

CPC**COOPERATIVE PATENT CLASSIFICATION****G06G****ANALOGUE COMPUTERS** ([analogue optical computing devices G06E 3/00](#))**G06G 1/00****Hand manipulated computing devices** ([planimeters G01B 5/26](#))

G06G 1/0005

- {characterised by a specific application}

G06G 1/001

- • {for medical purposes, for biological purposes}

G06G 1/0015

- • {for computing periodic phenomena e.g. fertility periods}

G06G 1/0021

- • {for civil engineering}

G06G 1/0026

- • {for machining}

G06G 1/0031

- • {for hydraulics}

G06G 1/0036

- • {for electricity, for electronics}

G06G 1/0042

- • {for optics, for photography}

G06G 1/0047

- • {for printing}

G06G 1/0052

- • {for air navigation or sea navigation}

G06G 1/0057

- • {for gun laying, for bomb aiming}

G06G 1/0063

- • {for calculating fuel consumption}

G06G 1/0068

- • {for conversion from one unit system to another, e.g. from British to metric}

G06G 1/0073

- • {for commerce, bank or invoicing}

G06G 1/0078

- • • {for calculating interests}

G06G 1/0084

- • • {for calculating earned incomes}

G06G 1/0089

- • • {for calculating taxes}

G06G 1/0094

- • {for trigonometric computations}

G06G 1/02

- Devices in which computing is effected by adding, subtracting, or comparing lengths of parallel or concentric graduated scales ([G06G 1/0005 takes precedence](#))

G06G 1/025

- • {decimal point positioning devices}

G06G 1/04

- • characterised by construction ([G06G 1/10 takes precedence](#))

G06G 1/045

- • • {with scales borne by bands}

G06G 1/06

- • • with rectilinear scales, e.g. slide rule

G06G 1/065

- • • • {construction of the cursor}

G06G 1/08

- • • with circular or helical scales

G06G 1/085

- • • • {borne by a cylinder}

G06G 1/10

- • characterised by the graduation

G06G 1/105

- • • {linear graduations}

G06G 1/12

- • • Logarithmic graduations, e.g. for multiplication

G06G 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

G06G 1/16

- in which a straight or curved line has to be drawn through related points on one or more families of curves

G06G 3/00	Devices in which the computing operation is performed mechanically (G06G 1/00 takes precedence)
G06G 3/02	<ul style="list-style-type: none"> for performing additions or subtractions, e.g. differential gearing
G06G 3/04	<ul style="list-style-type: none"> for performing multiplication or divisions, e.g. variable-ratio gearing
G06G 3/06	<ul style="list-style-type: none"> for evaluating functions by using cams and cam followers
G06G 3/08	<ul style="list-style-type: none"> for integrating or differentiating, e.g. by wheel and disc
G06G 3/10	<ul style="list-style-type: none"> for simulating specific processes, systems, or devices
G06G 5/00	Devices in which the computing operation is performed by means of fluid-pressure elements (such elements in general F15C)
G06G 7/00	Devices in which the computing operation is performed by varying electric or magnetic quantities
G06G 7/02	<ul style="list-style-type: none"> Details not covered by G06G 7/04 to G06G 7/10, {e.g. monitoring, construction, maintenance}
G06G 7/04	<ul style="list-style-type: none"> input or output devices (graph readers G06K 11/00; function plotters, co-ordinate plotters G06K 15/22, {G09G 3/001})
G06G 7/06	<ul style="list-style-type: none"> Programming arrangements, e.g. plugboard for interconnecting functional units of the computer; Digital programming {(hybrid computers G06J)}
G06G 7/10	<ul style="list-style-type: none"> Power supply arrangements
G06G 7/12	<ul style="list-style-type: none"> Arrangements for performing computing operations, e.g. operational amplifiers (amplifiers in general H03F; {adapted for telemeasuring or for indicating or recording the results of the measurement G01D 1/10, G01D 1/16; for fuzzy computing G06N 7/02)}
G06G 7/122	<ul style="list-style-type: none"> <ul style="list-style-type: none"> for optimisation, e.g. least square fitting, linear programming, critical path analysis, gradient method
G06G 7/14	<ul style="list-style-type: none"> <ul style="list-style-type: none"> for addition or subtraction (of vector quantities G06G 7/22 {computing the average by addition; differential amplifiers H03F 3/45})
G06G 7/16	<ul style="list-style-type: none"> <ul style="list-style-type: none"> for multiplication or division {(G06G 7/19 and G06G 7/24 take precedence ; measuring electric power G01R 21/00)}
G06G 7/161	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> with pulse modulation, e.g. modulation of amplitude, width, frequency, phase or form {(pulse modulators H03K 7/00)}
G06G 7/162	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> using galvano- magnetic effects, e.g. Hall effect; using similar magnetic effects
G06G 7/163	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> using a variable impedance controlled by one of the input signals, variable amplification or transfer function {(G06G 7/161, G06G 7/162 take precedence)}
G06G 7/164	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> using means for evaluating powers, e.g. quarter square multiplier (evaluating powers G06G 7/20)
G06G 7/18	<ul style="list-style-type: none"> <ul style="list-style-type: none"> for integration or differentiation; for forming integrals (G06G 7/19 takes precedence)
G06G 7/1806	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with respect to a variable other than time}
G06G 7/1813	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {using electrochemical elements, e.g. solion}
G06G 7/182	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> using magnetic elements
G06G 7/184	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> using capacitative elements

