CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

G05 CONTROLLING; REGULATING (NOTES omitted)

G05GCONTROL DEVICES OR SYSTEMS INSOFAR AS CHARACTERISED BY
MECHANICAL FEATURES ONLY ("Bowden" or like mechanisms <u>F16C 1/10</u>; gearings or
mechanisms not peculiar to this purpose <u>F16H</u>; 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.

1/08

 1/00 Controlling members, e.g. knobs or handles; Assemblies or arrangements thereof; Indicating position of controlling members ({means for preventing, limiting or returning the movements of parts of a control mechanism <u>G05G 5/00</u>; providing feel, e.g. means to create a counterforce <u>G05G 5/03</u>; specially adapted for programme control <u>G05G 21/00</u>; vibration damping <u>G05G 25/02</u>;} joysticks <u>G05G 9/04</u>; steering wheels for motor vehicles <u>B62D</u>)

NOTE

In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

- 1/01 Arrangements of two or more controlling members with respect to one another (double foot control, e.g. for instruction vehicles <u>G05G 1/34</u>; mounting units comprising an assembly with two or more pedals <u>G05G 1/36</u>)
- 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 (<u>G05G 1/082</u> takes precedence)}
1/087	• {retractable; Flush control knobs}
1/10	• Details, e.g. of discs, knobs, wheels or handles {(<u>G05G 1/085</u> takes precedence)}
1/105	• • • {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

Controlling members for hand actuation by rotary

G05G

1/46	• Means, e.g. links, for connecting the pedal to the controlled unit
1/48	 Non-slip pedal treads; Pedal extensions or attachments characterised by mechanical features only
1/483	• • Non-slip treads; Pedal extensions or attachments characterised by mechanical features only
1/487	Pedal extensions
1/50	• • Manufacturing of pedals; Pedals characterised by the material used
1/503	• • • {Controlling members for hand-actuation}
1/506	• • • {Controlling members for foot-actuation}
1/52	• Controlling members specially adapted for actuation by other parts of the human body than hand or foot
1/54	• Controlling members specially adapted for actuation by auxiliary operating members or extensions; Operating members or extensions therefor (pedal extensions)
1/56	Controlling members specially adapted for actuation by keys, screwdrivers or like tools
1/58	• Rests or guides for relevant parts of the operator's body
1/60	Foot rests or foot guides
1/62	• • Arm rests
3/00	Controlled members; Assemblies or arrangements thereof (interlocking of controlled members <u>G05G 5/08</u>)
5/00	Means for preventing, limiting or returning the
	movements of parts of a control mechanism, e.g.
	locking controlling member (<u>G05G 17/00</u> takes
5/005	precedence)
5/005	precedence)(for preventing unintentional use of a control
5/005 5/02	precedence)
	 precedence) {for preventing unintentional use of a control mechanism (<u>G05G 5/28</u> takes precedence)}
	 precedence) (for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)) Means preventing undesired movements of a controlling member which can be moved in two
	 precedence) (for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)) Means preventing undesired movements of a
	 precedence) (for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)) 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
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5/02	 precedence) {for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)} 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) Means for enhancing the operator's awareness of
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5/02 5/03 5/04 5/05 5/06	 precedence) {for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)} 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) 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) Stops for limiting movement of members, e.g. adjustable stop (G05G 5/03, G05G 5/05, G05G 5/28 take precedence) 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) for holding members in one or a limited number of definite positions only ({G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/03,
5/02 5/03 5/04 5/05 5/06	 precedence) {for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)} 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) 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 <u>G05G 1/015</u>) Stops for limiting movement of members, e.g. adjustable stop (G05G 5/03, G05G 5/05, G05G 5/28 take precedence) 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) for holding members in one or a limited number of definite positions only ({G05G 5/005}, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/03, G05G 5/05, G05G 5/28 take precedence)
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5/02 5/03 5/04 5/05 5/06 5/065 5/08	 precedence) {for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)} 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) 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 <u>G05G 1/015</u>) Stops for limiting movement of members, e.g. adjustable stop (G05G 5/03, G05G 5/05, G05G 5/28 take precedence) 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 5/05, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/28 take precedence) Interlocking of members, e.g. locking member in a particular position before or during the movement of another member for holding members in an indefinite number of positions, e.g. by a toothed quadrant (G05G 5/28
5/02 5/03 5/04 5/05 5/06 5/065 5/08	 precedence) {for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)} 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) 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 <u>G05G 1/015</u>) Stops for limiting movement of members, e.g. adjustable stop (G05G 5/03, G05G 5/05, G05G 5/28 take precedence) 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 take precedence) for holding members in one or a limited number of definite positions only ({G05G 5/005}, G05G 5/03, G05G 5/0

