G05F

SYSTEMS FOR REGULATING ELECTRIC OR MAGNETIC VARIABLES

Definition statement

This subclass/group covers:

Systems only;

Use of hydraulics, pneumatic, mechanical and electrical motors for varying electric characteristics of devices which restore the quantity regulated;

The combination of static converters and current or voltage regulators, if the invention resides in the combination.

References relevant to classification in this subclass

This subclass/group does not cover:

Regulating the timing or recurrence frequency of pulses in radar or radio navigation systems	G01S
Closed-loop systems for regulating non-electric variables by electric means	G05D
Controlling transformers, reactors or choke coils	H02P 13/00
Electric control of X-ray apparatus	H05G 1/30
Regulating characteristics of transmission lines	H04B
Regulating electric power distribution networks	H02J
Regulating frequency response, gain, maximum output, amplitude or bandwidth of amplifiers	H03G
Regulating power supply of digital computers	G06F 1/26
Regulating the charging of batteries	H02J 7/00
Regulating tuning of resonant circuits	H03J

Regulation of the output of electric generators	H02N, H02P 9/00, H03L
Regulation of the output of static converters, e.g. switching regulators	H02M

G05F 1/00

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

G05F 1/02

Regulating electric characteristics of arcs (arrangements for feeding electrodes B23K9/12, H05B7/109, H05B31/18; automatic control of power for heating by discharge H05B7/148)

References relevant to classification in this group

This subclass/group does not cover:

Arrangements for feeding electrodes	B23K 9/12 H05B 7/109 H05B 31/18
Automatic control of power for heating by discharge	H05B 7/148

G05F 1/10

Regulating voltage or current (G05F1/02 takes precedence; for electric railways B60M3/02)

References relevant to classification in this group

This subclass/group does not cover:

Regulating voltage or current for electric railways	B60M 3/02

G05F 1/46

Wherein the variable actually regulated by the final control device is dc (G05F1/625 takes precedence)

References relevant to classification in this group

This subclass/group does not cover:

Voltage to current converters for amplifiers	H03F

G05F 3/00

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. [N: (current generators specially designed for use in phase-locked loops H03L7/0891)]

References relevant to classification in this group

This subclass/group does not cover:

Current generators specially designed for use in phase-locked loops	H03L 7/0891

G05F 3/08

Regulating voltage or current wherein the variable is dc

References relevant to classification in this group

This subclass/group does not cover:

Regulation using uncontrolled devices with non-linear characteristics	G05F 3/10
Substrate bias-voltage generators for static stores	G11C 5/146

G05F 5/00

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

G05F 7/00

Regulating magnetic variables (details of apparatus for measuring magnetic variables involving magnetic resonance G01R33/28)

References relevant to classification in this group

This subclass/group does not cover:

Details of apparatus for measuring magnetic variables involving magnetic resonance	G01R 33/28