

| Symbol | Typ | Titel |
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| F | Sektion | SECTION F — 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) |
| F16H 1/02 | 1-Punkt Untergruppe | . without gears having orbital motion |
| F16H 1/04 | 2-Punkt Untergruppe | ... involving only two intermeshing members |
| F16H 1/06 | 3-Punkt Untergruppe | with parallel axes |
| F16H 1/08 | 4-Punkt Untergruppe | the members having helical, herring-bone, or like teeth |
| F16H 1/10 | 4-Punkt Untergruppe | one of the members being internally toothed |
| F16H 1/12 | 3-Punkt Untergruppe | with non-parallel axes |
| F16H 1/14 | 4-Punkt Untergruppe | comprising conical gears only |
| F16H 1/16 | 4-Punkt Untergruppe | comprising worm and worm-wheel |
| F16H 1/18 | 4-Punkt Untergruppe | the members having helical, herring-bone, or like teeth (F16H 1/14 takes precedence) |
| F16H 1/20 | 2-Punkt Untergruppe | ... involving more than two intermeshing members |
| 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 |
| F16H 1/24 | 2-Punkt Untergruppe | ... involving gears essentially having intermeshing elements other than involute or cycloidal teeth (F16H 1/16 takes precedence) |
| F16H 1/26 | 2-Punkt Untergruppe | ... Special means compensating for misalignment of axes |
| F16H 1/28 | 1-Punkt Untergruppe | . with gears having orbital motion |
| 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 |
| F16H 1/32 | 2-Punkt Untergruppe | ... in which the central axis of the gearing lies inside the periphery of an orbital gear |
| F16H 1/34 | 2-Punkt Untergruppe | ... involving gears essentially having intermeshing elements other than involute or cycloidal teeth (in worm gearing F16H 1/30) |
| F16H 1/36 | 2-Punkt Untergruppe | ... with two central gears coupled by intermeshing orbital gears |
| F16H 1/46 | 2-Punkt Untergruppe | ... Systems consisting of a plurality of gear trains, each with orbital gears |
| F16H 1/48 | 2-Punkt Untergruppe | ... Special means compensating for misalignment of axes |
| 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) |
| F16H 3/02 | 1-Punkt Untergruppe | . without gears having orbital motion |
| F16H 3/04 | 2-Punkt Untergruppe | ... with internally-toothed gears |

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| F16H 3/06 | 2-Punkt Untergruppe | ... with worm and worm-wheel or gears essentially having helical or herring-bone teeth |
| F16H 3/08 | 2-Punkt Untergruppe | ... exclusively or essentially with continuously-meshing gears, that can be disengaged from their shafts |
| F16H 3/083 | 3-Punkt Untergruppe | ... with radially acting and axially controlled clutching members, e.g. sliding keys [5] |
| F16H 3/085 | 3-Punkt Untergruppe | ... with more than one output shaft [5] |
| F16H 3/087 | 3-Punkt Untergruppe | ... characterised by the disposition of the gears (F16H 3/083, F16H 3/085 take precedence) [5] |
| 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] |
| F16H 3/091 | 4-Punkt Untergruppe | including a single countershaft [5] |
| F16H 3/093 | 4-Punkt Untergruppe | with two or more countershafts [5] |
| F16H 3/095 | 5-Punkt Untergruppe | with means for ensuring an even distribution of torque between the countershafts [5] |
| F16H 3/097 | 5-Punkt Untergruppe | the input and output shafts being aligned on the same axis [5] |
| F16H 3/10 | 3-Punkt Untergruppe | ... with one or more one-way clutches as an essential feature |
| F16H 3/12 | 3-Punkt Untergruppe | ... with means for synchronisation not incorporated in the clutches (synchronised clutches F16D 23/02) |
| F16H 3/14 | 3-Punkt Untergruppe | ... Gearings for reversal only |
| 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 |
| F16H 3/18 | 3-Punkt Untergruppe | ... Gearings for reversal only |
| F16H 3/20 | 2-Punkt Untergruppe | ... exclusively or essentially using gears that can be moved out of gear |
| F16H 3/22 | 3-Punkt Untergruppe | ... with gears shiftable only axially |
| F16H 3/24 | 4-Punkt Untergruppe | with driving and driven shafts coaxial |
| F16H 3/26 | 5-Punkt Untergruppe | and two or more additional shafts |
| F16H 3/28 | 6-Punkt Untergruppe | an additional shaft being coaxial with the main shafts |
| F16H 3/30 | 4-Punkt Untergruppe | with driving and driven shafts not coaxial |
| F16H 3/32 | 5-Punkt Untergruppe | and an additional shaft |
| F16H 3/34 | 3-Punkt Untergruppe | ... with gears shiftable otherwise than only axially |
| F16H 3/36 | 3-Punkt Untergruppe | ... with a single gear meshable with any of a set of coaxial gears of different diameters |
| F16H 3/38 | 3-Punkt Untergruppe | ... with synchro-meshing |
| F16H 3/40 | 3-Punkt Untergruppe | ... Gearings for reversal only |
| F16H 3/42 | 2-Punkt Untergruppe | ... with gears having teeth formed or arranged for obtaining multiple gear ratios, e.g. nearly infinitely variable |
| F16H 3/44 | 1-Punkt Untergruppe | . using gears having orbital motion |
| F16H 3/46 | 2-Punkt Untergruppe | ... Gearings having only two central gears, connected by orbital gears (F16H 3/68-F16H 3/78 take precedence) |
| F16H 3/48 | 3-Punkt Untergruppe | ... with single orbital gears or pairs of rigidly-connected orbital gears |

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| F16H 3/50 | 4-Punkt Untergruppe | comprising orbital conical gears |
| F16H 3/52 | 4-Punkt Untergruppe | comprising orbital spur gears |
