

**CPC****COOPERATIVE PATENT CLASSIFICATION****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 subclasses, e.g. [G05G](#) , [G06K](#) ; cash registers [G07G 1/00](#))

**NOTE**

Details of mechanisms covered in main groups [G06C 9/00](#), [G06C 11/00](#) or [G06C 15/00](#), which are applicable to mechanical counters driven only through the lowest denomination, are classified in [G06M](#)

**Guidance heading:**

- G06C 1/00**      **Computing aids in which the computing members form at least part of the displayed result and manipulated directly by hand, e.g. abacus, pocket adding device**
- G06C 3/00**      **Arrangements for table look-up, e.g. menstruation table**
- G06C 5/00**      **Non-functional elements**
- G06C 5/02      .    Housing; Frameworks
- G06C 7/00**      **Input mechanisms** (pin carriage [G06C 13/02](#))
- G06C 7/02      .    Keyboards
- G06C 7/04      . .   Interlocking devices, e.g. between keys (interlocking devices covered by this subclass, per se [G06C 25/00](#))
- G06C 7/06      . .   with one set of keys for each denomination
- G06C 7/08      . .   with one set of keys for all denominations, e.g. ten-key board
- G06C 7/09      .    Transfer of data from record carrier to computing mechanisms ([sensing record carriers G06K 7/00](#))
- G06C 7/10      .    Transfer mechanisms, e.g. transfer of a figure from a ten-key keyboard into the pin carriage
- G06C 7/12      .    Resetting devices, e.g. for the key-board
- G06C 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)
- G06C 9/02      .    Back-transfer arrangements, e.g. to transfer a value accumulated in a register back

into the selection mechanism

**G06C 11/00**      **Output mechanism** (marking record carriers in general, visual presentation in general of results of the mathematical operations [G06K](#) )

- G06C 11/02      . with visual indication, e.g. counter drum
- G06C 11/04      . with printing mechanisms, e.g. for character-at-a-time or line-at-a-time printing
- G06C 11/06      . . having type hammers
- G06C 11/08      . with punching mechanism
- G06C 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
- G06C 11/12      . . for feeding tape

**G06C 13/00**      **Storage mechanisms** (mechanical counters with input only to the lowest order [G06M](#) ; information storage in general [G11](#) )

- G06C 13/02      . Operand stores, e.g. pin carriage (input mechanisms [G06C 7/00](#))
- G06C 13/04      . print buffer stores

**G06C 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](#))

#### **NOTE**

Group [G06C 15/00](#) takes precedence over groups [G06C 15/04](#) to [G06C 15/42](#)

- G06C 15/02      . operating on the binary scale
- G06C 15/04      . Adding or subtracting devices ([G06C 15/08](#) takes precedence)
- G06C 15/06      . . having balance totalising; Obtaining sub-total
- G06C 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
- G06C 15/12      . . having pin carriage
- G06C 15/14      . . having pin wheel, e.g. Odhner type
- G06C 15/16      . . having stepped-toothed actuating drums, e.g. Thomas type
- G06C 15/18      . . having multiplication table for forming partial products
- G06C 15/20      . . adapted for short-cut multiplication or division
- G06C 15/22      . Arrangements for two or more computing devices; Arrangements for subdivision into two or more computing mechanisms, e.g. splitting

- G06C 15/24 . Devices for counting the cycles of operation in division or multiplication ([item counting devices G06C 25/02](#))
- G06C 15/26 . Devices for transfer between order, e.g. tens transfer device
- G06C 15/28 . . where transfer is effected in one step
- G06C 15/30 . . where transfer is effected in two steps
- G06C 15/32 . . . with provision for simultaneous transfer between all ordners
- G06C 15/34 . . where transfer is affected by planet gear, i.e. crawl type
- G06C 15/36 . . . with aligning means
- G06C 15/38 . . for pin-wheel computing mechanisms
- G06C 15/40 . . for stepped toothed drum computing mechanism
- G06C 15/42 . Devices for resetting to zero or other datum
- G06C 15/44 . Devices for comparing numerical values, e.g. zero check
- G06C 15/46 . Arrangements for rounding-off
- G06C 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](#))
- G06C 17/00** **Mechanisms for converting from one notational system to another, i.e. radix conversion**
- G06C 19/00** **Decimal-point mechanisms; Analogous mechanisms for non-decimal notations**
- G06C 19/02 . Devices for indicating the point
- G06C 19/04 . Devices for printing the point
- G06C 21/00** **Programming mechanisms for determining 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](#))
- G06C 21/02 . in which the operation of the mechanism is determined by the position of the carriage
- G06C 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 cut of several counting registers G06C 15/48](#))
- G06C 23/00** **Driving mechanisms for functional elements** ([G06C 23/08 takes precedence over G06C 23/02 to G06C 23/06](#))
- G06C 23/02 . of main shaft
- G06C 23/04 . of pin carriage, e.g. for step-by-step movement

- G06C 23/06
  - . of tabulation devices, e.g. of carriage skip
- G06C 23/08
  - . Hydraulic or pneumatic actuation
- G06C 25/00** **Auxiliary functional arrangements, e.g. interlocks** ([interlocks in keyboards G06C 7/04](#))
- G06C 25/02
  - . Item-counting devices ([devices for counting the cycles of operation in division or multiplication G06C 15/24](#))
- G06C 27/00** **Computing machines characterised by the structural interrelation of their functional units, e.g. invoicing machines**
- G06C 29/00** **Combinations of computing machines with other machines, e.g. with typewriter, with money-changing apparatus**