5/14	•	kes precedence) by locking a memb quadrant, rod, or th
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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	
5/28	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 <u>G05G 1/00</u>)	
7/02	• 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	
7/06	 function of the position of the controlling member in which repeated movement of the controlling member produces increments of movement of the controlled member (COSC 7/08 takes precedence) 	
7/08	 controlled member (<u>G05G 7/08</u> takes precedence) 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 (<u>G05G 7/04</u> - <u>G05G 7/08</u> 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 	
7/16	 Nom the controlling memoer, e.g. by providing lost motion in the command train 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	
2700	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		
2009/04707		
2009/04711	· · · · · · · · · · · · · · · · · · ·	
2007/04/11	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	••••••••••••••••••••••••••••••••••••••	
2009/04723	 {with a joint having a nutating disc, e.g. forced by a spring} 	
9/04737	• • • { with six degrees of freedom }	

G05G

mechanical movement into electric 2009/04744 {Switches} 2009/04748 {Position sensor for rotary movement	0
potentiometer}	nent, e.g.
2009/04751 {Position sensor for linear mover	nent}
2009/04755 {Magnetic sensor, e.g. hall gener pick-up coil}	ator,
2009/04759 {Light-sensitive detector, e.g. photoelectric}	
2009/04762 {Force transducer, e.g. strain gau	
2009/04766 {providing feel, e.g. indexing mean to create counterforce}	s, means
2009/0477 {holding the member in a number definite positions}	r of
2009/04774 { with additional switches or sensors handle }	s on the
2009/04777 { with additional push or pull action handle }	
2009/04781 { with additional rotation of the commember}	trolling
NOTE	
Provisional indexing codes relate scheme of trilateral project T021	
9/04785 { the controlling member being the opart of a switch arrangement }	operating
9/04788 {comprising additional control el	ements}
9/04792 { for rotary control around the a controlling member}	axis of the
9/04796 {for rectilinear control along the controlling member}	
9/053 the controlling member comprising {(graph-reading using a tracing ball <u>G06F 3/033</u>)}	
9/06 • the controlled members being actuated suc by repeated movement of the controlling n	
9/08 . the controlled members being actuated suc by progressive movement of the controllin {(single lever throttle and clutch control fo engines <u>B63H 21/213</u>)}	g member
9/085 . {the controlling member acting on a set or slot cams}	of cams
9/10 • with preselection and subsequent movement controlled member by movement of the co member in two different ways, e.g. guided gate	ntrolling
11/00 Manually-actuated control mechanisms pr with two or more controlling members co- operating with one single controlled memb	
13/00 Manually-actuated control mechanisms pr with two or more controlling members and two or more controlled members (interlock G05G 5/08)	l also
13/02 • with separate controlling members for pres and shifting of controlled members	selection
15/00 Mechanical devices for initiating a movem automatically due to a specific cause	ent
15/002 . {due to an abnormal functioning of the cor apparatus (if speed is abnormal <u>G05G 15/C</u>	
 15/005 . {due to a dangerous situation for the opera 15/007 . {due to an excerted pressure} 	