- G06G 7/186 using an operational amplifier comprising a capacitor or a resistor in the feedback loop
- G06G 7/1865 {with initial condition setting}
- G06G 7/188 . . . using electromechanical elements
- G06G 7/19 . . for forming integrals of products, e.g. Fourier integrals, Laplace integrals, correlation integrals; for analysis or synthesis of functions using orthogonal functions ([Fourier or spectrum analysis G01R 23/16](#); [sound analysis or synthesis G10L](#))
- G06G 7/1907 . . . {using charge transfer devices}
- G06G 7/1914 . . . {using a magnetic medium, a linear filter}
- G06G 7/1921 . . . {for forming Fourier integrals, harmonic analysis and synthesis ([spectrum analysis G01R 23/00](#))}
- G06G 7/1928 . . . {for forming correlation integrals; for forming convolution integrals ([G06G 7/195](#), [G06G 7/1907](#) and [G06G 7/1914](#) take precedence)}
- G06G 7/1935 {by converting at least one the input signals into a two level signal, e.g. polarity correlators}
- G06G 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)}
- G06G 7/195 . . . using electro- acoustic elements
- G06G 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](#))
- G06G 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})
- G06G 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](#))}
- G06G 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](#))}
- G06G 7/26 . . Arbitrary function generators {(using Fourier series or other orthogonal functions [G06G 7/19](#); using curve followers [G06K 11/02](#))}
- G06G 7/28 . . . for synthesising functions by piece-wise approximation
- G06G 7/30 . . for interpolation or extrapolation ([G06G 7/122](#) takes precedence)
- G06G 7/32 . . for solving of equations {or inequations; for matrices}
- G06G 7/34 . . . of simultaneous equations ([G06G 7/122](#) takes precedence)
- G06G 7/36 . . . of single equations of quadratic or higher degree ([G06G 7/22](#), [G06G 7/24](#) take precedence)
- G06G 7/38 . . . of differential or integral equations
- G06G 7/40 of partial differential equations {of field or wave equations} ([simulating specific devices G06G 7/48](#))
- G06G 7/42 using electrolytic tank

- G06G 7/44 using continuous medium, current-sensitive paper
- G06G 7/46 using discontinuous medium, e.g. resistance network
- G06G 7/48 . Analogue computers for specific processes, systems or devices, e.g. simulators
- G06G 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](#))}
- G06G 7/50 . . for distribution networks, e.g. for fluids ([G06G 7/62](#) takes precedence)
- G06G 7/52 . . for economic systems; for statistics ([G06G 7/122](#), [G06G 7/19](#) take precedence)
- G06G 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](#))}
- G06G 7/56 . . for heat flow ([G06G 7/58](#) takes precedence)
- G06G 7/57 . . for fluid flow ([G06G 7/50](#) takes precedence); {for distribution networks}
- G06G 7/58 . . for chemical processes ([G06G 7/75](#) takes precedence); {for physico-chemical processes; for metallurgical processes}
- G06G 7/60 . . for living beings, e.g. their nervous systems; {for problems in the medical field}
- G06G 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

- G06G 7/625 . . . for filters; for delay lines {(measuring characteristics of electric networks, e.g. plotting Nyquist diagram [G01R 27/28](#))}
- G06G 7/63 . . . for power apparatus, e.g. motors, or supply distribution networks {(for control systems of electric power apparatus [G06G 7/66](#))}
- G06G 7/635 for determining the most economical distribution in power systems
- G06G 7/64 . . for non-electric machines, e.g. turbine
- G06G 7/66 . . for control systems {(for optimisation [G06G 7/122](#))}
- G06G 7/68 . . for civil engineering structures, e.g. beam, strut, girder, {elasticity computation}
- G06G 7/70 . . for vehicles, e.g. to determine permissible loading of ships, {centre of gravity, necessary fuel}
- G06G 7/72 . . . Flight simulator (link trainers [G09B 9/00](#))
- G06G 7/75 . . for component analysis, e.g. of mixtures, of colours ([G06G 7/122](#) takes precedence; {gas chromatography [G01N 30/00](#))}
- G06G 7/76 . . for traffic
- G06G 7/78 . . for direction-finding, locating, distance or velocity measuring, or navigation systems
- G06G 7/80 . . for gunlaying; for bomb aiming; for guiding missiles

G06G 99/00 Subject matter not provided for in other groups of this subclass