| F16H 3/54 | 5-Punkt Untergruppe | one of the central gears being internally toothed and the other externally toothed |
| F16H 3/56 | 5-Punkt Untergruppe | both central gears being sun gears |
| F16H 3/58 | 3-Punkt Untergruppe | ... with sets of orbital gears, each consisting of two or more intermeshing orbital gears |
| F16H 3/60 | 3-Punkt Untergruppe | ... Gearings for reversal only |
| F16H 3/62 | 2-Punkt Untergruppe | ... Gearings having three or more central gears (F16H 3/68-F16H 3/78 take precedence) |
| 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 |
| F16H 3/66 | 3-Punkt Untergruppe | ... composed of a number of gear trains without drive passing from one train to another |
| 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 |
| F16H 3/70 | 2-Punkt Untergruppe | ... in which the central axis of the gearing lies inside the periphery of an orbital gear |
| F16H 3/72 | 2-Punkt Untergruppe | ... with a secondary drive, e.g. regulating motor, in order to vary speed continuously |
| 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 |
| 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 |
| F16H 3/78 | 2-Punkt Untergruppe | ... Special adaptation of synchronisation mechanisms to these gearings |
| <u>Gearing for conveying rotary motion by endless flexible members (flexible members, e.g. belts, chains per se F16G)</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) |
| F16H 7/02 | 1-Punkt Untergruppe | . with belts; with V-belts |
| F16H 7/04 | 1-Punkt Untergruppe | . with ropes |
| F16H 7/06 | 1-Punkt Untergruppe | . with chains |
| F16H 7/08 | 1-Punkt Untergruppe | . Means for varying tension of belts, ropes, or chains (pulleys of adjustable construction F16H 55/52) |
| F16H 7/10 | 2-Punkt Untergruppe | ... by adjusting the axis of a pulley |
| F16H 7/12 | 3-Punkt Untergruppe | ... of an idle pulley |
| F16H 7/14 | 3-Punkt Untergruppe | ... of a driving or driven pulley |
| F16H 7/16 | 4-Punkt Untergruppe | without adjusting the driving or driven shaft |
| F16H 7/18 | 1-Punkt Untergruppe | . Means for guiding or supporting belts, ropes, or chains (construction of pulleys F16H 55/36) |
| F16H 7/20 | 2-Punkt Untergruppe | ... Mountings for rollers or pulleys |
| F16H 7/22 | 1-Punkt Untergruppe | . Belt, rope, or chain shifters |
| F16H 7/24 | 1-Punkt Untergruppe | . Equipment for mounting belts, ropes, or chains |
| 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 |

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| F16H 59/00-F16H 63/00) | | |
| F16H 9/02 | 1-Punkt Untergruppe | . without members having orbital motion |
| 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) |
| F16H 9/06 | 3-Punkt Untergruppe | ... engaging a stepped pulley |
| F16H 9/08 | 3-Punkt Untergruppe | ... engaging a conical drum (F16H 9/12 takes precedence) |
| F16H 9/10 | 3-Punkt Untergruppe | ... engaging a pulley provided with radially-actuatable elements carrying the belt |
| 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 |
| F16H 9/14 | 4-Punkt Untergruppe | using only one pulley built-up out of adjustable conical parts |
| F16H 9/16 | 4-Punkt Untergruppe | using two pulleys, both built-up out of adjustable conical parts |
| F16H 9/18 | 5-Punkt Untergruppe | only one flange of each pulley being adjustable |
| F16H 9/20 | 5-Punkt Untergruppe | both flanges of the pulleys being adjustable |
| F16H 9/22 | 3-Punkt Untergruppe | ... specially adapted for ropes |
| 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) |
| F16H 9/26 | 1-Punkt Untergruppe | . with members having orbital motion |
| <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) |
| F16H 13/02 | 1-Punkt Untergruppe | . without members having orbital motion |
| F16H 13/04 | 2-Punkt Untergruppe | .. with balls or with rollers acting in a similar manner |
| F16H 13/06 | 1-Punkt Untergruppe | . with members having orbital motion |
| F16H 13/08 | 2-Punkt Untergruppe | .. with balls or with rollers acting in a similar manner |
| F16H 13/10 | 1-Punkt Untergruppe | . Means for influencing the pressure between the members |
| F16H 13/12 | 2-Punkt Untergruppe | .. by magnetic forces |
| F16H 13/14 | 2-Punkt Untergruppe | .. for automatically varying the pressure mechanically |
| 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) |
| F16H 15/01 | 1-Punkt Untergruppe | . characterised by the use of a magnetisable powder or liquid as friction medium between the rotary members [2] |
| F16H 15/02 | 1-Punkt Untergruppe | . without members having orbital motion |
| F16H 15/04 | 2-Punkt Untergruppe | .. Gearings providing a continuous range of gear ratios |
| 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 |
| F16H 15/08 | 4-Punkt Untergruppe | in which the member B is a disc with a flat or approximately-flat friction surface |

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| F16H 15/10 | 5-Punkt Untergruppe | in which the axes of the two members cross or intersect |
| 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 |
| F16H 15/14 | 5-Punkt Untergruppe | in which the axes of the members are parallel or approximately parallel |
| F16H 15/16 | 4-Punkt Untergruppe | in which the member B has a conical friction surface |
| F16H 15/18 | 5-Punkt Untergruppe | externally |
| 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 |
| F16H 15/22 | 6-Punkt Untergruppe | the axes of the members being parallel or approximately parallel |
| F16H 15/24 | 5-Punkt Untergruppe | internally |
