

SECTION G — PHYSICS

G06 COMPUTING; CALCULATING; COUNTING

G06C DIGITAL COMPUTERS IN WHICH ALL THE COMPUTATION IS EFFECTED MECHANICALLY (score computers for card games A63F 1/18; construction of keys, printing mechanisms, or other parts of general application to the typewriting or printing art B41; keys or printing mechanisms for special applications, see the relevant subclass, e.g. G05G, G06K; cash registers G07G 1/00) [4]

Note(s)

This subclass does not cover details of mechanisms covered by main groups G06C 9/00, G06C 11/00 or G06C 15/00, which are applicable to mechanical counters driven only through the lowest denomination. Such details are covered by subclass G06M.

Subclass index

MACHINES CHARACTERISED BY THEIR STRUCTURAL INTERCONNECTION.....	27/00
FUNCTIONAL ELEMENTARY MECHANISMS	
Input; transfer; output; storage; computing.....	7/00, 9/00, 11/00, 13/00, 15/00
AUXILIARY MECHANISMS OR ARRANGEMENTS	
Conversion; decimal-point; programming; driving; auxiliary arrangements.....	17/00, 19/00, 21/00, 23/00, 25/00
NON-FUNCTIONAL ELEMENTS: HOUSINGS, FRAMEWORKS.....	5/00
COMBINATIONS OF COMPUTING MACHINES WITH OTHER MACHINES.....	29/00
COMPUTING AIDS, OTHER THAN MACHINES.....	1/00, 3/00

1/00 Computing aids in which the computing members form at least part of the displayed result and are manipulated directly by hand, e.g. abacus, pocket adding device

3/00 Arrangements for table look-up, e.g. menstruation table

5/00 Non-functional elements

- 5/02 • Housings; Frameworks

7/00 Input mechanisms (pin carriage G06C 13/02)

- 7/02 • Keyboards
- 7/04 • • Interlocking devices, e.g. between keys (interlocking devices covered by this subclass, in general G06C 25/00)
- 7/06 • • with one set of keys for each denomination
- 7/08 • • with one set of keys for all denominations, e.g. ten-key board
- 7/09 • Transfer of data from record carrier to computing mechanisms (sensing record carriers G06K 7/00)
- 7/10 • Transfer mechanisms, e.g. transfer of a figure from a ten-key keyboard into the pin carriage
- 7/12 • Resetting devices, e.g. for the keyboard

9/00 Transfer mechanisms, e.g. for transmitting figures from the input mechanism into the computing mechanism (G06C 7/10, G06C 11/00, G06C 15/00 take precedence)

- 9/02 • Back-transfer arrangements, e.g. to transfer a value accumulated in a register back into the selection mechanism

11/00 Output mechanisms (marking record carriers in general, visual presentation in general of results of the mathematical operations G06K)

- 11/02 • with visual indication, e.g. counter drum
- 11/04 • with printing mechanisms, e.g. for character-at-a-time or line-at-a-time printing
- 11/06 • • having type hammers
- 11/08 • with punching mechanism
- 11/10 • Arrangements for feeding single sheets or continuous web or tape, e.g. ejection device (conveying record carriers G06K 13/00); Line-spacing devices
- 11/12 • • for feeding tape

13/00 Storage mechanisms (mechanical counters with input only to the lowest order G06M; information storage in general G11)

- 13/02 • Operand stores, e.g. pin carriage (input mechanisms G06C 7/00)
- 13/04 • Print buffer stores

15/00 Computing mechanisms; Actuating devices therefor (mechanisms for operating automatically upon more than two numbers otherwise than by repeated addition or subtraction G06C 21/00)

- 15/02 • operating on the binary scale

Note(s)

Group G06C 15/02 takes precedence over groups G06C 15/04-G06C 15/42.

- 15/04 • Adding or subtracting devices (G06C 15/08 takes precedence)
- 15/06 • • having balance totalising; Obtaining sub-total
- 15/08 • Multiplying or dividing devices; Devices for computing the exponent or root

G06C

- 15/10 • • having more than one denominational set of keys operating directly on computing mechanism
- 15/12 • • having pin carriage
- 15/14 • • having pin wheel, e.g. Odhner type
- 15/16 • • having stepped-toothed actuating drums, e.g. Thomas type
- 15/18 • • having multiplication table for forming partial products
- 15/20 • • adapted for short-cut multiplication or division [2]
- 15/22 • Arrangements for two or more computing devices; Arrangements for subdivision into two or more computing mechanisms, e.g. splitting
- 15/24 • Devices for counting the cycles of operation in division or multiplication (item-counting devices G06C 25/02)
- 15/26 • Devices for transfer between orders, e.g. tens-transfer device
- 15/28 • • where transfer is effected in one step
- 15/30 • • where transfer is effected in two steps
- 15/32 • • • with provision for simultaneous transfer between all orders
- 15/34 • • where transfer is effected by planet gear, i.e. crawl type
- 15/36 • • • with aligning means
- 15/38 • • for pin-wheel computing mechanisms
- 15/40 • • for stepped-toothed-drum computing mechanism
- 15/42 • Devices for resetting to zero or other datum
- 15/44 • Devices for comparing numerical values, e.g. zero check
- 15/46 • Arrangements for rounding-off
- 15/48 • Arrangements for selection of one out of several counting registers (arrangements for controlling subsequent operating functions G06C 21/04; item counters G06C 25/02)
- 17/00 Mechanisms for converting from one notational system to another, i.e. radix conversion**

- 19/00 Decimal-point mechanisms; Analogous mechanisms for non-decimal notations**
- 19/02 • Devices for indicating the point
- 19/04 • Devices for printing the point
- 21/00 Programming-mechanisms for determining the steps to be performed by the computing machine, e.g. when a key or certain keys are depressed**
(mechanisms merely for producing multiplication by repeated addition G06C 15/08)
- 21/02 • in which the operation of the mechanism is determined by the position of the carriage
- 21/04 • Conditional arrangements for controlling subsequent operating functions, e.g. control arrangement triggered by a function key and depending on the condition of the register (arrangements for selection of one out of several counting registers G06C 15/48)
- 23/00 Driving mechanisms for functional elements**
- Note(s)**
Group G06C 23/08 takes precedence over groups G06C 23/02-G06C 23/06.
- 23/02 • of main shaft
- 23/04 • of pin carriage, e.g. for step-by-step movement
- 23/06 • of tabulation devices, e.g. of carriage skip
- 23/08 • Hydraulic or pneumatic actuation
- 25/00 Auxiliary functional arrangements, e.g. interlocks**
(interlocks in keyboards G06C 7/04) [2]
- 25/02 • Item-counting devices (devices for counting the cycles of operation in division or multiplication G06C 15/24)
- 27/00 Computing machines characterised by the structural interrelation of their functional units, e.g. invoicing machines**
- 29/00 Combinations of computing machines with other machines, e.g. with typewriter, with money-changing apparatus**