

# CPC COOPERATIVE PATENT CLASSIFICATION

## G06G ANALOGUE COMPUTERS (analogue optical computing devices [G06E 3/00](#))

<b>1/00</b>	<b>Hand manipulated computing devices (<a href="#">planimeters G01B 5/26</a>)</b>	<b>5/00</b>	<b>Devices in which the computing operation is performed by means of fluid-pressure elements (such elements in general <a href="#">F15C</a>)</b>
1/0005	. {characterised by a specific application}		
1/001	. . {for medical purposes, for biological purposes}	<b>7/00</b>	<b>Devices in which the computing operation is performed by varying electric or magnetic quantities</b>
1/0015	. . {for computing periodic phenomena, e.g. fertility periods}		
1/0021	. . {for civil engineering}	7/02	. Details not covered by <a href="#">G06G 7/04</a> - <a href="#">G06G 7/10</a> , {e.g. monitoring, construction, maintenance}
1/0026	. . {for machining}	7/04	. input or output devices ( <a href="#">graph readers G06K 11/00</a> ; <a href="#">function plotters, co-ordinate plotters G06K 15/22</a> , { <a href="#">G09G 3/001</a> })
1/0031	. . {for hydraulics}	7/06	. Programming arrangements, e.g. plugboard for interconnecting functional units of the computer; Digital programming {( <a href="#">hybrid computers G06J</a> )}
1/0036	. . {for electricity, for electronics}	7/10	. Power supply arrangements
1/0042	. . {for optics, for photography}	7/12	. Arrangements for performing computing operations, e.g. operational amplifiers ( <a href="#">amplifiers in general H03F</a> ; {adapted for telemeasuring or for indicating or recording the results of the measurement <a href="#">G01D 1/10</a> , <a href="#">G01D 1/16</a> ; for fuzzy computing <a href="#">G06N 7/02</a> })
1/0047	. . {for printing}	7/122	. . for optimisation, e.g. least square fitting, linear programming, critical path analysis, gradient method
1/0052	. . {for air navigation or sea navigation}	7/14	. . for addition or subtraction (of vector quantities <a href="#">G06G 7/22</a> {computing the average by addition; <a href="#">differential amplifiers H03F 3/45</a> })
1/0057	. . {for gun laying, for bomb aiming}	7/16	. . for multiplication or division {( <a href="#">G06G 7/19</a> and <a href="#">G06G 7/24</a> take precedence; measuring electric power <a href="#">G01R 21/00</a> )}
1/0063	. . {for calculating fuel consumption}	7/161	. . . with pulse modulation, e.g. modulation of amplitude, width, frequency, phase or form {( <a href="#">pulse modulators H03K 7/00</a> )}
1/0068	. . {for conversion from one unit system to another, e.g. from British to metric}	7/162	. . . using galvano- magnetic effects, e.g. Hall effect; using similar magnetic effects
1/0073	. . {for commerce, bank or invoicing}	7/163	. . . using a variable impedance controlled by one of the input signals, variable amplification or transfer function {( <a href="#">G06G 7/161</a> , <a href="#">G06G 7/162</a> take precedence)}
1/0078	. . . {for calculating interests}	7/164	. . . using means for evaluating powers, e.g. quarter square multiplier ( <a href="#">evaluating powers G06G 7/20</a> )
1/0084	. . . {for calculating earned incomes}	7/18	. . for integration or differentiation; for forming integrals ( <a href="#">G06G 7/19</a> takes precedence)
1/0089	. . . {for calculating taxes}	7/1806	. . . {with respect to a variable other than time}
1/0094	. . {for trigonometric computations}	7/1813	. . . {using electrochemical elements, e.g. solion}
1/02	. Devices in which computing is effected by adding, subtracting, or comparing lengths of parallel or concentric graduated scales {( <a href="#">G06G 1/0005</a> takes precedence)}	7/182	. . . using magnetic elements
1/025	. . {decimal point positioning devices}	7/184	. . . using capacitive elements
1/04	. . characterised by construction ( <a href="#">G06G 1/10</a> takes precedence)	7/186	. . . . using an operational amplifier comprising a capacitor or a resistor in the feedback loop
1/045	. . . {with scales borne by bands}	7/1865	. . . . . {with initial condition setting}
1/06	. . . with rectilinear scales, e.g. slide rule	7/188	. . . using electromechanical elements
1/065	. . . . {construction of the cursor}	7/19	. . for forming integrals of products, e.g. Fourier integrals, Laplace integrals, correlation integrals; for analysis or synthesis of functions using orthogonal functions ( <a href="#">Fourier or spectrum analysis G01R 23/16</a> ; <a href="#">sound analysis or synthesis G10L</a> )
1/08	. . . with circular or helical scales		
1/085	. . . . {borne by a cylinder}		
1/10	. . characterised by the graduation		
1/105	. . . {linear graduations}		
1/12	. . . Logarithmic graduations, e.g. for multiplication		
1/14	. in which a straight or curved line has to be drawn from given points on one or more input scales to one or more points on a result scale		
1/16	. in which a straight or curved line has to be drawn through related points on one or more families of curves		
<b>3/00</b>	<b>Devices in which the computing operation is performed mechanically (<a href="#">G06G 1/00</a> takes precedence)</b>		
3/02	. for performing additions or subtractions, e.g. differential gearing		
3/04	. for performing multiplication or divisions, e.g. variable-ratio gearing		
3/06	. for evaluating functions by using cams and cam followers		
3/08	. for integrating or differentiating, e.g. by wheel and disc		
3/10	. for simulating specific processes, systems, or devices		