| F16H 15/26 | 4-Punkt Untergruppe | in which the member B has a spherical friction surface centered on its axis of revolution |
| F16H 15/28 | 5-Punkt Untergruppe | with external friction surface |
| F16H 15/30 | 5-Punkt Untergruppe | with internal friction surface |
| 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 |
| F16H 15/34 | 5-Punkt Untergruppe | with convex friction surface |
| F16H 15/36 | 5-Punkt Untergruppe | with concave friction surface, e.g. a hollow toroid surface |
| 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 |
| 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 |
| 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 |
| F16H 15/44 | 3-Punkt Untergruppe | ... in which two members of non-uniform effective diameter directly co-operate with one another |
| F16H 15/46 | 2-Punkt Untergruppe | ... Gearings providing a discontinuous or stepped range of gear ratios |
| F16H 15/48 | 1-Punkt Untergruppe | . with members having orbital motion |
| F16H 15/50 | 2-Punkt Untergruppe | ... Gearings providing a continuous range of gear ratios |
| 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 |
| 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 |
| F16H 15/56 | 2-Punkt Untergruppe | ... Gearings providing a discontinuous or stepped range of gear ratios |
| F16H 19/00 | Hauptgruppe | Gearings comprising essentially only toothed gears or friction members and not capable of 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) |
| F16H 19/02 | 1-Punkt Untergruppe | . for interconverting rotary motion and reciprocating motion |
| F16H 19/04 | 2-Punkt Untergruppe | ... comprising a rack |

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| F16H 19/06 | 2-Punkt Untergruppe | ... comprising an endless flexible member |
| F16H 19/08 | 1-Punkt Untergruppe | . for interconverting rotary motion and oscillating motion <u>Gearing for conveying or converting motion by means of levers, links, or cams (combinations of gearings of different types F16H 37/00)</u> |
| F16H 21/00 | Hauptgruppe | Gearings comprising primarily only links or levers, with or without slides (F16H 23/00 takes precedence) |
| F16H 21/02 | 1-Punkt Untergruppe | . the movements of two or more independently-moving members being combined into a single movement |
| F16H 21/04 | 1-Punkt Untergruppe | . Guiding mechanisms, e.g. for straight-line guidance (for drawing-machines B43L) |
| F16H 21/06 | 1-Punkt Untergruppe | . which can be made ineffective when desired |
| F16H 21/08 | 2-Punkt Untergruppe | .. by pushing a reciprocating rod out of its operative position |
| F16H 21/10 | 1-Punkt Untergruppe | . all movement being in, or parallel to, a single plane |
| F16H 21/12 | 2-Punkt Untergruppe | .. for conveying rotary motion |
| 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 |
| F16H 21/16 | 2-Punkt Untergruppe | ... for interconverting rotary motion and reciprocating motion |
| F16H 21/18 | 3-Punkt Untergruppe | ... Crank gearings; Eccentric gearings |
| F16H 21/20 | 4-Punkt Untergruppe | with adjustment of throw (adjustable cranks or eccentrics F16C 3/28; adjustable connecting-rods F16C 7/06) |
| F16H 21/22 | 4-Punkt Untergruppe | with one connecting-rod and one guided slide to each crank or eccentric |
| F16H 21/24 | 5-Punkt Untergruppe | without further links or guides |
| F16H 21/26 | 5-Punkt Untergruppe | with toggle action |
| F16H 21/28 | 5-Punkt Untergruppe | with cams or additional guides |
| F16H 21/30 | 5-Punkt Untergruppe | with members having rolling contact |
| F16H 21/32 | 5-Punkt Untergruppe | with additional members comprising only pivoted links or arms |
| F16H 21/34 | 4-Punkt Untergruppe | with two or more connecting-rods to each crank or eccentric |
| F16H 21/36 | 4-Punkt Untergruppe | without swinging connecting-rod, e.g. with epicyclic parallel motion, slot-and- crank motion |
| F16H 21/38 | 4-Punkt Untergruppe | with means for temporary energy accumulation, e.g. to overcome dead-centre positions |
| F16H 21/40 | 2-Punkt Untergruppe | .. for interconverting rotary motion and oscillating motion |
| F16H 21/42 | 3-Punkt Untergruppe | ... with adjustable throw |
| F16H 21/44 | 2-Punkt Untergruppe | .. for conveying or interconverting oscillating or reciprocating motions |
| F16H 21/46 | 1-Punkt Untergruppe | . with movements in three dimensions |
| F16H 21/48 | 2-Punkt Untergruppe | .. for conveying rotary motion |
| F16H 21/50 | 2-Punkt Untergruppe | .. for interconverting rotary motion and reciprocating motion |
| F16H 21/52 | 2-Punkt Untergruppe | .. for interconverting rotary motion and oscillating motion |
| F16H 21/54 | 2-Punkt Untergruppe | .. for conveying or interconverting oscillating or reciprocating motions |

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| F16H 23/00 | Hauptgruppe | Wobble-plate gearings; Oblique-crank gearings |
| 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) |
| F16H 23/04 | 1-Punkt Untergruppe | . with non-rotary wobble-members |
| F16H 23/06 | 2-Punkt Untergruppe | .. with sliding members hinged to reciprocating members |
| F16H 23/08 | 2-Punkt Untergruppe | .. connected to reciprocating members by connecting-rods |
| F16H 23/10 | 1-Punkt Untergruppe | . with rotary wobble-plates with plane surfaces |
| F16H 25/00 | Hauptgruppe | Gearings comprising primarily only cams, cam-followers and screw-and-nut mechanisms |
