CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

G05 CONTROLLING; REGULATING

(NOTES omitted)

G05G CONTROL 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 <u>F16H 59/00</u> - <u>F16H 63/00</u>)

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; Assemblies or arrangements thereof; Indicating	1/08	Controlling members for hand actuation by rotary movement, e.g. hand wheels
	position of controlling members ({means for preventing, limiting or returning the movements of parts of a control mechanism G05G 5/00;	1/082	 {having safety devices, e.g. means for disengaging the control member from the actuated member}
	providing feel, e.g. means to create a counterforce	1/085	• • {Crank handles (<u>G05G 1/082</u> takes precedence)}
	G05G 5/03; specially adapted for programme control	1/087	• • {retractable; Flush control knobs}
	G05G 21/00; vibration damping G05G 25/02;} joysticks G05G 9/04; steering wheels for motor	1/10	• Details, e.g. of discs, knobs, wheels or handles {(G05G 1/085 takes precedence)}
	vehicles B62D)	1/105	• • {comprising arrangements for illumination}
	NOTE	1/12	. • Means for securing the members on rotatable spindles or the like
	In this group, the first place priority rule is applied,	1/30	Controlling members actuated by foot
	i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.	1/305	{Compound pedal co-operating with two or more controlled members}
		1/32	with means to prevent injury
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 	1/323	means disconnecting the connection between pedal and controlled member, e.g. by breaking or bending the connecting rod
1/015	comprising an assembly with two or more pedals G05G 1/36) Arrangements for indicating the position of a	1/327	• • • means disconnecting the pedal from its hinge or support, e.g. by breaking or bending the support
	controlling member (means for continuously	1/34	Double foot controls, e.g. for instruction vehicles
	detecting pedal position G05G 1/38; means	1/36	Mounting units comprising an assembly of two or
	for detecting position through tactile feedback	1,00	more pedals, e.g. for facilitating mounting
1/02	G05G 5/03) Controlling members for hand actuation by linear	1/38	comprising means to continuously detect pedal position
4 /0 5 =	movement, e.g. push buttons	1/40	• adjustable
1/025	{actuated by sliding movement}	1/405	infinitely adjustable
1/04	. Controlling members for hand actuation by pivoting	1/42	non-pivoting, e.g. sliding
1/06	movement, e.g. levers	1/44	• pivoting
1/06	• Details of their grip parts {(G05G 1/10 takes precedence)}	1/445	about a central fulcrum

