

G05F**SYSTEMS FOR REGULATING ELECTRIC OR MAGNETIC VARIABLES****Definition statement**

This place 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**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Regulation of current or voltage specially adapted for use in electronic time-pieces	G04G 19/02
Regulating power supply of digital computers	G06F 1/26
Circuit arrangements for obtaining desired operating characteristics of electromagnets with armatures	H01F 7/18
Electric power networks; Circuit arrangements or systems for supplying or distributing electric power; Systems for storing electric energy	H02J
Regulating the charging of batteries	H02J 7/00
Regulation 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 39/04 , H05B 41/36 , H05B 45/10 , H05B 45/20 , H05B 47/10
Electric control of X-ray apparatus	H05G 1/30

Informative references

Attention is drawn to the following places, which may be of interest for search:

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

G05F 1/02**Regulating electric characteristics of arcs****References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Automatic control of power for heating by discharge	H05B 7/148
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Informative references

Attention is drawn to the following places, which may be of interest for search:

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

G05F 1/10**Regulating voltage or current ([G05F 1/02](#) takes precedence)****References****Limiting references**

This place does not cover:

Regulating electric characteristics of arcs	G05F 1/02
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Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Regulating voltage or current in electric railways	B60M 3/02
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G05F 1/46**wherein the variable actually regulated by the final control device is DC ([G05F 1/625](#) takes precedence)****References****Limiting references**

This place does not cover:

Voltage to current converters for amplifiers	H03F
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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 {(current generators specially designed for use in phase-locked loops [H03L 7/0891](#))}

References**Limiting references**

This place does not cover:

Current generators specially designed for use in phase-locked loops	H03L 7/0891
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G05F 3/08

wherein the variable is DC

References**Limiting references**

This place 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 7/00

Regulating magnetic variables

References**Informative references**

Attention is drawn to the following places, which may be of interest for search:

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