| F16H 25/02 | 1-Punkt Untergruppe | . the movements of two or more independently-moving members being combined into a single movement |
| F16H 25/04 | 1-Punkt Untergruppe | . for conveying rotary motion |
| F16H 25/06 | 2-Punkt Untergruppe | .. with intermediate members guided along tracks on both rotary members |
| F16H 25/08 | 1-Punkt Untergruppe | . for interconverting rotary motion and reciprocating motion (F16H 23/00 takes precedence) |
| F16H 25/10 | 2-Punkt Untergruppe | .. with adjustable throw (adjustable cams F16H 53/04) |
| F16H 25/12 | 2-Punkt Untergruppe | .. with reciprocation along the axis of rotation, e.g. gearings with helical grooves and automatic reversal (screw mechanisms without automatic reversal F16H 25/20) |
| F16H 25/14 | 2-Punkt Untergruppe | .. with reciprocation perpendicular to the axis of rotation (F16H 21/36 takes precedence) |
| F16H 25/16 | 1-Punkt Untergruppe | . for interconverting rotary motion and oscillating motion |
| F16H 25/18 | 1-Punkt Untergruppe | . for conveying or interconverting oscillating or reciprocating motions |
| F16H 25/20 | 2-Punkt Untergruppe | .. Screw mechanisms (with automatic reversal F16H 25/12) |
| 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 |
| F16H 25/24 | 3-Punkt Untergruppe | ... Elements essential to such mechanisms, e.g. screws, nuts (F16H 25/22 takes precedence) |
| <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) |
| F16H 27/02 | 1-Punkt Untergruppe | . with at least one reciprocating or oscillating transmission member |
| F16H 27/04 | 1-Punkt Untergruppe | . for converting continuous rotation into a step-by-step rotary movement |
| F16H 27/06 | 2-Punkt Untergruppe | .. Mechanisms with driving pins in driven slots, e.g. Geneva drives |
| F16H 27/08 | 2-Punkt Untergruppe | .. with driving toothed gears with interrupted toothing |
| 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 |
| F16H 29/00 | Hauptgruppe | Gearings for conveying rotary motion with intermittently-driving members, e.g. with freewheel action (freewheels F16D 41/00) |
| 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) |
| 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 |

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| F16H 29/06 | 3-Punkt Untergruppe | ... with concentric shafts, an annular intermediate member moving around and being supported on an adjustable crank or eccentric |
| 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 |
| F16H 29/10 | 2-Punkt Untergruppe | ... in which the transmission ratio is changed by directly acting on the intermittently driving members |
| F16H 29/12 | 1-Punkt Untergruppe | . between rotary driving and driven members (F16H 29/20, F16H 29/22 take precedence) |
| 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 |
| 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 |
| 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 |
| F16H 29/20 | 1-Punkt Untergruppe | . the intermittently-acting members being shaped as worms, screws, or racks |
| F16H 29/22 | 1-Punkt Untergruppe | . with automatic speed change |
| 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>) |
| F16H 33/00 | Hauptgruppe | Gearings based on repeated accumulation and delivery of energy |
| F16H 33/02 | 1-Punkt Untergruppe | . Rotary transmissions with mechanical accumulators, e.g. weights, springs, intermittently-connected flywheels |
| F16H 33/04 | 2-Punkt Untergruppe | ... Gearings for conveying rotary motion with variable velocity ratio, in which self-regulation is sought |
| F16H 33/06 | 3-Punkt Untergruppe | ... based essentially on spring action (ratchet slip couplings F16D 7/04) |
| F16H 33/08 | 3-Punkt Untergruppe | ... based essentially on inertia |
| F16H 33/10 | 4-Punkt Untergruppe | with gyroscopic action, e.g. comprising wobble-plates, oblique cranks |
| 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 |
| F16H 33/14 | 4-Punkt Untergruppe | having orbital members influenced by regulating masses |
| F16H 33/16 | 5-Punkt Untergruppe | which have their own free motion, or consist of fluid |
| F16H 33/18 | 5-Punkt Untergruppe | of which the motion is constrained |
| F16H 33/20 | 1-Punkt Untergruppe | . for interconversion, based essentially on inertia, of rotary motion and reciprocating or oscillating motion |
| F16H 35/00 | Hauptgruppe | Gearings or mechanisms with other special functional features |
| F16H 35/02 | 1-Punkt Untergruppe | . for conveying rotary motion with cyclically-varying velocity ratio (speed-changing mechanisms operating cyclically, <u>see the appropriate groups</u>) |
| 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) |
| F16H 35/08 | 1-Punkt Untergruppe | . for adjustment of members on moving parts from a stationary place |
| F16H 35/10 | 1-Punkt Untergruppe | . Arrangements or devices for absorbing overload or preventing damage by overload (couplings for transmitting rotation F16D) |

| Symbol | Typ | Titel |
|-------------------|---------------------|--|
| F16H 35/12 | 1-Punkt Untergruppe | . Transmitting mechanisms with delayed effect (vibration- or shock-dampers in general F16F) |
| F16H 35/14 | 1-Punkt Untergruppe | . Mechanisms with only two stable positions, e.g. acting at definite angular positions |
| 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) |
| F16H 35/18 | 1-Punkt Untergruppe | . Turning devices for rotatable members, e.g. shafts (starting devices for internal-combustion engines F02N) |
