SECTION G — PHYSICS

G04 **HOROLOGY**

G04F TIME-INTERVAL MEASURING (measuring pulse characteristics G01R, e.g. G01R 29/02; in radar or like systems G01S) [2]

Note(s) [2]

This subclass covers:

apparatus for measuring-off predetermined time intervals;

• using electric or electronic resonators (G04F 5/14

takes precedence) [2, 2006.01]

- 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.

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•	apparatus for measuring unknown intervals, e.g. precision sy	stems for sho	ort-time-interval measurement.
Subclass	<u>index</u>		
Produ	RING PREDETERMINED TIME INTERVALS ucing time standardsuratus: without driving mechanisms; with driving mechanisms		5/00 1/00, 3/00
	RING UNKNOWN TIME INTERVALS nanically; electromechanically; electrically; otherwise		7/00, 8/00, 10/00, 13/00
1/00	Apparatus which can be set and started to measure-	5/12	• using fluidic devices [2, 2006.01]
	off predetermined or adjustably-fixed time intervals without driving mechanisms, e.g. egg timers [1, 2006.01]	5/14 5/16	using atomic clocks [2, 2006.01]using pulses produced by radio-isotopes [2, 2006.01]
1/02	 by consuming prefixed quantities of materials, e.g. by burning candle [1, 2006.01] 	7/00	Apparatus for measuring unknown time intervals by non-electric means (using fluidic means
1/04	 by movement or acceleration due to gravity [1, 2006.01] 	7/02	G04F 13/06) [1, 2, 2006.01] • by measuring the distance of fall or the final velocity
1/06	by flowing-away of a prefixed quantity of fine- granular or liquid materials, e.g. sand-glass, water-	7/04	of a falling body [1, 2006.01] • using a mechanical oscillator [1, 2, 2006.01]
1 /00	clock [1, 2006.01]	7/04	 running only during the time interval to be
1/08	 by a body falling a prefixed distance in air or in a viscous material [1, 2006.01] 	7/08	 measured, e.g. stop-watch [1, 2006.01] Watches or clocks with stop devices, e.g. chronograph [1, 2006.01]
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	7/10	 Means used apart from the time-piece for starting or stopping same [1, 2, 2006.01]
3/02	clockwork [1, 2006.01]with mechanical driving mechanisms [1, 2006.01]	8/00	Apparatus for measuring unknown time intervals by electromechanical means [2, 2006.01]
3/04	 Additional arrangements in connection with ordinary non-electric clocks for this 	8/02	• using an electromechanical oscillator [2, 2006.01]
	purpose [1, 2006.01]	8/04 8/06	using a piezoelectric oscillator [2, 2006.01]using a magnetostrictive oscillator [2, 2006.01]
3/06 3/08	 with electric driving mechanisms [1, 2006.01] Additional arrangements in connection with ordinary electric clocks for this 	8/08	 Means used apart from the time-piece for starting or stopping same [2, 2006.01]
	purpose [1, 2006.01]	10/00	Apparatus for measuring unknown time intervals by electric means [2, 2006.01]
5/00	Apparatus for producing preselected time intervals for use as timing standards (generating clock signals for electric digital computers G06F 1/04) [1, 2006.01]	10/02	 using oscillators with passive electric resonator, e.g. lumped LC [2, 2006.01]
5/02	 Metronomes [1, 2006.01] 	10/04	by counting pulses or half-cycles of an AC 12, 2006 011.
5/04	using oscillators with electromechanical	10/06	AC [2, 2006.01] • by measuring phase [2, 2006.01]
	resonators [2, 2006.01]	10/08	 using pulses produced by radio-isotopes [2, 2006.01]
5/06	• • using piezoelectric resonators [2, 2006.01]	10/10	by measuring electric or magnetic quantities
5/08 5/10	 using magnetostrictive resonators [2, 2006.01] using electric or electronic resonators (G04F 5/14 		changing in proportion to time [2, 2006.01]

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13/00 Apparatus for measuring unknown time intervals by means not provided for in groups G04F 5/00-G04F 10/00 [2, 2006.01]

13/02 • using optical means **[2, 2006.01]**

13/04 • using electrochemical means **[2, 2006.01]**

13/06 • using fluidic means **[2, 2006.01]**