CONTROL DEVICES OR SYSTEMS INsofar AS CHARACTERISED BY MECHANICAL FEATURES ONLY ("Bowden" or like mechanisms F16C 1/10; gearings or mechanisms not peculiar to this purpose F16H; speed changing or reversing mechanisms for gearings conveying rotary motion F16H 59/00 - F16H 63/00)

NOTES
1. This subclass covers:
   • members of general applicability for mechanical control;
   • mechanical systems for moving members to one or more definite settings.
2. Systems peculiar to the control of particular machines or apparatus provided for in a single other class are classified in the relevant class for such machines or apparatus.

WARNING
In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Controlling members, e.g. knobs or handles; Arrangements of two or more controlling members (Arrangements of two or more controlling members with respect to one another (double foot control, e.g. for instruction vehicles G05G 1/34; mounting units comprising an assembly with two or more pedals G05G 1/36)

1/01 Arrangements of two or more controlling members with respect to one another (double foot control, e.g. for instruction vehicles G05G 1/34; mounting units comprising an assembly with two or more pedals G05G 1/36)

1/015 Arrangements for indicating the position of a controlling member (means for continuously detecting pedal position G05G 1/38; means for detecting position through tactile feedback G05G 5/03)

1/02 Controlling members for hand actuation by linear movement, e.g. push buttons

1/025 • (actuated by sliding movement)

1/04 Controlling members for hand actuation by pivoting movement, e.g. levers

1/06 • Details of their grip parts (G05G 1/10 takes precedence)

1/08 Controlling members for hand actuation by rotary movement, e.g. hand wheels

1/082 • [having safety devices, e.g. means for disengaging the control member from the actuated member]

1/085 • [Crank handles (G05G 1/08 takes precedence)]

1/087 • [retractable; Flush control knobs]

1/10 Details, e.g. of discs, knobs, wheels or handles

1/085 • [Comprising arrangements for illumination]

1/12 Means for securing the members on rotatable spindles or the like

1/30 Controlling members actuated by foot

1/305 • [Compound pedal co-operating with two or more controlled members]

1/32 • with means to prevent injury

1/323 • means disconnecting the connection between pedal and controlled member, e.g. by breaking or bending the connecting rod

1/327 • means disconnecting the pedal from its hinge or support, e.g. by breaking or bending the support

1/34 Double foot controls, e.g. for instruction vehicles

1/36 Mounting units comprising an assembly of two or more pedals, e.g. for facilitating mounting

1/38 • comprising means to continuously detect pedal position

1/40 • adjustable

1/405 • infinitely adjustable

1/42 • non-pivoting, e.g. sliding

1/44 • pivoting

1/445 • about a central fulcrum
5/00 Means for preventing, limiting or returning the movements of parts of a control mechanism, e.g. locking controlling member

5/01 (for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence))

5/02 Means preventing undesired movements of a controlling member which can be moved in two or more separate steps or ways, e.g. restricting to a stepwise movement or to a particular sequence of movements (G05G 5/28 takes precedence)

5/03 Means for enhancing the operator's awareness of arrival of the controlling member at a command or datum position; Providing feel, e.g. means for creating a counterforce (arrangements for indicating the position of the controlling member G05G 1/015)

5/04 Stops for limiting movement of members, e.g. adjustable stop (G05G 5/03, G05G 5/05, G05G 5/28 take precedence)

5/05 Means for returning or tending to return controlling members to an inoperative or neutral position, e.g. by providing return springs or resilient end-stops (G05G 5/28 takes precedence)

5/06 for holding members in one or a limited number of definite positions only ((G05G 5/005), G05G 5/03, G05G 5/05, G05G 5/28 take precedence)

5/065 (using a spring-loaded ball)

5/08 Interlocking of members, e.g. locking member in a particular position before or during the movement of another member

5/12 for holding members in an infinite number of positions, e.g. by a toothed quadrant (G05G 5/28 takes precedence)

5/14 by locking a member with respect to a fixed quadrant, rod, or the like

5/16 by friction

5/18 by positive interengagement, e.g. by a pawl

5/20 by locking a quadrant, rod, or the like carried by the member

5/22 by friction

5/24 by positive interengagement, e.g. by a pawl

5/26 by other means than a quadrant, rod, or the like

5/28 for preventing unauthorised access to the controlling member or its movement to a command position

7/00 Manually-actuated control mechanisms provided with one single controlling member co-operating with one single controlled member; Details thereof (controlling members G05G 1/00)

7/02 specifically characterised by special provisions for conveying or converting motion, or for acting at a distance

7/04 altering the ratio of motion or force between controlling member and controlled member as a function of the position of the controlling member

7/06 in which repeated movement of the controlling member produces increments of movement of the controlled member (G05G 7/08 takes precedence)

7/08 in which repeated movement of the controlling member moves the controlling member through a cycle of distinct positions

7/10 specially adapted for remote control (G05G 7/04 - G05G 7/08 take precedence)

7/12 specially adapted for actuating a member on a system in motion with respect to the controlling member, e.g. on a rotating shaft

7/14 characterised by means for delaying initiation of, or making more gradual throughout, the movement of the controlled member in response to a given input from the controlling member, e.g. by providing lost motion in the command train

7/16 Special provisions for reducing the effect of slight relative movement between supports of the mechanism, e.g. resulting from resilient mounting of a controlled mechanism

9/00 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously

9/02 the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only

9/04 in which movement in two or more ways can occur simultaneously

9/047 the controlling member being movable by hand about orthogonal axes, e.g. joysticks (for switches H01H 25/04)

2009/04703 (Mounting of controlling member)

2009/04707 (with ball joint)

2009/04711 (with substantially hemispherical bearing part forced into engagement, e.g. by a spring)

2009/04714 (with orthogonal axes)

2009/04718 (with cardan or gimbal type joint)

2009/04722 (elastic, e.g. flexible shaft)

2009/04725 (with coil spring)

2009/04729 (melastomeric)

2009/04733 (with a joint having a nutating disc, e.g. forced by a spring)

9/04737 (with six degrees of freedom)
Mechanical devices for initiating a movement automatically due to a specific cause

- 15/002. due to an abnormal functioning of the controlled apparatus (if speed is abnormal G05G 15/06)
- 15/005. due to a dangerous situation for the operator
- 15/007. due to an exerted pressure
with a control member moving selectively or simultaneously the controlled members

with a control member that is moved for preselection in another direction than for final actuating

without preselection or differentiation between selection and actuating, e.g. control members with a fix control sequence, after a determined advance cycle, in which the control device comprises cams actuating separately the controlled members

with plurality of control members, e.g. preselection and actuating members actuating several controlled members