| F16H 37/00 | Hauptgruppe | Combinations of mechanical gearings, not hereinbefore provided for (applications of underdrives or overdrives in motor vehicles, combinations with differential gearings in motor vehicles B60K) |
| F16H 37/02 | 1-Punkt Untergruppe | . comprising essentially only toothed or friction gearings |
| F16H 37/04 | 2-Punkt Untergruppe | .. Combinations of toothed gearings only (F16H 37/06 takes precedence) |
| 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 |
| F16H 37/08 | 3-Punkt Untergruppe | ... with differential gearing |
| F16H 37/10 | 4-Punkt Untergruppe | at both ends of intermediate shafts |
| 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) |
| F16H 37/14 | 2-Punkt Untergruppe | .. the movements of two or more independently-moving members being combined into a single movement |
| F16H 37/16 | 2-Punkt Untergruppe | .. with a driving or driven member which both rotates or oscillates on its axis and reciprocates |
| | | <u>Fluid gearing (fluid actuators F15B; couplings or clutches with a fluid or semifluid as power-transmitting means F16D 31/00-F16D 39/00; fluid-resistance brakes F16D 57/00) [3]</u> |
| 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; application to lifting or pushing equipment B66F) [5] |
| F16H 39/01 | 1-Punkt Untergruppe | . Pneumatic gearing; Gearing working with subatmospheric pressure (pneumatic hammers B25D 9/00) [2] |
| F16H 39/02 | 1-Punkt Untergruppe | . with liquid motors at a distance from liquid pumps |
| F16H 39/04 | 1-Punkt Untergruppe | . with liquid motor and pump combined in one unit |
| F16H 39/06 | 2-Punkt Untergruppe | .. pump and motor being of the same type |
| F16H 39/08 | 3-Punkt Untergruppe | ... each with one main shaft and provided with pistons reciprocating in cylinders |
| F16H 39/10 | 4-Punkt Untergruppe | with cylinders arranged around, and parallel or approximately parallel to, the main axis of the gearing |
| F16H 39/12 | 5-Punkt Untergruppe | with stationary cylinders |
| F16H 39/14 | 5-Punkt Untergruppe | with cylinders carried in rotary cylinder blocks or cylinder-bearing members |
| F16H 39/16 | 4-Punkt Untergruppe | with cylinders arranged perpendicular to the main axis of the gearing |
| F16H 39/18 | 5-Punkt Untergruppe | the connections of the pistons being at the outer ends of the cylinders |
| F16H 39/20 | 5-Punkt Untergruppe | the connections of the pistons being at the inner ends of the cylinders |
| F16H 39/22 | 3-Punkt Untergruppe | ... with liquid chambers shaped as bodies of revolution concentric with the main axis of the gearing |
| F16H 39/24 | 4-Punkt Untergruppe | with rotary displacement members, e.g. provided with axially or radially movable vanes passing movable sealing members |

| Symbol | Typ | Titel |
|-------------------|---------------------|--|
| 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 |
| F16H 39/28 | 4-Punkt Untergruppe | with liquid chambers formed in rotary members |
| F16H 39/30 | 4-Punkt Untergruppe | with liquid chambers formed in stationary members |
| F16H 39/32 | 5-Punkt Untergruppe | with sliding vanes carried by the rotor |
| F16H 39/34 | 3-Punkt Untergruppe | ... in which a rotor on one shaft co-operates with a rotor on another shaft |
| F16H 39/36 | 4-Punkt Untergruppe | toothed-gear type |
| F16H 39/38 | 4-Punkt Untergruppe | Displacement screw-pump type |
| F16H 39/40 | 3-Punkt Untergruppe | ... Hydraulic differential gearings, e.g. having a rotary input housing with interconnected liquid chambers for both outputs |
| F16H 39/42 | 2-Punkt Untergruppe | ... pump and motor being of different types |
| F16H 41/00 | Hauptgruppe | Rotary fluid gearing of the hydrokinetic type (control of exclusively fluid gearing F16H 61/38) [5] |
| F16H 41/02 | 1-Punkt Untergruppe | . with pump and turbine connected by conduits or ducts |
| F16H 41/04 | 1-Punkt Untergruppe | . Combined pump-turbine units |
| 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 |
| F16H 41/24 | 1-Punkt Untergruppe | . Details |
| F16H 41/26 | 2-Punkt Untergruppe | .. Shape of runner blades or channels with respect to function |
| F16H 41/28 | 2-Punkt Untergruppe | .. with respect to manufacture, e.g. blade attachment |
| F16H 41/30 | 2-Punkt Untergruppe | .. relating to venting, lubrication, cooling, circulation of the cooling medium |
| F16H 41/32 | 1-Punkt Untergruppe | . Selection of working fluids (chemical aspects, <u>see</u> the relevant classes) |
| F16H 43/00 | Hauptgruppe | Other fluid gearing, e.g. with oscillating input or output [2] |
| F16H 43/02 | 1-Punkt Untergruppe | . Fluid gearing actuated by pressure waves [2] |
| 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) [2] |
| 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) |
| 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) [2] |
| F16H 47/02 | 1-Punkt Untergruppe | . the fluid gearing being of the volumetric type |
| F16H 47/04 | 2-Punkt Untergruppe | .. the mechanical gearing being of the type with members having orbital motion |
| F16H 47/06 | 1-Punkt Untergruppe | . the fluid gearing being of the hydrokinetic type |
| F16H 47/07 | 2-Punkt Untergruppe | .. using two or more power-transmitting fluid circuits (F16H 47/10 takes precedence) [2] |
| F16H 47/08 | 2-Punkt Untergruppe | .. the mechanical gearing being of the type with members having orbital motion |
| F16H 47/10 | 3-Punkt Untergruppe | ... using two or more power-transmitting fluid circuits [2] |
