

ECLA**EUROPEAN CLASSIFICATION****G05G**

CONTROL DEVICES OR SYSTEMS INsofar AS CHARACTERISED BY MECHANICAL FEATURES ONLY ("Bowden" or like mechanisms [F16C1/10](#); gearings or mechanisms not peculiar to this purpose [F16H](#); speed changing or reversing mechanisms for gearings conveying rotary motion [F16H59/00](#) to [F16H63/00](#)) [[C9610](#)]

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, for example:

A61G13/02	Controls for adjusting operating tables
A61G15/02	Controls for adjusting operating chairs
B25J	Manipulators, e.g. controls therefor
B60K26/00	Arrangement or mounting of propulsion-unit
control devices in vehicles	
B60T7/00	Vehicle brake-action initiating means
B62D33/073	Adaptations of control devices for movable
vehicle cabs	
B62K21/00	Cycle-steering devices
B62K23/00	Rider-operated controls specially adapted
for cycles	
B62L3/00	Brake-actuating mechanisms specially adapted
for cycles	
B63H25/02	Marine steering initiating means
B66B1/00	Controls for elevators
B66C13/18	Control systems or devices for cranes
B66C13/56	Arrangements of handles or pedals for crane
operation	
E02F9/20	Control devices for dredging or soil
shifting machines	
F16C3/28	Adjustable cranks or eccentrics
F16D43/00	Automatic clutches
[N: F16H59/00 to F16H63/00	Speed changing or reversing
mechanisms for gearings conveying rotary motion]	
F16K31/00 , F16K33/00	Controls for valves
F16P3/00	Safety devices acting in conjunction with
the control or operation of a machine	
F16P7/02	Stopping machines on occurrence of dangerous
conditions therein	
G02B21/32	Micromanipulators structurally combined with
microscopes	
G04B1/00 to G04B18/00	Driving mechanisms in clocks or
watches	
G06C	Digital computers in which all the
computation is effected mechanically	
G06F3/02	Manual computer input arrangements
G06K11/00	Converting a pattern of mechanical
parameters into electric signals	
G21C7/08	Displacement of solid control elements in
nuclear reactors	
H01H	Mechanisms for operating switch contacts

[H03J1/00](#)

Mechanical control of resonant circuits.

G05G1/00

Controlling members, e.g. knobs or handles; Assemblies or arrangements thereof; Indicating position of controlling members ([N: means for preventing, limiting or returning the movements of parts of a control mechanism [G05G5/00](#); providing feel, e.g. means to create a counterforce [G05G5/03](#); specially adapted for programme control [G05G21/00](#); vibration damping [G05G25/02](#);] joysticks [G05G9/04](#); steering wheels for motor vehicles [B62D](#)) [C0804]

Notes In this group the first place priority rule is applied, i.e. at each hierarchical level classification is made in the first appropriate place
[N0804]

- [G05G1/01](#)
 - . Arrangements of two or more controlling members with respect to one another (double foot control, e.g. for instruction vehicles [G05G1/34](#); mounting units comprising an assembly with two or more pedals [G05G1/36](#)) [N0804]
- [G05G1/015](#)
 - . Arrangements for indicating the position of a controlling member (means for continuously detecting pedal position [G05G1/38](#); means for detecting position through tactile feedback [G05G5/03](#)) [N0804]
- [G05G1/02](#)
 - . Controlling members for hand actuation by linear movement, e.g. push buttons [C0804]
- [G05G1/02S](#)
 - . . [N: actuated by sliding movement]
- [G05G1/04](#)
 - . Controlling members for hand actuation by pivoting movement, e.g. levers [C0804]
- [G05G1/06](#)
 - . . Details of their grip parts [N: ([G05G1/10](#) takes precedence)] [C0804]
- [G05G1/08](#)
 - . Controlling members for hand actuation by rotary movement, e.g. hand wheels [C0804]
- [G05G1/08A](#)
 - . . [N: having safety devices, e.g. means for disengaging the control member from the actuated member]
- [G05G1/08B](#)
 - . . [N: Crank handles ([G05G1/08A](#) takes precedence)]
- [G05G1/08R](#)
 - . . [N: retractable; Flush control knobs]
- [G05G1/10](#)
 - . . Details, e.g. of discs, knobs, wheels or handles [N: ([G05G1/08B](#) takes precedence)] [C0804]
- [G05G1/10B](#)
 - . . . [N: comprising arrangements for illumination]
- [G05G1/12](#)
 - . . . Means for securing the members on rotatable spindles or the like
- [G05G1/30](#)
 - . Controlling members actuated by foot [N0804]
- [G05G1/30B](#)
 - . . [N: Compound pedal co-operating with two or more controlled members] [N0804]
- [G05G1/32](#)
 - . . with means to prevent injury [N0804]
- [G05G1/323](#)
 - . . . means disconnecting the connection between pedal and controlled member, e.g. by breaking or bending the connecting rod [N0804]
- [G05G1/327](#)
 - . . . means disconnecting the pedal from its hinge or support, e.g. by breaking or bending the support [N0804]

