

Symbol	Typ	Titel
<b>G</b>	<b>Sektion</b>	<b>PHYSICS</b>
<b>G05</b>	<b>Klasse</b>	<b>CONTROLLING; REGULATING</b>
<b>G05F</b>	<b>Unterkategorie</b>	<b>SYSTEMS FOR REGULATING ELECTRIC OR MAGNETIC VARIABLES (regulating the timing or recurrence frequency of pulses in radar or radio navigation systems G01S; regulation of current or voltage, specially adapted for use in electronic time-pieces G04G 19/02; closed-loop systems for regulating non-electric variables by electric means G05D; regulating power supply of digital computers G06F 1/26; for obtaining desired operating characteristics of electromagnets with armatures H01F 7/18; regulating electric power distribution networks H02J; regulating the charging of batteries H02J 7/00; regulating of the output of static converters, e.g. switching regulators, H02M; regulation of the output of electric generators H02N, H02P 9/00; controlling transformers, reactors or choke coils H02P 13/00; regulating frequency response, gain, maximum output, amplitude or bandwidth of amplifiers H03G; regulating tuning of resonant circuits H03J; controlling generators of electronic oscillations or pulses H03L; regulating characteristics of transmission lines H04B; controlling electric light sources H05B 37/02, H05B 39/04, H05B 41/36; electric control of X-ray apparatus H05G 1/30) [4, 5]</b>
<b>G05F 1/00</b>	<b>Hauptgruppe</b>	<b>Automatic systems in which deviations of an electric quantity from one or more predetermined values are detected at the output of the system and fed back to a device within the system to restore the detected quantity to its predetermined value or values, i.e. retroactive systems [1, 2006.01]</b>
G05F 1/02	1-Punkt Untergruppe	. Regulating electric characteristics of arcs (arrangements for feeding or moving of electrodes for spot or seam welding or cutting B23K 9/12; arrangements for feeding electrodes for electric heating or electric lighting H05B 7/109, H05B 31/18; automatic control of power for heating by discharge H05B 7/148) [1, 2, 2006.01]
G05F 1/04	2-Punkt Untergruppe	... by means of saturable magnetic devices [1, 2006.01]
G05F 1/06	2-Punkt Untergruppe	... by means of discharge tubes [1, 2006.01]
G05F 1/08	2-Punkt Untergruppe	... by means of semiconductor devices [1, 2006.01]
G05F 1/10	1-Punkt Untergruppe	. Regulating voltage or current (G05F 1/02 takes precedence; for electric railways B60M 3/02) [1, 2006.01]
G05F 1/12	2-Punkt Untergruppe	... wherein the variable is actually regulated by the final control device is ac (G05F 1/625 takes precedence) [1, 4, 2006.01]
G05F 1/13	3-Punkt Untergruppe	... using ferroresonant transformers as final control devices [4, 2006.01]
G05F 1/14	3-Punkt Untergruppe	... using tap transformers or tap changing inductors as final control devices [1, 4, 2006.01]
G05F 1/147	4-Punkt Untergruppe	.... with motor driven tap switch [4, 2006.01]
G05F 1/153	5-Punkt Untergruppe	..... controlled by discharge tubes or semiconductor devices [4, 2006.01]
G05F 1/16	4-Punkt Untergruppe	..... combined with discharge tubes or semiconductor devices [1, 2006.01]
G05F 1/20	5-Punkt Untergruppe	..... semiconductor devices only [1, 2006.01]
G05F 1/22	4-Punkt Untergruppe	..... combined with separate magnetic control devices having a controllable degree of saturation [1, 2006.01]
G05F 1/24	3-Punkt Untergruppe	... using bucking or boosting transformers as final control devices [1, 2006.01]
G05F 1/247	4-Punkt Untergruppe	.... with motor in control circuit [4, 2006.01]
G05F 1/253	4-Punkt Untergruppe	.... the transformers including plural windings in series between source and load (G05F 1/247 takes precedence) [4, 2006.01]

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G05F 1/26	4-Punkt Untergruppe	.... combined with discharge tubes or semiconductor devices [1, 2006.01]