| F16H 47/12 | 3-Punkt Untergruppe | ... the members with orbital motion having vanes interacting with the fluid [2] |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| F16H 48/00 | Hauptgruppe | Differential gearings [6] |
| F16H 48/02 | 1-Punkt Untergruppe | . Transfer gears for influencing drive between outputs [6] |
| F16H 48/04 | 2-Punkt Untergruppe | .. having unequal torque transfer between two outputs [6] |
| F16H 48/06 | 1-Punkt Untergruppe | .. with gears having orbital motion [6] |
| F16H 48/08 | 2-Punkt Untergruppe | .. with orbital conical gears [6] |
| F16H 48/10 | 2-Punkt Untergruppe | .. with orbital spur gears [6] |
| F16H 48/12 | 1-Punkt Untergruppe | .. without gears having orbital motion [6] |
| F16H 48/14 | 2-Punkt Untergruppe | .. with cams [6] |
| F16H 48/16 | 2-Punkt Untergruppe | .. with freewheels [6] |
| F16H 48/18 | 2-Punkt Untergruppe | .. with fluid gearing [6] |
| F16H 48/20 | 1-Punkt Untergruppe | . Arrangements for suppressing or influencing the differential action, e.g. locking devices [6] |
| F16H 48/22 | 2-Punkt Untergruppe | .. using friction clutches or brakes [6] |
| F16H 48/24 | 2-Punkt Untergruppe | .. using positive clutches or brakes [6] |
| F16H 48/26 | 2-Punkt Untergruppe | .. using fluid action, e.g. viscous clutches [6] |
| F16H 48/28 | 2-Punkt Untergruppe | .. using self-locking gears [6] |
| F16H 48/30 | 2-Punkt Untergruppe | .. using externally-actuated locking devices [6] |
| F16H 49/00 | Hauptgruppe | Other gearing |
| | | <u>Details of gearing or mechanisms (of screw-and-nut gearing F16H 25/00; of fluid gearing F16H 39/00-F16H 43/00; shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connecting-rods F16C; chains, belts F16G; piston-rods F16J 7/00)</u> |
| F16H 51/00 | Hauptgruppe | Levers (manipulating levers G05G) |
| F16H 51/02 | 1-Punkt Untergruppe | . adjustable |
| F16H 53/00 | Hauptgruppe | Cams; Non-rotary cams; Cam-follower, e.g. rollers (cams specially adapted for reciprocating-piston liquid engines F03C 1/30) |
| F16H 53/02 | 1-Punkt Untergruppe | . Single-track cams for single-revolution cycles; Camshafts with such cams |
| F16H 53/04 | 2-Punkt Untergruppe | .. Adjustable cams |
| F16H 53/06 | 1-Punkt Untergruppe | . Cam-followers (F16H 53/08 takes precedence) |
| F16H 53/08 | 1-Punkt Untergruppe | . Multi-track cams, e.g. for cycles consisting of several revolutions; Cam-followers specially adapted for such cams |
| F16H 55/00 | Hauptgruppe | Elements with teeth or friction surfaces for conveying motion; Worms; Pulleys; Sheaves (pulley-blocks for lifting or hauling appliances B66D 3/04) [4] |
| F16H 55/02 | 1-Punkt Untergruppe | . Toothed members; Worms |
| F16H 55/06 | 2-Punkt Untergruppe | .. Use of materials; Use of treatments of toothed members or worms to affect their intrinsic material properties [3] |
| F16H 55/08 | 2-Punkt Untergruppe | .. Profiling [3] |
| F16H 55/10 | 2-Punkt Untergruppe | .. Constructively simple tooth shapes, e.g. shaped as pins, as balls [3] |
| F16H 55/12 | 2-Punkt Untergruppe | .. with body or rim assembled out of detachable parts [3] |

| Symbol | Typ | Titel |
|-------------------|---------------------|--|
| 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) [3] |
| F16H 55/16 | 3-Punkt Untergruppe | ... relating to teeth only [3] |
| F16H 55/17 | 2-Punkt Untergruppe | ... Toothed wheels (worm wheels F16H 55/22; chain wheels F16H 55/30) [3] |
| F16H 55/18 | 3-Punkt Untergruppe | ... Special devices for taking-up backlash |
| F16H 55/20 | 4-Punkt Untergruppe | for bevel gears |
| F16H 55/22 | 2-Punkt Untergruppe | ... for transmissions with crossing shafts, especially worms, worm-gears (bevel gears, crown wheels, helical gears F16H 55/17) |
| F16H 55/24 | 3-Punkt Untergruppe | ... Special devices for taking up backlash |
| F16H 55/26 | 2-Punkt Untergruppe | ... Racks |
| F16H 55/28 | 3-Punkt Untergruppe | ... Special devices for taking up backlash |
| F16H 55/30 | 2-Punkt Untergruppe | ... Chain wheels (specially adapted for cycles B62M) |
| F16H 55/32 | 1-Punkt Untergruppe | . Friction members (friction surfaces F16D 69/00) |
| F16H 55/34 | 2-Punkt Untergruppe | ... Non-adjustable friction discs |
| F16H 55/36 | 2-Punkt Untergruppe | ... Pulleys (with features essential for adjustment F16H 55/52) |
| F16H 55/38 | 3-Punkt Untergruppe | ... Means or measures for increasing adhesion (in general F16D 69/00) |
| F16H 55/40 | 3-Punkt Untergruppe | ... with spokes (F16H 55/48 takes precedence) |
| F16H 55/42 | 3-Punkt Untergruppe | ... Laminated pulleys |
| F16H 55/44 | 3-Punkt Untergruppe | ... Sheet-metal pulleys |
| F16H 55/46 | 3-Punkt Untergruppe | ... Split pulleys |
| 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) |
| F16H 55/49 | 3-Punkt Untergruppe | ... Features essential to V-belt pulleys [2] |
| F16H 55/50 | 3-Punkt Untergruppe | ... Features essential to rope pulleys |
| F16H 55/52 | 2-Punkt Untergruppe | ... Pulleys or friction discs of adjustable construction |
| F16H 55/54 | 3-Punkt Untergruppe | ... of which the bearing parts are radially adjustable |
| F16H 55/56 | 3-Punkt Untergruppe | ... of which the bearing parts are relatively axially adjustable |
| F16H 57/00 | Hauptgruppe | General details of gearing |
| F16H 57/02 | 1-Punkt Untergruppe | . Gear-boxes; Mounting gearing therein |
| F16H 57/04 | 1-Punkt Untergruppe | . Features relating to lubrication or cooling |
