

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### INSTRUMENTS

**G06 COMPUTING; CALCULATING; COUNTING** (score computers for games [A63B 71/06](#), [A63D 15/20](#), [A63F 1/18](#); combinations of writing implements with computing devices [B43K 29/08](#))  
(NOTE omitted)

**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](#)

|              |  |              |  |
|--------------|--|--------------|--|
| <b>1/00</b>  | <b>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</b>  | 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 ( <a href="#">conveying record carriers G06K 13/00</a> ); Line-spacing devices                                    |
| <b>3/00</b>  | <b>Arrangements for table look-up, e.g. menstruation table</b>   | 11/12        | • . for feeding tape   |
| <b>5/00</b>  | <b>Non-functional elements</b>   | <b>13/00</b> | <b>Storage mechanisms</b> (mechanical counters with input only to the lowest order <a href="#">G06M</a> ; information storage in general <a href="#">G11</a> )   |
| 5/02         | • Housings; Frameworks   | 13/02        | • Operand stores, e.g. pin carriage ( <a href="#">input mechanisms G06C 7/00</a> )   |
| <b>7/00</b>  | <b>Input mechanisms</b> (pin carriage <a href="#">G06C 13/02</a> )   | 13/04        | • Print buffer stores  |
| 7/02         | • Keyboards  | <b>15/00</b> | <b>Computing mechanisms; Actuating devices therefor</b> (mechanisms for operating automatically upon more than two numbers otherwise than by repeated addition or subtraction <a href="#">G06C 21/00</a> ) |
| 7/04         | • . Interlocking devices, e.g. between keys ( <a href="#">interlocking devices covered by this subclass, per se G06C 25/00</a> )   |              | <b><u>NOTE</u></b>   |
| 7/06         | • . with one set of keys for each denomination   |              | Group <a href="#">G06C 15/00</a> takes precedence over groups <a href="#">G06C 15/04</a> - <a href="#">G06C 15/42</a>  |
| 7/08         | • . with one set of keys for all denominations, e.g. ten-key board   | 15/02        | • operating on the binary scale  |
| 7/09         | • Transfer of data from record carrier to computing mechanisms ( <a href="#">sensing record carriers G06K 7/00</a> )   | 15/04        | • Adding or subtracting devices ( <a href="#">G06C 15/08</a> takes precedence)   |
| 7/10         | • Transfer mechanisms, e.g. transfer of a figure from a ten-key keyboard into the pin carriage   | 15/06        | • . having balance totalising; Obtaining sub-total   |
| 7/12         | • Resetting devices, e.g. for the keyboard   | 15/08        | • Multiplying or dividing devices; Devices for computing the exponent or root  |
| <b>9/00</b>  | <b>Transfer mechanisms, e.g. for transmitting figures from the input mechanism into the computing mechanism</b> ( <a href="#">G06C 7/10</a> , <a href="#">G06C 11/00</a> , <a href="#">G06C 15/00</a> take precedence) | 15/10        | • . having more than one denominational set of keys operating directly on computing mechanism  |
| 9/02         | • Back-transfer arrangements, e.g. to transfer a value accumulated in a register back into the selection mechanism   | 15/12        | • . having pin carriage  |
| <b>11/00</b> | <b>Output mechanism</b> (marking record carriers in general, visual presentation in general of results of the mathematical operations <a href="#">G06K</a> )   | 15/14        | • . having pin wheel, e.g. Odhner type   |
| 11/02        | • with visual indication, e.g. counter drum  | 15/16        | • . having stepped-toothed actuating drums, e.g. Thomas type   |
| 11/04        | • with printing mechanisms, e.g. for character-at-a-time or line-at-a-time printing  | 15/18        | • . having multiplication table for forming partial products   |

- 15/20 . . adapted for short-cut multiplication or division
- 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 affected 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 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 cut of several counting registers G06C 15/48](#))

**23/00 Driving mechanisms for functional elements ([G06C 23/08 takes precedence over 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](#))**

- 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**