

G04F

TIME-INTERVAL MEASURING (measuring pulse characteristics [G01R](#), e.g. [G01R 29/02](#); in radar or like systems [G01S](#))

Definition statement

This place covers:

- apparatus for measuring-off predetermined time intervals;
- apparatus for producing such intervals as timing standards, e.g. metronomes;
- apparatus for measuring unknown intervals, e.g. precision systems for short-time-interval measurement.

References

Limiting references

This place does not cover:

Measuring pulse characteristics	G01R , e.g. G01R 29/02
Measuring in radar or like systems	G01S

Informative references

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

Time fuzes	F24C 9/00
Masers	H01S 1/00
Generation of oscillations	H03B
Generation or counting of pulses or frequency dividing	H03K
Analogue/digital conversion in general	H03M 1/00

G04F 1/00

Apparatus which can be set and started to measure-off predetermined or adjustably-fixed time intervals without driving mechanisms, e.g. egg timers

References

Informative references

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

Time or time-programme switches which automatically terminate their operations after the programme is completed	H01H 43/00
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G04F 3/00

Apparatus which can be set and started to measure-off predetermined or adjustably-fixed time intervals with driving mechanisms, e.g. dosimeters with clockwork

References**Informative references**

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

Time or time-programme switches which automatically terminate their operations after the programme is completed	H01H 43/00
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G04F 5/00

Apparatus for producing preselected time intervals for use as timing standards (generating clock signals for electric digital computers [G06F 1/04](#))

References**Limiting references**

This place does not cover:

Generating clock signals for electric digital computers	G06F 1/04
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Informative references

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

Automatic frequency control or stabilisation of generators in general	H03L
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G04F 5/02**Metronomes****References****Informative references**

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

Periodical acoustic signalling arrangements	G04B 21/005
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G04F 5/063**{Constructional details}****References****Informative references**

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

Details of resonators in general	H03H 9/02
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G04F 5/066**{Trimmer condensators}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Capacitors in general	H01G
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G04F 7/10**Means used apart from the time-piece for starting or stopping same****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Means used apart from the time-piece for starting or stopping same	G04F 8/08
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G04F 10/00**Apparatus for measuring unknown time intervals by electric means****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Arrangements for measuring frequencies	G01R 23/00
Arrangements for measuring phase angle between a voltage and a current or between voltages or currents	G01R 25/00
Radar systems, analogous systems	G01S 7/00
Timing devices for clocks or watches for comparing the rate of the oscillating member with a standard	G04D 7/12

G04F 13/00**Apparatus for measuring unknown time intervals by means not provided for in groups [G04F 5/00](#) - [G04F 10/00](#)****References****References out of a residual place***Examples of places in relation to which this place is residual:*

Apparatus for producing preselected time intervals for use as timing standards	G04F 5/00
Apparatus for measuring unknown time intervals by mechanical means	G04F 7/00

Apparatus for measuring unknown time intervals by electromechanical means	G04F 8/00
Apparatus for measuring unknown time intervals by electric means	G04F 10/00

G04F 13/026

{Measuring duration of ultra-short light pulses, e.g. in the pico-second range; particular detecting devices therefor (photometry, radiation pyrometry [G01J 1/00](#), [G01J 5/00](#); non-linear optics [G02F 1/35](#))}

References

Limiting references

This place does not cover:

Photometry	G01J 1/00
Radiation pyrometry	G01J 5/00
Non-linear optics	G02F 1/35

Informative references

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

Monitoring arrangements for lasers in general	H01S 3/0014
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