| F16H 57/05 | 2-Punkt Untergruppe | .. of chains (for conveyors B65G 45/08) |
| F16H 57/08 | 1-Punkt Untergruppe | . of gearings with members having orbital motion |
| F16H 57/10 | 2-Punkt Untergruppe | .. Braking arrangements |
| F16H 57/12 | 1-Punkt Untergruppe | . Arrangements for adjusting or for taking-up backlash not provided for elsewhere [2] |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| | | <u>Control of gearing conveying rotary motion (orbital toothed gearings with a secondary drive in order to vary the speed continuously F16H 3/72; varying the speed ratio of driving or feeding mechanisms of machine tools B23Q 5/12, B23Q 5/46; conjoint control of drive units for vehicles B60W; cycle transmissions B62M; marine propulsion B63H) [5]</u> |
| F16H 59/00 | Hauptgruppe | Control inputs to change-speed- or reversing-gearings for conveying rotary motion [5] |
| F16H 59/02 | 1-Punkt Untergruppe | . Selector apparatus [5] |
| F16H 59/04 | 2-Punkt Untergruppe | .. Ratio selector apparatus [5] |
| F16H 59/06 | 3-Punkt Untergruppe | ... the ratio being infinitely variable [5] |
| F16H 59/08 | 2-Punkt Untergruppe | ... Range selector apparatus [5] |
| F16H 59/10 | 3-Punkt Untergruppe | ... comprising levers [5] |
| F16H 59/12 | 3-Punkt Untergruppe | ... comprising push button devices [5] |
| F16H 59/14 | 1-Punkt Untergruppe | . Inputs being a function of torque or torque demand [5] |
| F16H 59/16 | 2-Punkt Untergruppe | .. Dynamometric measurement of torque [5] |
| F16H 59/18 | 2-Punkt Untergruppe | ... dependent on the position of the accelerator pedal [5] |
| F16H 59/20 | 3-Punkt Untergruppe | ... Kickdown [5] |
| F16H 59/22 | 3-Punkt Untergruppe | ... Idle position [5] |
| F16H 59/24 | 2-Punkt Untergruppe | .. dependent on the throttle opening [5] |
| F16H 59/26 | 2-Punkt Untergruppe | .. dependent on pressure [5] |
| F16H 59/28 | 3-Punkt Untergruppe | ... Gasifier pressure in gas turbines [5] |
| F16H 59/30 | 3-Punkt Untergruppe | ... Intake manifold vacuum [5] |
| F16H 59/32 | 3-Punkt Untergruppe | ... Supercharger pressure in internal combustion engines [5] |
| F16H 59/34 | 2-Punkt Untergruppe | .. dependent on fuel feed [5] |
| F16H 59/36 | 1-Punkt Untergruppe | . Inputs being a function of speed [5] |
| F16H 59/38 | 2-Punkt Untergruppe | .. of gearing elements [5] |
| F16H 59/40 | 3-Punkt Untergruppe | ... Output shaft speed [5] |
| F16H 59/42 | 3-Punkt Untergruppe | ... Input shaft speed [5] |
| F16H 59/44 | 2-Punkt Untergruppe | .. dependent on machine speed (F16H 59/46 takes precedence) [5] |
| F16H 59/46 | 2-Punkt Untergruppe | .. dependent on a comparison between speeds [5] |
| F16H 59/48 | 1-Punkt Untergruppe | . Inputs being a function of acceleration [5] |
| 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] |
| 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] |
| F16H 59/54 | 2-Punkt Untergruppe | .. dependent on signals from the brakes, e.g. parking brakes [5] |
| F16H 59/56 | 2-Punkt Untergruppe | .. dependent on signals from the main clutch [5] |
| F16H 59/58 | 2-Punkt Untergruppe | .. dependent on signals from the steering [5] |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| F16H 59/60 | 1-Punkt Untergruppe | . Inputs being a function of ambient conditions [5] |
| F16H 59/62 | 2-Punkt Untergruppe | ... Atmospheric pressure [5] |
| F16H 59/64 | 2-Punkt Untergruppe | ... Atmospheric temperature [5] |
| F16H 59/66 | 2-Punkt Untergruppe | ... Road conditions, e.g. slope, slippery [5] |
| F16H 59/68 | 1-Punkt Untergruppe | . Inputs being a function of gearing status [5] |
| F16H 59/70 | 2-Punkt Untergruppe | ... dependent on the ratio established [5] |
| F16H 59/72 | 2-Punkt Untergruppe | ... dependent on oil characteristics, e.g. temperature, viscosity [5] |
| F16H 59/74 | 1-Punkt Untergruppe | . Inputs being a function of engine parameters (F16H 59/14 takes precedence) [5] |
| F16H 59/76 | 2-Punkt Untergruppe | ... Number of cylinders operating [5] |
| F16H 59/78 | 2-Punkt Untergruppe | ... Temperature [5] |
| F16H 61/00 | Hauptgruppe | Control functions within change-speed- or reversing-gearings for conveying rotary motion [5] |
| F16H 61/02 | 1-Punkt Untergruppe | . characterised by the signals used [5] |
| F16H 61/04 | 1-Punkt Untergruppe | . Smoothing ratio shift [5] |
| F16H 61/06 | 2-Punkt Untergruppe | ... by controlling rate of change of fluid pressure [5] |
| F16H 61/08 | 2-Punkt Untergruppe | ... Timing control [5] |
| F16H 61/10 | 1-Punkt Untergruppe | . Regulating shift hysteresis [5] |
| F16H 61/12 | 1-Punkt Untergruppe | . Detecting malfunction or potential malfunction, e.g. fail safe [5] |
| F16H 61/14 | 1-Punkt Untergruppe | . Control of torque converter lock-up clutches [5] |
| F16H 61/16 | 1-Punkt Untergruppe | . Inhibiting shift during unfavourable conditions (F16H 61/18 takes precedence) [5] |
| F16H 61/18 | 1-Punkt Untergruppe | . Preventing unintentional or unsafe shift (constructional features of the final output mechanisms F16H 63/30) [5] |
| F16H 61/20 | 1-Punkt Untergruppe | . Preventing gear creeping [5] |
| F16H 61/21 | 1-Punkt Untergruppe | . Providing engine brake control [7] |
| F16H 61/22 | 1-Punkt Untergruppe | . Locking (F16H 63/34 takes precedence) [5] |
| F16H 61/24 | 1-Punkt Untergruppe | . Providing feel, e.g. to enable selection [5] |
| F16H 61/26 | 1-Punkt Untergruppe | . Generation or transmission of movements for final actuating mechanisms [5] |
