

G05F

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](#); 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](#); 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](#))

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

Limiting references

This place 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
Regulating power supply of digital computers	G06F 1/26
Regulating electric power distribution networks	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 , H03L
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
Regulating characteristics of transmission lines	H04B
Electric control of X-ray apparatus	H05G 1/30

G05F 1/02

Regulating electric characteristics of arcs (arrangements for feeding electrodes [B23K 9/12](#), [H05B 7/109](#), [H05B 31/18](#); automatic control of power for heating by discharge [H05B 7/148](#))

References

Limiting references

This place 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 ([G05F 1/02](#) takes precedence; for electric railways [B60M 3/02](#))

References

Limiting references

This place does not cover:

Regulating voltage or current for 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 (details of apparatus for measuring magnetic variables involving magnetic resonance [G01R 33/28](#))

References***Limiting references***

This place does not cover:

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