G05F 1/30	5-Punkt Untergruppe	..... semiconductor devices only [1, 2006.01]
G05F 1/32	3-Punkt Untergruppe	... using magnetic devices having a controllable degree of saturation as final control devices [1, 2006.01]
G05F 1/325	4-Punkt Untergruppe	.... with specific core structure, e.g. gap, aperture, slot, permanent magnet [4, 2006.01]
G05F 1/33	4-Punkt Untergruppe	.... with plural windings through which current to be controlled is conducted [4, 2006.01]
G05F 1/335	5-Punkt Untergruppe	..... on different cores [4, 2006.01]
G05F 1/34	4-Punkt Untergruppe	.... combined with discharge tubes or semiconductor devices [1, 2006.01]
G05F 1/38	5-Punkt Untergruppe	..... semiconductor devices only [1, 2006.01]
G05F 1/40	3-Punkt Untergruppe	... using discharge tubes or semiconductor devices as final control devices [1, 2006.01]
G05F 1/42	4-Punkt Untergruppe	.... discharge tubes only [1, 2006.01]
G05F 1/44	4-Punkt Untergruppe	.... semiconductor devices only [1, 2006.01]
G05F 1/445	5-Punkt Untergruppe	..... being transistors in series with the load [3, 2006.01]
G05F 1/45	5-Punkt Untergruppe	..... being controlled rectifiers in series with the load [3, 2006.01]
G05F 1/455	6-Punkt Untergruppe	..... with phase control [3, 2006.01]
G05F 1/46	2-Punkt Untergruppe	.. wherein the variable actually regulated by the final control device is dc (G05F 1/625 takes precedence) [1, 4, 2006.01]
G05F 1/52	3-Punkt Untergruppe	... using discharge tubes in series with the load as final control devices [1, 2006.01]
G05F 1/54	4-Punkt Untergruppe	.... additionally controlled by the unregulated supply [1, 2006.01]
G05F 1/56	3-Punkt Untergruppe	... using semiconductor devices in series with the load as final control devices [1, 2006.01]
G05F 1/563	4-Punkt Untergruppe	.... including two stages of regulation, at least one of which is output level responsive, e.g. coarse and fine regulation [4, 2006.01]
G05F 1/565	4-Punkt Untergruppe	.... sensing a condition of the system or its load in addition to means responsive to deviations in the output of the system, e.g. current, voltage, power factor (G05F 1/563 takes precedence) [4, 2006.01]
G05F 1/567	5-Punkt Untergruppe	..... for temperature compensation [4, 2006.01]
G05F 1/569	5-Punkt Untergruppe	..... for protection [4, 2006.01]
G05F 1/571	6-Punkt Untergruppe	..... with overvoltage detector [4, 2006.01]
G05F 1/573	6-Punkt Untergruppe	..... with overcurrent detector [4, 2006.01]
G05F 1/575	4-Punkt Untergruppe	.... characterised by the feedback circuit [4, 2006.01]
G05F 1/577	4-Punkt Untergruppe	.... for plural loads [4, 2006.01]
G05F 1/585	5-Punkt Untergruppe	..... providing voltages of opposite polarities [4, 2006.01]
G05F 1/59	4-Punkt Untergruppe	.... including plural semiconductor devices as final control devices for a single load [4, 2006.01]
G05F 1/595	5-Punkt Untergruppe	..... semiconductor devices connected in series [4, 2006.01]
G05F 1/607	3-Punkt Untergruppe	... using discharge tubes in parallel with the load as final control devices [3, 2006.01]

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G05F 1/61	4-Punkt Untergruppe	.... including two stages of regulation, at least one of which is output level responsive [4, 2006.01]
G05F 1/613	3-Punkt Untergruppe	.... using semiconductor devices in parallel with the load as final control devices [3, 2006.01]
G05F 1/614	4-Punkt Untergruppe	.... including two stages of regulation, at least one of which is output level responsive [4, 2006.01]
G05F 1/618	3-Punkt Untergruppe	.... using semiconductor devices in series and in parallel with the load as final control devices [4, 2006.01]