15/02	• due to alteration of the sense of movement of a member
15/04 15/06	 due to distance or angle travelled by a member due to the speed of rotation or of bodily movement of a member, e.g. passing an upper or lower limit thereof (speedometers <u>G01P</u>)
15/08	• due to the load or torque on a member, e.g. if exceeding a predetermined value thereof
17/00	Mechanical devices for moving a member after being released; Trip or release mechanisms characterised thereby
19/00	Servo-mechanisms with follow-up action, e.g. occurring in steps
21/00	Mechanical apparatus for control of a series of operations, i.e. programme control, e.g. involving a set of cams (G05G 5/02 takes precedence)
23/00	Means for ensuring the correct positioning of parts of control mechanisms, e.g. for taking-up play
23/02	• self-adjusting
25/00	Other details or appurtenances of control mechanisms, e.g. supporting intermediate members elastically
25/02	• Inhibiting the generation or transmission of noise {(suppression of noise or vibrations in selector apparatus for gearings F16H 59/0208)}
25/04	 Sealing against entry of dust, weather or the like {(in selector apparatus for gearings, F16H 59/0213)}
2505/00	Means for preventing limiting or returning the
2505/00	Means for preventing, limiting or returning the movements of parts of a control mechanism, e.g. locking controlling member
2505/00 2700/00	movements of parts of a control mechanism, e.g.
	movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying
2700/00	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control
2700/00 2700/02	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range
2700/00 2700/02 2700/04	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range Control mechanisms for locking members in one or more positions
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2700/00 2700/02 2700/04 2700/06 2700/08	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range Control mechanisms for locking members in one or more positions Control mechanisms for locking or at least for blocking a member in one position out of a number of several positions Control mechanisms with one controlling member and one controlled member
2700/00 2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/12 2700/14	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range Control mechanisms for locking members in one or more positions Control mechanisms for locking or at least for blocking a member in one position out of a number of several positions Control mechanisms with one controlling member and one controlled member with one elastic element as essential part, e.g. elastic components as a part of an actuating mechanism
2700/00 2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/12 2700/14	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range Control mechanisms for locking members in one or more positions Control mechanisms for locking or at least for blocking a member in one position out of a number of several positions Control mechanisms with one controlling member and one controlled member with one elastic element as essential part, e.g. elastic components as a part of an actuating mechanism Mechanisms for conveying motion or signals for or in relation with control mechanisms
2700/00 2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/12 2700/14	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range Control mechanisms for locking members in one or more positions Control mechanisms for locking or at least for blocking a member in one position out of a number of several positions Control mechanisms with one controlling member and one controlled member with one elastic element as essential part, e.g. elastic components as a part of an actuating mechanism Mechanisms for conveying motion or signals for or in relation with control mechanisms Systems wherein the control element may be placed in two or more positions
2700/00 2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/12 2700/14 2700/16 2700/18 2700/18	 movements of parts of a control mechanism, e.g. locking controlling member Control mechanisms or elements therefor applying a mechanical movement Means for regulating or adjusting control mechanisms, e.g. devices for automatic adjustment Control mechanisms limiting amplitude or adjusting datum position Control mechanisms for holding members in a number of positions comprising a device to limit the control range Control mechanisms for locking members in one or more positions Control mechanisms for locking or at least for blocking a member in one position out of a number of several positions Control mechanisms with one controlling member and one controlled member with one elastic element as essential part, e.g. elastic components as a part of an actuating mechanism Mechanisms for conveying motion or signals for or in relation with control mechanisms Systems wherein the control element may be placed in two or more positions
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G05G

2700/26	• • with a control member moving selectively or
	simultaneously the controlled members
2700/28	• • • with a control member that is moved for preselection in another direction than for final actuating
2700/30	• • • 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
2700/32	• • with plurality of control members, e.g. preselection and actuating members actuating several controlled members