1/46	Means, e.g. links, for connecting the pedal to the	5/16	by friction
4.440	controlled unit	5/18	• • • by positive interengagement, e.g. by a pawl
1/48	 Non-slip pedal treads; Pedal extensions or attachments characterised by mechanical features 	5/20	• by locking a quadrant, rod, or the like carried by
	only	5/22	the member by friction
1/483	Non-slip treads; Pedal extensions or		•
1/403	attachments characterised by mechanical	5/24	by positive interengagement, e.g. by a pawl
	features only	5/26	by other means than a quadrant, rod, or the like
1/487	• • • Pedal extensions	5/28	for preventing unauthorised access to the controlling
1/50	Manufacturing of pedals; Pedals characterised by		member or its movement to a command position
1/30	the material used	7/00	Manually-actuated control mechanisms provided
1/503	• • • {Controlling members for hand-actuation}		with one single controlling member co-operating
1/506	{Controlling members for foot-actuation} {Controlling members for foot-actuation}		with one single controlled member; Details thereof
1/500	Controlling members specially adapted for actuation		(controlling members G05G 1/00)
1/32	by other parts of the human body than hand or foot	7/02	. characterised by special provisions for conveying or
1/54	Controlling members specially adapted for actuation		converting motion, or for acting at a distance
1/34	by auxiliary operating members or extensions;	7/04	altering the ratio of motion or force between
	Operating members or extensions therefor (pedal		controlling member and controlled member as a
	extensions)		function of the position of the controlling member
1/56	Controlling members specially adapted for	7/06	in which repeated movement of the controlling
1,00	actuation by keys, screwdrivers or like tools		member produces increments of movement of the
1/58	• Rests or guides for relevant parts of the operator's		controlled member (<u>G05G 7/08</u> takes precedence)
-,	body	7/08	in which repeated movement of the controlling
1/60	Foot rests or foot guides		member moves the controlling member through a
1/62	. Arm rests		cycle of distinct positions
		7/10	specially adapted for remote control
3/00	Controlled members; Assemblies or arrangements		(<u>G05G 7/04</u> - <u>G05G 7/08</u> take precedence)
	thereof (interlocking of controlled members	7/12	specially adapted for actuating a member on a
	<u>G05G 5/08</u>)		system in motion with respect to the controlling
5/00	Means for preventing, limiting or returning the	7/14	member, e.g. on a rotating shaft
	movements of parts of a control mechanism, e.g.	7/14	 characterised by means for delaying initiation of, or making more gradual throughout, the movement of
	locking controlling member (G05G 17/00 takes		the controlled member in response to a given input
	precedence)		
			from the controlling member e.g. by providing lost
5/005	• {for preventing unintentional use of a control		from the controlling member, e.g. by providing lost motion in the command train
5/005	• {for preventing unintentional use of a control mechanism (G05G 5/28 takes precedence)}	7/16	motion in the command train
5/005 5/02	mechanism (<u>G05G 5/28</u> takes precedence)} Means preventing undesired movements of a	7/16	motion in the command train Special provisions for reducing the effect of
	 mechanism (G05G 5/28 takes precedence)} Means preventing undesired movements of a controlling member which can be moved in two 	7/16	motion in the command train • Special provisions for reducing the effect of slight relative movement between supports of the
	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	7/16	motion in the command train Special provisions for reducing the effect of
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5/02	 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 		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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g.
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5/02 5/03 5/04 5/05	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) 	9/00 9/02 9/04 9/047 2009/04703 2009/04707	 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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} {Mounting of controlling member} {with ball joint} {with substantially hemispherical bearing part forced into engagement, e.g. by a
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5/02 5/03 5/04 5/05 5/06 5/065	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) 	9/00 9/02 9/04 9/047 2009/04703 2009/04707 2009/04711	 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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} {Mounting of controlling member} {with substantially hemispherical bearing part forced into engagement, e.g. by a spring} {with orthogonal axes}
5/02 5/03 5/04 5/05 5/06 5/065	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) {using a spring-loaded ball} Interlocking of members, e.g. locking member 	9/00 9/02 9/04 9/047 2009/04703 2009/04707 2009/04711 2009/04714 2009/04718	 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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} {Mounting of controlling member} {with substantially hemispherical bearing part forced into engagement, e.g. by a spring} {with orthogonal axes} {with orthogonal axes} {with cardan or gimbal type joint}
5/02 5/03 5/04 5/05 5/06 5/065	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) {using a spring-loaded ball} Interlocking of members, e.g. locking member in a particular position before or during the 	9/00 9/02 9/04 9/047 2009/04703 2009/04707 2009/04711 2009/04714 2009/04718 2009/04722	 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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} {Mounting of controlling member} {with substantially hemispherical bearing part forced into engagement, e.g. by a spring} {with orthogonal axes} {with orthogonal axes} {with cardan or gimbal type joint} {elastic, e.g. flexible shaft}
5/02 5/03 5/04 5/05 5/06 5/065 5/08	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) {using a spring-loaded ball} Interlocking of members, e.g. locking member in a particular position before or during the movement of another member 	9/00 9/02 9/04 9/047 2009/04703 2009/04707 2009/04711 2009/04718 2009/04722 2009/04725	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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} Which is a spring for the substantially hemispherical bearing part forced into engagement, e.g. by a spring} With orthogonal axes With orthogonal axes With cardan or gimbal type joint} elastic, e.g. flexible shaft With coil spring}
5/02 5/03 5/04 5/05 5/06 5/065 5/08	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) {using a spring-loaded ball} 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 	9/00 9/02 9/04 9/047 2009/04703 2009/04707 2009/04711 2009/04718 2009/04722 2009/04725 2009/04729	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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} Khounting of controlling member} Khounting of controlling member With substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring he
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5/02 5/03 5/04 5/05 5/06 5/065 5/08	 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 5/005}, G05G 5/03, G05G 5/05, G05G 5/28 take precedence) lusing a spring-loaded ball} 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 takes precedence) 	9/00 9/02 9/04 9/047 2009/04703 2009/04707 2009/04711 2009/04714 2009/04718 2009/04722 2009/04725 2009/04733	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 Manually-actuated control mechanisms provided with one single controlling member co-operating with two or more controlled members, e.g. selectively, simultaneously the controlling member being movable in different independent ways, movement in each individual way actuating one controlled member only in which movement in two or more ways can occur simultaneously the controlling member being movable by hand about orthogonal axes, e.g. joysticks {(for switches H01H 25/04)} Khounting of controlling member} Khounting of controlling member With substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring} Khounting of controlling member with substantially hemispherical bearing part forced into engagement, e.g. by a spring he

