

# 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> )		<b><u>NOTE</u></b>
7/10	• Transfer mechanisms, e.g. transfer of a figure from a ten-key keyboard into the pin carriage		Group <a href="#">G06C 15/00</a> takes precedence over groups <a href="#">G06C 15/04</a> - <a href="#">G06C 15/42</a>
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 (marking record carriers in general, visual presentation in general of results of the mathematical operations <a href="#">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

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>		