- 7/1907 . . . {using charge transfer devices}
- 7/1914 . . . {using a magnetic medium, a linear filter}
- 7/1921 . . . {for forming Fourier integrals, harmonic analysis and synthesis (spectrum analysis [G01R 23/00](#))}
- 7/1928 . . . {for forming correlation integrals; for forming convolution integrals ([G06G 7/195](#), [G06G 7/1907](#) and [G06G 7/1914](#) take precedence)}
- 7/1935 . . . . {by converting at least one the input signals into a two level signal, e.g. polarity correlators}
- 7/1942 . . . {for forming other integrals of product, e.g. orthogonal functions, Laplace, Laguerre, Walsh, Hadamard, Hilbert ([G06G 7/195](#), [G06G 7/1907](#) and [G06G 7/1914](#) take precedence)}
- 7/195 . . . using electro- acoustic elements
- 7/20 . . for evaluating powers, roots, polynomes, mean square values, standard deviation ([G06G 7/122](#), [G06G 7/28](#) take precedence; gamma correction in television systems [H04N 5/20](#), [H04N 9/69](#))
- 7/22 . . for evaluating trigonometric functions; for conversion of co-ordinates; for computations involving vector quantities (trigonometric computations using simultaneous equations [G06G 7/34](#) {for computations in the complex plane; [G06G 7/20](#), [G06G 7/28](#) take precedence})
- 7/24 . . for evaluating logarithmic or exponential functions, e.g. hyperbolic functions {(for multiplication, division or for evaluating powers or roots using logarithmic functions; gamma correction in television systems [H04N 5/20](#), [H04N 9/69](#))}
- 7/25 . . for discontinuous functions, e.g. backlash, dead zone, limiting absolute value or peak value {(measuring the maximum value of currents or voltages [G01R 19/30](#))}
- 7/26 . . Arbitrary function generators {(using Fourier series or other orthogonal functions [G06G 7/19](#); using curve followers [G06K 11/02](#))}
- 7/28 . . . for synthesising functions by piece-wise approximation
- 7/30 . . for interpolation or extrapolation ([G06G 7/122](#) takes precedence)
- 7/32 . . for solving of equations {or inequations; for matrices}
- 7/34 . . . of simultaneous equations ([G06G 7/122](#) takes precedence)
- 7/36 . . . of single equations of quadratic or higher degree ([G06G 7/22](#), [G06G 7/24](#) take precedence)
- 7/38 . . . of differential or integral equations
- 7/40 . . . . of partial differential equations {of field or wave equations} (simulating specific devices [G06G 7/48](#))
- 7/42 . . . . . using electrolytic tank
- 7/44 . . . . . using continuous medium, current-sensitive paper
- 7/46 . . . . . using discontinuous medium, e.g. resistance network
- 7/48 . . . . . Analogue computers for specific processes, systems or devices, e.g. simulators
- 7/485 . . {for determining the trajectory of particles, e.g. of electrons (measurement performed on radiation beams [G01T 1/29](#); processing or analysing tracks of particles [G01T 5/02](#))}
- 7/50 . . for distribution networks, e.g. for fluids ([G06G 7/62](#) takes precedence)
- 7/52 . . for economic systems; for statistics ([G06G 7/122](#), [G06G 7/19](#) take precedence)
- 7/54 . . for nuclear physics, e.g. nuclear reactors, radioactive fall {(processing of scintigraphic or other radio-isotope data [G01T 1/1647](#), [G01T 1/2992](#))}
- 7/56 . . for heat flow ([G06G 7/58](#) takes precedence)
- 7/57 . . for fluid flow ([G06G 7/50](#) takes precedence); {for distribution networks}
- 7/58 . . for chemical processes ([G06G 7/75](#) takes precedence); {for physico-chemical processes; for metallurgical processes}
- 7/60 . . for living beings, e.g. their nervous systems; {for problems in the medical field}
- 7/62 . . for electric systems or apparatus {([G06G 7/78](#) takes precedence)}
- NOTE**
- This group covers only computers specially adapted for electronic systems or devices
- 7/625 . . . for filters; for delay lines {(measuring characteristics of electric networks, e.g. plotting Nyquist diagram [G01R 27/28](#))}
- 7/63 . . . for power apparatus, e.g. motors, or supply distribution networks {(for control systems of electric power apparatus [G06G 7/66](#))}
- 7/635 . . . . for determining the most economical distribution in power systems
- 7/64 . . for non-electric machines, e.g. turbine
- 7/66 . . for control systems {(for optimisation [G06G 7/122](#))}
- 7/68 . . for civil engineering structures, e.g. beam, strut, girder, {elasticity computation}
- 7/70 . . for vehicles, e.g. to determine permissible loading of ships, {centre of gravity, necessary fuel}
- 7/72 . . . Flight simulator (link trainers [G09B 9/00](#))
- 7/75 . . for component analysis, e.g. of mixtures, of colours ([G06G 7/122](#) takes precedence; {gas chromatography [G01N 30/00](#))}
- 7/76 . . for traffic
- 7/78 . . for direction-finding, locating, distance or velocity measuring, or navigation systems
- 7/80 . . for gunlaying; for bomb aiming; for guiding missiles
- 99/00 Subject matter not provided for in other groups of this subclass**