| 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] |
| F16H 61/30 | 3-Punkt Untergruppe | ... Hydraulic motors therefor [5] |
| F16H 61/32 | 3-Punkt Untergruppe | ... Electric motors therefor [5] |
| 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] |
| F16H 61/36 | 2-Punkt Untergruppe | ... with at least one movement being transmitted by a cable [5] |
| F16H 61/38 | 1-Punkt Untergruppe | . Control of exclusively fluid gearing [5] |

| Symbol | Typ | Titel |
|-------------------|---------------------|---|
| F16H 61/40 | 2-Punkt Untergruppe | ... hydrostatic (involving modification of the gearing F16H 39/02, F16H 39/04) [5] |
| F16H 61/42 | 3-Punkt Untergruppe | ... involving adjustment of a pump or motor with adjustable output or capacity [5] |
| F16H 61/44 | 3-Punkt Untergruppe | ... by varying the number of pump or motor units in operation [5] |
| F16H 61/46 | 3-Punkt Untergruppe | ... Automatic regulation in accordance with output requirements (servomotors G05B) [5] |
| F16H 61/48 | 2-Punkt Untergruppe | ... hydrodynamic [5] |
| 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] |
| F16H 61/52 | 4-Punkt Untergruppe | by altering the position of blades [5] |
| F16H 61/54 | 5-Punkt Untergruppe | by means of axially-shiftable blade runners [5] |
| F16H 61/56 | 5-Punkt Untergruppe | to change the blade angle [5] |
| F16H 61/58 | 4-Punkt Untergruppe | by change of the mechanical connection of, or between, the runners [5] |
| F16H 61/60 | 5-Punkt Untergruppe | exclusively by the use of freewheel clutches [5] |
| 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] |
| F16H 61/64 | 3-Punkt Untergruppe | ... controlled by changing the amount of liquid in the working circuit [5] |
| F16H 61/66 | 1-Punkt Untergruppe | <i>... specially adapted for continuously variable gearings (F16H 61/38 takes precedence) [2006.01]</i> |
| F16H 61/662 | 2-Punkt Untergruppe | <i>... with endless flexible members [2006.01]</i> |
| F16H 61/664 | 2-Punkt Untergruppe | <i>... Friction gearings [2006.01]</i> |
| F16H 61/68 | 1-Punkt Untergruppe | <i>... specially adapted for stepped gearings [2006.01]</i> |
| F16H 61/682 | 2-Punkt Untergruppe | <i>... with interruption of drive [2006.01]</i> |
| F16H 61/684 | 2-Punkt Untergruppe | <i>... without interruption of drive [2006.01]</i> |
| F16H 61/686 | 3-Punkt Untergruppe | <i>... with orbital gears [2006.01]</i> |
| F16H 61/688 | 3-Punkt Untergruppe | <i>... with two inputs, e.g. selection of one of two torque-flow paths by clutches [2006.01]</i> |
| F16H 61/70 | 1-Punkt Untergruppe | <i>... 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]</i> |
| F16H 63/00 | Hauptgruppe | Control outputs to change-speed- or reversing-gearings for conveying rotary motion [5] |
| F16H 63/02 | 1-Punkt Untergruppe | . Final output mechanisms therefor; Actuating means for the final output mechanisms [5] |
| F16H 63/04 | 2-Punkt Untergruppe | ... a single final output mechanism being moved by a single final actuating mechanism [5] |
| F16H 63/06 | 3-Punkt Untergruppe | ... the final output mechanism having an indefinite number of positions [5] |
| F16H 63/08 | 2-Punkt Untergruppe | ... Multiple final output mechanisms being moved by a single common final actuating mechanism [5] |
| 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] |
| F16H 63/12 | 4-Punkt Untergruppe | two or more ways of movement occurring simultaneously [5] |
| F16H 63/14 | 3-Punkt Untergruppe | ... the final output mechanisms being successively actuated by repeated movement of the final actuating mechanism [5] |

| Symbol | Typ | Titel |
|------------|---------------------|--|
| F16H 63/16 | 3-Punkt Untergruppe | ... the final output mechanisms being successively actuated by progressive movement of the final actuating mechanism [5] |
| F16H 63/18 | 4-Punkt Untergruppe | the final actuating mechanism comprising cams [5] |
| 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] |
| F16H 63/22 | 4-Punkt Untergruppe | the final output mechanisms being simultaneously moved by the final actuating mechanism [5] |
| F16H 63/24 | 2-Punkt Untergruppe | ... each of the final output mechanisms being moved by only one of the various final actuating mechanisms [5] |
| F16H 63/26 | 3-Punkt Untergruppe | ... some of the movements of the final output mechanisms being caused by another final output mechanism [5] |
| F16H 63/28 | 2-Punkt Untergruppe | ... two or more final actuating mechanisms moving the same final output mechanism [5] |
| F16H 63/30 | 2-Punkt Untergruppe | ... Constructional features of the final output mechanisms [5] |
| F16H 63/32 | 3-Punkt Untergruppe | ... Gear shifter yokes [5] |
| F16H 63/34 | 3-Punkt Untergruppe | ... Locking or disabling mechanisms [5] |
| F16H 63/36 | 4-Punkt Untergruppe | Interlocking devices [5] |
| F16H 63/38 | 3-Punkt Untergruppe | ... Detents [5] |
| F16H 63/40 | 1-Punkt Untergruppe | . comprising signals other than signals for actuating the final output mechanisms [5] |
| F16H 63/42 | 2-Punkt Untergruppe | .. Ratio indicator devices [5] |
| F16H 63/44 | 2-Punkt Untergruppe | .. Signals to the control unit of auxiliary gearing [5] |
| F16H 63/46 | 2-Punkt Untergruppe | .. Signals to a clutch outside the gearbox [5] |
| F16H 63/48 | 2-Punkt Untergruppe | .. Signals to a parking brake [5] |
| F16H 63/50 | 2-Punkt Untergruppe | .. Signals to an engine or motor [7] |