- G05G1/34 . . Double foot controls, e.g. for instruction vehicles [N0804]
- G05G1/36 . . Mounting units comprising an assembly of two or more pedals, e.g. for facilitating mounting [N0804]
- G05G1/38 . . comprising means to continuously detect pedal position [N0804]
- G05G1/40 . . adjustable [N0804]
- G05G1/405 . . . infinitely adjustable [N0804]
- G05G1/42 . . non-pivoting, e.g. sliding [N0804]
- G05G1/44 . . pivoting [N0804]
- G05G1/445 . . . about a central fulcrum [N0804]
- G05G1/46 . . Means, e.g. links, for connecting the pedal to the controlled unit [N0804]
- G05G1/48 . . Non-slip pedal treads; Pedal extensions or attachments characterised by mechanical features only [N0804]
- G05G1/483 . . . Non-slip treads; Pedal extensions or attachments characterised by mechanical features only [N0804]
- G05G1/487 . . . Pedal extensions [N0804]
- G05G1/50 . . Manufacturing of pedals; Pedals characterised by the material used [N0804]
- G05G1/50B . . . [N: Controlling members for hand-actuation] [N0804]
- G05G1/50D . . . [N: Controlling members for foot-actuation] [N0804]
- G05G1/52 . Controlling members specially adapted for actuation by other parts of the human body than hand or foot [N0804]
- G05G1/54 . Controlling members specially adapted for actuation by auxiliary operating members or extensions; Operating members or extensions therefor (pedal extensions) [N0804]
- G05G1/56 . . Controlling members specially adapted for actuation by keys, screwdrivers or like tools [N0804]
- G05G1/58 . Rests or guides for relevant parts of the operator's body [N0804]
- G05G1/60 . . Foot rests or foot guides [N0804]
- G05G1/62 . . Arm rests [N0804]
- G05G3/00** **Controlled members; Assemblies or arrangements thereof** (interlocking of controlled members [G05G5/08](#))
- G05G5/00** **Means for preventing, limiting or returning the movements of parts of a control mechanism, e.g. locking controlling member** ([G05G17/00](#) takes precedence) [C9610]
- G05G5/00B . [N: for preventing unintentional use of a control mechanism ([G05G5/28](#) takes precedence)]
- G05G5/02 . 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 ([G05G5/28](#) takes precedence)
- G05G5/03 . 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 G05G1/015](#)) [C0811]

