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, <u>see</u> the relevant subclass, e.g. G05G, G06K; cash registers G07G 1/00) **[4]**

Note(s)

This subclass <u>does not cover</u> 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

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

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