2009/0474	• • • {characterised by means converting	15/02	• due to alteration of the sense of movement of a
	mechanical movement into electric signals}		member
	{Switches}	15/04	. due to distance or angle travelled by a member
	• • • • {Position sensor for rotary movement, e.g. potentiometer}	15/06	 due to the speed of rotation or of bodily movement of a member, e.g. passing an upper or lower limit
	• • • • {Position sensor for linear movement}	1.7./00	thereof (speedometers <u>G01P</u>)
2009/04755	• • • • {Magnetic sensor, e.g. hall generator, pick-up coil}	15/08	 due to the load or torque on a member, e.g. if exceeding a predetermined value thereof
2009/04759	• • • • {Light-sensitive detector, e.g. photoelectric}	17/00	Mechanical devices for moving a member after being released; Trip or release mechanisms
	• • • • {Force transducer, e.g. strain gauge}		characterised thereby
2009/04766	• • • {providing feel, e.g. indexing means, means to create counterforce}	19/00	Servo-mechanisms with follow-up action, e.g.
2009/0477	• • • • {holding the member in a number of definite positions}	21/00	occurring in steps
2009/04774	• • • { with additional switches or sensors on the handle }	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)
2009/04777	• • • { with additional push or pull action on the	22/00	
2009/04781	handle} { with additional rotation of the controlling	23/00	Means for ensuring the correct positioning of parts of control mechanisms, e.g. for taking-up play
	member}	23/02	 self-adjusting
	<u>NOTE</u>	25/00	Other details or appurtenances of control
	{Provisional indexing codes related to		mechanisms, e.g. supporting intermediate
	scheme of trilateral project T021.}	25/02	members elasticallyInhibiting the generation or transmission of noise
9/04785	• • • { the controlling member being the operating part of a switch arrangement }	20,02	{(suppression of noise or vibrations in selector apparatus for gearings F16H 59/0208)}
9/04788	• • • • {comprising additional control elements}	25/04	• Sealing against entry of dust, weather or
	• • • • • {for rotary control around the axis of the		the like {(in selector apparatus for gearings,
0/04504	controlling member}		<u>F16H 59/0213</u>)}
9/04/96	• • • • { for rectilinear control along the axis of the controlling member }	2505/00	Means for preventing, limiting or returning the
9/053	the controlling member comprising a ball		movements of parts of a control mechanism, e.g. locking controlling member
9/053		2700/00	locking controlling member
9/053 9/06	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively 	2700/00	
9/06	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively by repeated movement of the controlling member 	2700/00 2700/02	locking controlling member Control mechanisms or elements therefor applying a mechanical movement . Means for regulating or adjusting control
	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively by repeated movement of the controlling member . the controlled members being actuated successively 	2700/02	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
9/06	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively by repeated movement of the controlling member . the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine 		 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
9/06 9/08	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} 	2700/02	 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
9/06 9/08 9/085	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 	2700/02 2700/04	 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
9/06 9/08	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams 	2700/02 2700/04	 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
9/06 9/08 9/085	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 	2700/02 2700/04 2700/06 2700/08	 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
9/06 9/08 9/085 9/10	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 	2700/02 2700/04 2700/06	 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
9/06 9/08 9/085	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 	2700/02 2700/04 2700/06 2700/08	 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
9/06 9/08 9/085 9/10	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 Manually-actuated control mechanisms provided 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12	 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
9/06 9/08 9/085 9/10	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively by repeated movement of the controlling member . the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} . {the controlling member acting on a set of cams or slot cams} . 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided 	2700/02 2700/04 2700/06 2700/08 2700/10	 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
9/06 9/08 9/085 9/10	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12	 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
9/06 9/08 9/085 9/10 11/00	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively by repeated movement of the controlling member . the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} . {the controlling member acting on a set of cams or slot cams} . 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking G05G 5/08) 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/14 2700/16	 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
9/06 9/08 9/085 9/10	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/14	 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
9/06 9/08 9/085 9/10 11/00	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking G05G 5/08) with separate controlling members for preselection and shifting of controlled members Mechanical devices for initiating a movement 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/14 2700/16 2700/18 2700/20	 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 Control mechanisms not otherwise provided for
9/06 9/08 9/085 9/10 11/00 13/00	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking G05G 5/08) with separate controlling members for preselection and shifting of controlled members Mechanical devices for initiating a movement automatically due to a specific cause 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/14 2700/16 2700/18	 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 Control mechanisms not otherwise provided for Mechanisms linking plurality of controlling or
9/06 9/08 9/085 9/10 11/00 13/00	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} . the controlled members being actuated successively by repeated movement of the controlling member . the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} . {the controlling member acting on a set of cams or slot cams} . 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking G05G 5/08) . with separate controlling members for preselection and shifting of controlled members Mechanical devices for initiating a movement automatically due to a specific cause . {due to an abnormal functioning of the controlled 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/14 2700/16 2700/18 2700/20 2700/22	 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 Control mechanisms not otherwise provided for Mechanisms linking plurality of controlling or controlled members
9/06 9/08 9/085 9/10 11/00 13/00	 the controlling member comprising a ball {(graph-reading using a tracing ball or mouse G06F 3/033)} the controlled members being actuated successively by repeated movement of the controlling member the controlled members being actuated successively by progressive movement of the controlling member {(single lever throttle and clutch control for marine engines B63H 21/213)} {the controlling member acting on a set of cams or slot cams} 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 Manually-actuated control mechanisms provided with two or more controlling members cooperating with one single controlled member Manually-actuated control mechanisms provided with two or more controlling members and also two or more controlled members (interlocking G05G 5/08) with separate controlling members for preselection and shifting of controlled members Mechanical devices for initiating a movement automatically due to a specific cause 	2700/02 2700/04 2700/06 2700/08 2700/10 2700/12 2700/14 2700/16 2700/18 2700/20	 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 Control mechanisms not otherwise provided for Mechanisms linking plurality of controlling or

G05G

. . with a control member moving selectively or 2700/26 simultaneously the controlled members . . . with a control member that is moved for 2700/28 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