

## G05F

### SYSTEMS FOR REGULATING ELECTRIC OR MAGNETIC VARIABLES

(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](#))

#### 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	<a href="#">G01S</a>
Closed-loop systems for regulating non-electric variables by electric means	<a href="#">G05D</a>
Regulating power supply of digital computers	<a href="#">G06F 1/26</a>
Regulating electric power distribution networks	<a href="#">H02J</a>
Regulating the charging of batteries	<a href="#">H02J 7/00</a>
Regulation of the output of static converters, e.g. switching regulators	<a href="#">H02M</a>
Regulation of the output of electric generators	<a href="#">H02N</a> , <a href="#">H02P 9/00</a> , <a href="#">H03L</a>
Controlling transformers, reactors or choke coils	<a href="#">H02P 13/00</a>
Regulating frequency response, gain, maximum output, amplitude or bandwidth of amplifiers	<a href="#">H03G</a>
Regulating tuning of resonant circuits	<a href="#">H03J</a>
Regulating characteristics of transmission lines	<a href="#">H04B</a>
Electric control of X-ray apparatus	<a href="#">H05G 1/30</a>

## 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	<a href="#">B23K 9/12</a> , <a href="#">H05B 7/109</a> , <a href="#">H05B 31/18</a>
Automatic control of power for heating by discharge	<a href="#">H05B 7/148</a>

## 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	<a href="#">B60M 3/02</a>
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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	<a href="#">H03F</a>
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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	<a href="#">H03L 7/0891</a>
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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	<a href="#">G05F 3/10</a>
Substrate bias-voltage generators for static stores	<a href="#">G11C 5/146</a>

**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	<a href="#">G01R 33/28</a>
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