CPC COOPERATIVE PATENT CLASSIFICATION

\mathbf{G} **PHYSICS**

(NOTES omitted)

INSTRUMENTS

G06 COMPUTING; CALCULATING OR COUNTING

(NOTES omitted)

G06GANALOGUE COMPUTERS (analogue optical computing devices G06E 3/00)

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Hand manipulated computing devices (planimeters G01B 5/26)	3/00	Devices in which the computing operation is performed mechanically (G06G 1/00 takes
1/0005	• {characterised by a specific application}		precedence)
1/0003	 (characterised by a specific application) (for medical purposes, for biological purposes) 	3/02	 for performing additions or subtractions, e.g.
1/0015	 for incured purposes, for bloodgrear purposes; for computing periodic phenomena, e.g. fertility 	3/02	differential gearing
1/0013	periods}	3/04	• for performing multiplications or divisions, e.g.
1/0021	• • {for civil engineering}		variable-ratio gearing
1/0026	• {for machining}	3/06	 for evaluating functions by using cams and cam
1/0031	• · {for hydraulics}		followers
1/0036	• • {for electricity, for electronics}	3/08	. for integrating or differentiating, e.g. by wheel and
1/0042	• • {for optics, for photography}		disc
1/0047	• • {for printing}	3/10	 for simulating specific processes, systems, or
1/0052	• • {for air navigation or sea navigation}		devices
1/0057	• • {for gun laying, for bomb aiming}	5/00	Devices in which the computing operation is
1/0063	• • {for calculating fuel consumption}		performed by means of fluid-pressure elements
1/0068	{for conversion from one unit system to another,		(such elements in general <u>F15C</u>)
	e.g. from British to metric}	7/00	Destruction black the control of the control of
1/0073	• • {for commerce, bank or invoicing}	7/00	Devices in which the computing operation is performed by varying electric or magnetic
1/0078	• • • {for calculating interests}		quantities
1/0084	• • • {for calculating earned incomes}	7/02	 Details not covered by <u>G06G 7/04</u> - <u>G06G 7/10</u>,
1/0089	• • • {for calculating taxes}	7702	{e.g. monitoring, construction, maintenance}
1/0094	• • {for trigonometric computations}	7/04	• Input or output devices (graph readers G06K 11/00;
1/02	 Devices in which computing is effected by adding, 		function plotters, co-ordinate plotters G06K 15/22,
	subtracting, or comparing lengths of parallel or		$\{60963/001\}$
	concentric graduated scales {(G06G 1/0005 takes	7/06	 Programming arrangements, e.g. plugboard for
1/005	precedence)}		interconnecting functional units of the computer;
1/025	• • {decimal point positioning devices}		Digital programming {(hybrid computers <u>G06J</u>)}
1/04	• characterised by construction (<u>G06G 1/10</u> takes	7/10	 Power supply arrangements
1/045	precedence)	7/12	 Arrangements for performing computing operations,
1/045	• • { with scales borne by bands }		e.g. operational amplifiers (amplifiers in general
1/06	• • • with rectilinear scales, e.g. slide rule		<u>H03F</u> ; {adapted for telemeasuring or for indicating
1/065 1/08	{construction of the cursor} with circular or helical scales		or recording the results of the measurement <u>G01D 1/10</u> , <u>G01D 1/16</u> ; for fuzzy computing
			G06N 7/02})
1/085 1/10	{borne by a cylinder}	7/122	• • for optimisation, e.g. least square fitting, linear
	characterised by the graduation	77122	programming, critical path analysis, gradient
1/105 1/12	 {linear graduations} logarithmic graduations, e.g. for multiplication		method
1/12	in which a straight or curved line has to be drawn	7/14	for addition or subtraction (of vector
1/14	from given points on one or more input scales to		quantities <u>G06G 7/22</u> {; computing the average
	one or more points on a result scale		by addition; differential amplifiers <u>H03F 3/45</u> })
1/16	• in which a straight or curved line has to be drawn	7/16	for multiplication or division $\{(\underline{G06G7/19} \text{ and }$
1,10	through related points on one or more families of		G06G 7/24 take precedence; measuring electric
	curves		power <u>G01R 21/00</u>)}