G05F 1/62	3-Punkt Untergruppe	.... using bucking or boosting dc sources [1, 2006.01]
G05F 1/625	2-Punkt Untergruppe	... wherein it is irrelevant whether the variable actually regulated is ac or dc [4, 2006.01]
G05F 1/63	3-Punkt Untergruppe	... using variable impedances in series with the load as final control devices [4, 2006.01]
G05F 1/635	4-Punkt Untergruppe	.... being Hall effect devices, magnetoresistors or thermistors [4, 2006.01]
G05F 1/644	4-Punkt Untergruppe	.... being pressure-sensitive resistors [4, 2006.01]
G05F 1/648	4-Punkt Untergruppe	.... being plural resistors among which a selection is made [4, 2006.01]
G05F 1/652	3-Punkt Untergruppe	... using variable impedances in parallel with the load as final control devices [4, 2006.01]
G05F 1/656	3-Punkt Untergruppe	... using variable impedances in series and in parallel with the load as final control devices [4, 2006.01]
G05F 1/66	1-Punkt Untergruppe	. Regulating electric power [1, 2006.01]
G05F 1/67	2-Punkt Untergruppe	... to the maximum power available from a generator, e.g. from solar cell [4, 2006.01]
G05F 1/70	1-Punkt Untergruppe	. Regulating power factor; Regulating reactive current or power [3, 2006.01]
<b>G05F 3/00</b>	<b>Hauptgruppe</b>	<b>Non-retroactive systems for regulating electric variables by using an uncontrolled element, or an uncontrolled combination of elements, such element or such combination having self-regulating properties [1, 2006.01]</b>
G05F 3/02	1-Punkt Untergruppe	. Regulating voltage or current [1, 2006.01]
G05F 3/04	2-Punkt Untergruppe	... wherein the variable is ac [1, 2006.01]
G05F 3/06	3-Punkt Untergruppe	... using combinations of saturated and unsaturated inductive devices, e.g. combined with resonant circuit [1, 2006.01]
G05F 3/08	2-Punkt Untergruppe	... wherein the variable is dc [1, 2006.01]
G05F 3/10	3-Punkt Untergruppe	... using uncontrolled devices with non-linear characteristics [1, 4, 2006.01]
G05F 3/12	4-Punkt Untergruppe	.... being glow discharge tubes [1, 2006.01]
G05F 3/16	4-Punkt Untergruppe	.... being semiconductor devices [3, 2006.01]
G05F 3/18	5-Punkt Untergruppe	..... using Zener diodes [3, 2006.01]
G05F 3/20	5-Punkt Untergruppe	..... using diode-transistor combinations (G05F 3/18 takes precedence) [3, 2006.01]
G05F 3/22	6-Punkt Untergruppe	..... wherein the transistors are of the bipolar type only (G05F 3/26, G05F 3/30 take precedence) [4, 2006.01]
G05F 3/24	6-Punkt Untergruppe	..... wherein the transistors are of the field-effect type only (G05F 3/26, G05F 3/30 take precedence) [4, 2006.01]
G05F 3/26	6-Punkt Untergruppe	..... Current mirrors [4, 2006.01]
G05F 3/28	7-Punkt Untergruppe	..... combined with a non-linear current amplifier [4, 2006.01]

Symbol	Typ	Titel
G05F 3/30	6-Punkt Untergruppe	. . . . . Regulators using the difference between the base-emitter voltages of two bipolar transistors operating at different current densities (G05F 3/26 takes precedence) [4, 2006.01]
<b>G05F 5/00</b>	<b>Hauptgruppe</b>	<b>Systems for regulating electric variables by detecting deviations in the electric input to the system and thereby controlling a device within the system to obtain a regulated output [1, 2006.01]</b>
G05F 5/02	1-Punkt Untergruppe	. Phase controlled switching using electronic tubes or three or more terminal semiconductive devices [4, 2006.01]
G05F 5/04	1-Punkt Untergruppe	. using a transformer or inductor as the final control device [4, 2006.01]
G05F 5/06	2-Punkt Untergruppe	.. saturable [4, 2006.01]
G05F 5/08	1-Punkt Untergruppe	. using a linearly acting final control device [4, 2006.01]
<b>G05F 7/00</b>	<b>Hauptgruppe</b>	<b>Regulating magnetic variables (details of apparatus for measuring magnetic variables involving magnetic resonance G01R 33/28) [1, 5, 2006.01]</b>