- G05G5/04 . Stops for limiting movement of members e.g. adjustable stop ([G05G5/03](#), [G05G5/05](#), [G05G5/28](#) take precedence)
- G05G5/05 . 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 ([G05G5/28](#) takes precedence)
- G05G5/06 . for holding members in one or a limited number of definite positions only ([N: [G05G5/00B](#)], [G05G5/03](#), [G05G5/05](#), [G05G5/28](#) take precedence)
- G05G5/06R . . [N: using a spring-loaded ball] [N9508]
- G05G5/08 . . Interlocking of members, e.g. locking member in a particular position before or during the movement of another member
- G05G5/12 . for holding members in an indefinite number of positions, e.g. by a toothed quadrant ([G05G5/28](#) takes precedence)
- G05G5/14 . . by locking a member with respect to a fixed quadrant, rod, or the like
- G05G5/16 . . . by friction
- G05G5/18 . . . by positive interengagement, e.g. by a pawl
- G05G5/20 . . by locking a quadrant, rod, or the like carried by the member
- G05G5/22 . . . by friction
- G05G5/24 . . . by positive interengagement, e.g. by a pawl
- G05G5/26 . . by other means than a quadrant, rod, or the like
- G05G5/28 . for preventing unauthorised access to the controlling member or its movement to a command position
- G05G7/00** **Manually-actuated control mechanisms provided with one single controlling member co-operating with one single controlled member; Details thereof**
(controlling members [G05G1/00](#))
- G05G7/02 . Characterised by special provisions for conveying or converting motion, or for acting at a distance
- G05G7/04 . . altering the ratio of motion or force between controlling member and controlled member as a function of the position of the controlling member
- G05G7/06 . . in which repeated movement of the controlling member produces increments of movement of the controlled member ([G05G7/08](#) takes precedence)
- G05G7/08 . . in which repeated movement of the controlling member moves the controlling member through a cycle of distinct positions
- G05G7/10 . . specially adapted for remote control ([G05G7/04](#) to [G05G7/08](#) take precedence)
- G05G7/12 . specially adapted for actuating a member on a system in motion with respect to the controlling member, e.g. on a rotating shaft [C9610]
- G05G7/14 . 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
- G05G7/16 . 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

G05G9/00	Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously
G05G9/02	. the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only
G05G9/04	. . in which movement in two or more ways can occur simultaneously
G05G9/047	. . . the controlling member being movable by hand about orthogonal axes, e.g. joysticks [N: (for switches H01H25/04)]
G05G9/047B [N: with six degrees of freedom]
G05G9/047S [N: the controlling member being the operating part of a switch arrangement] [N9804]
G05G9/047S2 [N: comprising additional control elements] [N9804]
G05G9/047S2B [N: for rotary control around the axis of the controlling member] [N9804]
G05G9/047S2C [N: for rectilinear control along the axis of the controlling member] [N9804]
G05G9/053 the controlling member comprising a ball [N: (graph-reading using a tracing ball or mouse G06K11/18)]
G05G9/06	. the controlled members being actuated successively by repeated movement of the controlling member
G05G9/08	. the controlled members being actuated successively by progressive movement of the controlling member [N: (Single lever throttle and clutch control for marine engines B63H21/22B)]
G05G9/08D	. . [N: the controlling member acting on a set of cams or slot cams] [C9610]
G05G9/10	. with preselection and subsequent movement of each controlled member by movement of the controlling member in two different ways, e.g. guided by a shift gate
G05G11/00	Manually-actuated control mechanisms provided with two or more controlling members co-operating with one single controlled member
G05G13/00	Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking G05G5/08)
G05G13/02	. with separate controlling members for preselection and shifting of controlled members
G05G15/00	Mechanical devices for initiating a movement automatically due to a specific cause [C9610]
G05G15/00A	. [N: due to an abnormal functioning of the controlled apparatus (if speed is abnormal G05G15/06)] [N9512]
G05G15/00D	. [N: due to a dangerous situation for the operator] [N9512]
G05G15/00P	. [N: due to an exerted pressure] [N9512]

- G05G15/02 . due to alteration of the sense of movement of a member
- G05G15/04 . due to distance or angle travelled by a member
- G05G15/06 . due to the speed of rotation or of bodily movement of a member, e.g. passing an upper or lower limit thereof ([speedometers G01P](#))
- G05G15/08 . due to the load or torque on a member, e.g. if exceeding a predetermined value thereof
- G05G17/00** **Mechanical devices for moving a member after being released; Trip or release mechanisms characterised thereby**
- G05G19/00** **Servo-mechanisms with follow-up action, e.g. occurring in steps**
- G05G21/00** **Mechanical apparatus for control of a series of operations, i.e. programme control, e.g. involving a set of cams ([G05G5/02](#) takes precedence)**
- G05G23/00** **Means for ensuring the correct positioning of parts of control mechanisms, e.g. for taking-up play**
- G05G23/02 . self-adjusting
- G05G25/00** **Other details or appurtenances of control mechanisms, e.g. supporting intermediate members elastically**
- G05G25/02 . Inhibiting the generation or transmission of noise [N: (suppression of noise or vibrations in selector apparatus for gearings [F16H59/02B](#))]
- G05G25/04 . Sealing against entry of dust, weather or the like [N: (in selector apparatus for gearings, [F16H59/02C](#))]