

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### INSTRUMENTS

## G06 COMPUTING; CALCULATING; COUNTING (NOTES 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](#)

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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

#### NOTE

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

|       |   |       |  |
|-------|---|-------|--|
| 15/16 | <ul style="list-style-type: none"> <li>• . having stepped-toothed actuating drums, e.g. Thomas type</li> </ul>  | 27/00 | <b>Computing machines characterised by the structural interrelation of their functional units, e.g. invoicing machines</b> |
| 15/18 | <ul style="list-style-type: none"> <li>• . having multiplication table for forming partial products</li> </ul>  | 29/00 | <b>Combinations of computing machines with other machines, e.g. with typewriter, with money-changing apparatus</b>         |
| 15/20 | <ul style="list-style-type: none"> <li>• . adapted for short-cut multiplication or division</li> </ul>  |       |  |
| 15/22 | <ul style="list-style-type: none"> <li>• Arrangements for two or more computing devices; Arrangements for subdivision into two or more computing mechanisms, e.g. splitting</li> </ul>  |       |  |
| 15/24 | <ul style="list-style-type: none"> <li>• Devices for counting the cycles of operation in division or multiplication (<a href="#">item counting devices G06C 25/02</a>)</li> </ul>   |       |  |
| 15/26 | <ul style="list-style-type: none"> <li>• Devices for transfer between orders, e.g. tens transfer device</li> </ul>  |       |  |
| 15/28 | <ul style="list-style-type: none"> <li>• . where transfer is effected in one step</li> </ul>  |       |  |
| 15/30 | <ul style="list-style-type: none"> <li>• . where transfer is effected in two steps</li> </ul>   |       |  |
| 15/32 | <ul style="list-style-type: none"> <li>• . . with provision for simultaneous transfer between all orders</li> </ul>   |       |  |
| 15/34 | <ul style="list-style-type: none"> <li>• . where transfer is affected by planet gear, i.e. crawl type</li> </ul>  |       |  |
| 15/36 | <ul style="list-style-type: none"> <li>• . . with aligning means</li> </ul>   |       |  |
| 15/38 | <ul style="list-style-type: none"> <li>• . for pin-wheel computing mechanisms</li> </ul>  |       |  |
| 15/40 | <ul style="list-style-type: none"> <li>• . for stepped toothed drum computing mechanism</li> </ul>  |       |  |
| 15/42 | <ul style="list-style-type: none"> <li>• Devices for resetting to zero or other datum</li> </ul>  |       |  |
| 15/44 | <ul style="list-style-type: none"> <li>• Devices for comparing numerical values, e.g. zero check</li> </ul>   |       |  |
| 15/46 | <ul style="list-style-type: none"> <li>• Arrangements for rounding-off</li> </ul>   |       |  |
| 15/48 | <ul style="list-style-type: none"> <li>• Arrangements for selection of one out of several counting registers (<a href="#">arrangements for controlling subsequent operating functions G06C 21/04</a>; <a href="#">item counters G06C 25/02</a>)</li> </ul>  |       |  |
| 17/00 | <b>Mechanisms for converting from one notational system to another, i.e. radix conversion</b>   |       |  |
| 19/00 | <b>Decimal-point mechanisms; Analogous mechanisms for non-decimal notations</b>   |       |  |
| 19/02 | <ul style="list-style-type: none"> <li>• Devices for indicating the point</li> </ul>  |       |  |
| 19/04 | <ul style="list-style-type: none"> <li>• Devices for printing the point</li> </ul>  |       |  |
| 21/00 | <b>Programming mechanisms for determining steps to be performed by the computing machine, e.g. when a key or certain keys are depressed (<a href="#">mechanisms merely for producing multiplication by repeated addition G06C 15/08</a>)</b>  |       |  |
| 21/02 | <ul style="list-style-type: none"> <li>• in which the operation of the mechanism is determined by the position of the carriage</li> </ul>   |       |  |
| 21/04 | <ul style="list-style-type: none"> <li>• Conditional arrangements for controlling subsequent operating functions, e.g. control arrangement triggered by a function key and depending on the condition of the register (<a href="#">arrangements for selection of one cut of several counting registers G06C 15/48</a>)</li> </ul> |       |  |
| 23/00 | <b>Driving mechanisms for functional elements (<a href="#">G06C 23/08 takes precedence over G06C 23/02 - G06C 23/06</a>)</b>  |       |  |
| 23/02 | <ul style="list-style-type: none"> <li>• of main shaft</li> </ul>   |       |  |
| 23/04 | <ul style="list-style-type: none"> <li>• of pin carriage, e.g. for step-by-step movement</li> </ul>   |       |  |
| 23/06 | <ul style="list-style-type: none"> <li>• of tabulation devices, e.g. of carriage skip</li> </ul>  |       |  |
| 23/08 | <ul style="list-style-type: none"> <li>• Hydraulic or pneumatic actuation</li> </ul>  |       |  |
| 25/00 | <b>Auxiliary functional arrangements, e.g. interlocks (<a href="#">interlocks in keyboards G06C 7/04</a>)</b>   |       |  |
| 25/02 | <ul style="list-style-type: none"> <li>• Item-counting devices (<a href="#">devices for counting the cycles of operation in division or multiplication G06C 15/24</a>)</li> </ul>   |       |  |