CPC - 2024.08 1

7/161	• • • with pulse modulation, e.g. modulation of amplitude, width, frequency, phase or form {(pulse modulators <u>H03K 7/00</u>)}	7/25	• • for discontinuous functions, e.g. backlash, dead zone, limiting absolute value or peak value {(measuring the maximum value of currents or
7/162	using galvano- magnetic effects, e.g. Hall effect; using similar magnetic effects	7/26	voltages <u>G01R 19/30</u>)} • Arbitrary function generators {(using Fourier
7/163	using a variable impedance controlled by one of the input signals, variable amplification or	7/20	series or other orthogonal functions <u>G06G 7/19</u> ; using curve followers <u>G06K 11/02</u>)}
	transfer function {(G06G 7/161, G06G 7/162 take precedence)}	7/28	for synthesising functions by piecewise approximation
7/164	using means for evaluating powers, e.g. quarter square multiplier (evaluating powers)	7/30	for interpolation or extrapolation (G06G 7/122 takes precedence)
7/18	G06G 7/20) • for integration or differentiation; for forming	7/32	for solving of equations {or inequations; for matrices}
7/10	integrals (G06G 7/19 takes precedence)	7/34	• • • of simultaneous equations (G06G 7/122 takes
7/1806	• • { with respect to a variable other than time}		precedence)
7/1813	• • { using electrochemical elements, e.g. solion}	7/36	of single equations of quadratic or higher
7/182	using magnetic elements		degree (<u>G06G 7/22</u> , <u>G06G 7/24</u> take
7/184	using capacitive elements		precedence)
7/186	using an operational amplifier comprising a	7/38	of differential or integral equations
//100		7/40	of partial differential equations {of field or
7/1865	capacitor or a resistor in the feedback loop {with initial condition setting}	7/40	wave equations}(simulating specific devices
7/188	 using electromechanical elements 		<u>G06G 7/48</u>)
7/19	for forming integrals of products, e.g. Fourier	7/42	using electrolytic tank
	integrals, Laplace integrals, correlation integrals;	7/44	using continuous medium, current-
	for analysis or synthesis of functions using		sensitive paper
	orthogonal functions (Fourier or spectrum	7/46	using discontinuous medium, e.g.
	analysis G01R 23/16; sound analysis or synthesis		resistance network
	G10L)	7/48	. Analogue computers for specific processes, systems
7/1907	• • {using charge transfer devices}		or devices, e.g. simulators
7/1914	 (using a magnetic medium, a linear filter) 	7/485	• • { for determining the trajectory of particles, e.g. of
		77 103	electrons (measurement performed on radiation
7/1921	{ for forming Fourier integrals, harmonic		beams <u>G01T 1/29</u> ; processing or analysing tracks
	analysis and synthesis (spectrum analysis		of particles <u>G01T 5/02</u>)}
= 4000	G01R 23/00)}	7/50	• • for distribution networks, e.g. for fluids
7/1928	• • • {for forming correlation integrals; for	7/30	
	forming convolution integrals (G06G 7/195,	7.50	$(\underline{G06G7/62} \text{ takes precedence})$
	G06G 7/1907 and G06G 7/1914 take precedence)}	7/52	• • for economic systems; for statistics (<u>G06G 7/122</u> , <u>G06G 7/19</u> take precedence)
7/1935	• • • {by converting at least one the input	7/54	 for nuclear physics, e.g. nuclear reactors,
	signals into a two level signal, e.g. polarity		radioactive fall {(processing of scintigraphic
	correlators}		or other radio-isotope data G01T 1/1647,
7/1942	• • • {for forming other integrals of product, e.g.		G01T 1/2992)}
	orthogonal functions, Laplace, Laguerre,	7/56	• • for heat flow (G06G 7/58 takes precedence)
	Walsh, Hadamard, Hilbert (G06G 7/195,	7/57	• • for fluid flow (G06G 7/50 takes precedence){; for
	G06G 7/1907 and G06G 7/1914 take	7757	distribution networks}
	precedence)}	7/58	• • for chemical processes (G06G 7/75 takes
7/105		1/36	
7/195	using electro- acoustic elements		<pre>precedence); {for physico-chemical processes; for metallurgical processes}</pre>
7/20	• for evaluating powers, roots, polynomes, mean	7/60	
	square values, standard deviation (G06G 7/122,	7/60	• • for living beings, e.g. their nervous systems {; for
	G06G 7/28 take precedence; gamma correction in		problems in the medical field}
7/22	television systems <u>H04N 5/20</u> , <u>H04N 9/69</u>) • for evaluating trigonometric functions; for	7/62	 for electric systems or apparatus {(G06G 7/78 takes precedence)}
1122	conversion of co-ordinates; for computations		
	involving vector quantities (trigonometric		<u>NOTE</u>
	computations using simultaneous equations		This group covers only computers specially
	G06G 7/34 {for computations in the complex		adapted for electronic systems or devices
	plane; G06G 7/20, G06G 7/28 take precedence})		_x
7/24	• • for evaluating logarithmic or exponential	7/625	• • • for filters; for delay lines {(measuring
, , <u>2</u> -t	functions, e.g. hyperbolic functions {(for		characteristics of electric networks, e.g.
	multiplication, division or for evaluating powers		plotting Nyquist diagram G01R 27/28)}
	or roots using logarithmic functions; gamma	7/63	for power apparatus, e.g. motors, or supply
	correction in television systems <u>H04N 5/20</u> ,		distribution networks {(for control systems of
			electric power apparatus G06G 7/66)}
	<u>H04N 9/69</u>)}	7/635	• • • for determining the most economical
			distribution in power systems
		7/64	• • for non-electric machines, e.g. turbine
		// 04	Tor non-creene machines, e.g. turonic

CPC - 2024.08

G06G

99/00	Subject matter not provided for in other groups of this subclass	
	missiles	
7/80	for gunlaying; for bomb aiming; for guiding	
	velocity measuring, or navigation systems	
7/78	for direction-finding, locating, distance or	
7/76	• • for traffic	
	chromatography G01N 30/00})	
	colours (G06G 7/122 takes precedence {; gas	
7/75	for component analysis, e.g. of mixtures, of	
7/72	• • Flight simulator (Link trainers <u>G09B 9/00</u>)	
	of ships {, centre of gravity, necessary fuel}	
7/70	• for vehicles, e.g. to determine permissible loading	
7/70		
7700	girder, {elasticity computation}	
7/68	• for civil engineering structures, e.g. beam, strut,	
	<u>G06G 7/122</u>)}	
7/66	• • for control systems {(for optimisation	

CPC - 2024.08