61/38 takes precedence; orbital toothed gearings with a secondary drive in order to vary the speed continuously F16H 3/72) [2006.01]
F16H 61/662	2-Punkt Untergruppe	.. with endless flexible members [2006.01]
F16H 61/664	2-Punkt Untergruppe	.. Friction gearings [2006.01]
F16H 61/68	1-Punkt Untergruppe	. specially adapted for stepped gearings [2006.01]
F16H 61/682	2-Punkt Untergruppe	.. with interruption of drive [2006.01]
F16H 61/684	2-Punkt Untergruppe	.. without interruption of drive [2006.01]
F16H 61/686	3-Punkt Untergruppe	... with orbital gears [2006.01]
F16H 61/688	3-Punkt Untergruppe	... with two inputs, e.g. selection of one of two torque-flow paths by clutches [2006.01]
F16H 61/70	1-Punkt Untergruppe	. specially adapted for change-speed gearing in group arrangement, i.e. with separate change-speed gear trains arranged in series, e.g. range or overdrive-type gearing arrangements [2006.01]
F16H 63/00	Hauptgruppe	Control outputs to change-speed- or reversing-gearings for conveying rotary motion [5, 2006.01]
F16H 63/02	1-Punkt Untergruppe	. Final output mechanisms therefor; Actuating means for the final output mechanisms [5, 2006.01]
F16H 63/04	2-Punkt Untergruppe	... a single final output mechanism being moved by a single final actuating mechanism [5, 2006.01]
F16H 63/06	3-Punkt Untergruppe	... the final output mechanism having an indefinite number of positions [5, 2006.01]
F16H 63/08	2-Punkt Untergruppe	... Multiple final output mechanisms being moved by a single common final actuating mechanism [5, 2006.01]
F16H 63/10	3-Punkt Untergruppe	... the final actuating mechanism having a series of independent ways of movement, each way of movement being associated with only one final output mechanism [5, 2006.01]
F16H 63/12	4-Punkt Untergruppe	.... two or more ways of movement occurring simultaneously [5, 2006.01]
F16H 63/14	3-Punkt Untergruppe	... the final output mechanisms being successively actuated by repeated movement of the final actuating mechanism [5, 2006.01]
F16H 63/16	3-Punkt Untergruppe	... the final output mechanisms being successively actuated by progressive movement of the final actuating mechanism [5, 2006.01]
F16H 63/18	4-Punkt Untergruppe	.... the final actuating mechanism comprising cams [5, 2006.01]
F16H 63/20	3-Punkt Untergruppe	... with preselection and subsequent movement of each final output mechanism by movement of the final actuating mechanism in two different ways, e.g. guided by a shift gate [5, 2006.01]
F16H 63/22	4-Punkt Untergruppe	.... the final output mechanisms being simultaneously moved by the final actuating mechanism [5, 2006.01]

Symbol	Typ	Titel
F16H 63/24	2-Punkt Untergruppe	... each of the final output mechanisms being moved by only one of the various final actuating mechanisms [5, 2006.01]
F16H 63/26	3-Punkt Untergruppe	... some of the movements of the final output mechanisms being caused by another final output mechanism [5, 2006.01]
F16H 63/28	2-Punkt Untergruppe	... two or more final actuating mechanisms moving the same final output mechanism [5, 2006.01]
F16H 63/30	2-Punkt Untergruppe	... Constructional features of the final output mechanisms [5, 2006.01]
F16H 63/32	3-Punkt Untergruppe	... Gear shifter yokes [5, 2006.01]
F16H 63/34	3-Punkt Untergruppe	... Locking or disabling mechanisms [5, 2006.01]
F16H 63/36	4-Punkt Untergruppe	.... Interlocking devices [5, 2006.01]
F16H 63/38	3-Punkt Untergruppe	... Detents [5, 2006.01]
F16H 63/40	1-Punkt Untergruppe	. comprising signals other than signals for actuating the final output mechanisms [5, 2006.01]
F16H 63/42	2-Punkt Untergruppe	... Ratio indicator devices [5, 2006.01]
F16H 63/44	2-Punkt Untergruppe	... Signals to the control unit of auxiliary gearing [5, 2006.01]
F16H 63/46	2-Punkt Untergruppe	... Signals to a clutch outside the gearbox [5, 2006.01]
F16H 63/48	2-Punkt Untergruppe	... Signals to a parking brake [5, 2006.01]
F16H 63/50	2-Punkt Untergruppe	... Signals to an engine or motor [7, 2006.01]