

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### INSTRUMENTS

## G06 COMPUTING OR CALCULATING; COUNTING (NOTES omitted)

## G06M COUNTING MECHANISMS; COUNTING OF OBJECTS NOT OTHERWISE PROVIDED FOR (counting by measuring volume or weight of articles to be counted [G01F](#), [G01G](#); computers [G06C](#) - [G06J](#); counting electric pulses [H03K](#); counting characters, words or messages in switching networks for transmission of digital information [H04L 12/08](#))

### NOTE

This subclass covers:

- stepping or continuously-moving mechanical counters operated through one or more inputs applied to the lowest order mechanically or electrically;
- counting systems involving applications of either mechanical, electrical, or electronic counters.

### 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>Design features of general application</b>	1/101	. . . {by electro-optical means}
1/02	. Housing (for measuring instruments in general <a href="#">G01D</a> )	1/102	. . . {by magnetic or electromagnetic means}
1/022	. . {Plates}	1/104	. . . . {electromagnets, clicks}
1/024	. . . {Bearings}	1/105	. . . . . {electronic circuits for actuating the electromagnets}
1/026	. . {Connecting or supporting parts}	1/107	. . . . {electromotors}
1/028	. . {Arbors, drum fixing and adjusting means (arbor-fixing means <a href="#">F16C 17/08</a> )}	1/108	. . . {by electronic means}
1/04	. for driving the stage of lowest order (with variable ratio of drive <a href="#">G06M 1/38</a> )	1/12	. . by fluid means
1/041	. . {for drum-type indicating means}	1/123	. . . {by pneumatic means}
1/042	. . . {with click devices (electromagnetic driving means <a href="#">G06M 1/102</a> )}	1/126	. . . {by hydraulic means}
1/044	. . . {with escapements (electromagnetic driving means <a href="#">G06M 1/102</a> )}	1/14	. for transferring a condition from one stage to a higher stage (with variable ratio of transfer <a href="#">G06M 1/38</a> )
1/045	. . {for dial, pointer, or similar type indicating means}	1/143	. . {with drums}
1/047	. . {for arithmetical operations}	1/146	. . {with dials, pointers, or similar type indicating means}
1/048	. . {with switching means between two or more counting devices}	1/16	. . self-operating, e.g. by Geneva mechanism
1/06	. . producing continuous revolution of the stage, e.g. with gear train	1/163	. . . {with drums}
1/062	. . . {for drum type indicating means}	1/166	. . . {with dials, pointers or similar type indicating means}
1/064	. . . {for dial, pointer, or similar type indicating means}	1/18	. . requiring external operation, e.g. by electromagnetic force
1/066	. . . {for arithmetical operations}	1/183	. . . {with drums}
1/068	. . . {with switching means between two or more counting devices}	1/186	. . . {with dials, pointers, or similar type indicating means}
1/08	. for actuating the drive	1/20	. . specially adapted for denominations with unequal numbers in each stage, e.g. degrees and minutes of angle
1/083	. . {by mechanical means (counting of stacked objects <a href="#">G06M 9/00</a> )}	1/22	. for visual indication of the result of count on counting mechanisms, e.g. by window with magnifying lens
1/086	. . . {including barriers (counting of conveyed objects <a href="#">G06M 7/00</a> )}		
1/10	. . by electric or magnetic means		

<p>1/24 . . Drums; Dials; Pointers (for measuring instruments in general G01D; {for time measuring instruments G04B 19/00, including drums G04B 19/21, G04C 19/04; date indicating G04B 19/24})</p> <p>1/241 . . . {Drums}</p> <p>1/243 . . . . {Drums with presetting means}</p> <p>1/245 . . . {Dials; Pointers}</p> <p>1/246 . . . {Bands; Sheets}</p> <p>1/248 . . . {Discs}</p> <p>1/26 . . Aligning means</p> <p>1/27 . for representing the result of count in the form of electric signals, e.g. by sensing markings on the counter drum</p> <p>1/272 . . using photoelectric means</p> <p>1/274 . . using magnetic means; using Hall-effect devices</p> <p>1/276 . . using mechanically-actuated contacts</p> <p>1/28 . for zeroising or setting to a particular value</p> <p>1/283 . . {with drums}</p> <p>1/286 . . {with dials, pointers, or similar type indicating means}</p> <p>1/30 . . using heart-shaped or similar cams; using levers</p> <p>1/303 . . . {with drums}</p> <p>1/306 . . . {with dials, pointers, or similar type indicating means}</p> <p>1/32 . . . Actuating means, e.g. magnet, spring, weight</p> <p>1/323 . . . . {with drums}</p> <p>1/326 . . . . {with dials, pointers, or similar type indicating means}</p> <p>1/34 . . using reset shafts</p> <p>1/343 . . . {with drums}</p> <p>1/346 . . . {with dials, pointers, or similar type indicating means}</p> <p>1/36 . . . Actuating means, e.g. magnet, spring, weight</p> <p>1/363 . . . . {with drums}</p> <p>1/366 . . . . {with dials, pointers, or similar type indicating means}</p> <p>1/38 . for varying ratio of drive or transfer mechanism, e.g. by using alternative counting trains</p> <p>1/385 . . {differentials}</p> <p><b>3/00 Counters with additional facilities (generating electric pulses at random intervals H03K 3/84)</b></p> <p>3/02 . for performing an operation at a predetermined value of the count, e.g. arresting a machine {(G06M 3/04 takes precedence)}</p> <p>3/021 . . {with drums type indicating means}</p> <p>3/022 . . . {by subtracting}</p> <p>3/024 . . . {by adding}</p> <p>3/025 . . {with dial, pointer, or similar type indicating means}</p> <p>3/027 . . . {by subtracting}</p> <p>3/028 . . . {by adding}</p> <p>3/04 . . with an additional counter train operating in the reverse direction</p> <p>3/043 . . . {with drums}</p> <p>3/046 . . . {with dials, pointers, or similar type indicating means}</p> <p>3/06 . for printing or separately displaying result of count (display systems G09)</p> <p>3/062 . . {for printing}</p> <p>3/065 . . . {with drums}</p>	<p>3/067 . . . {with dials, pointers, or similar type indicating means}</p> <p>3/08 . for counting the input from several sources; for counting inputs of different amounts</p> <p>3/10 . for counting denominations with unequal numbers in each stage, e.g. degrees and minutes of angle (transfer mechanism therefor G06M 1/20)</p> <p>3/12 . for preventing incorrect actuation, e.g. for preventing falsification</p> <p>3/14 . for registering difference of positive and negative actuations</p> <p><b>Counting of objects (in machines for shaping metal without removing material B21C 51/00; in printing machines or presses B41F 33/02; in office copying machines B41L 39/02; of axles of rail vehicles B61L 1/16; in packaging machines B65B 65/08; of objects conveyed through a pipe or tube B65G 51/36; entry or exit registers G07C 9/00)</b></p> <p><b>7/00 Counting of objects carried by a conveyor</b></p> <p>7/02 . wherein objects ahead of the sensing element are separated to produce a distinct gap between successive objects</p> <p>7/04 . . Counting of piece goods, e.g. of boxes</p> <p>7/06 . . Counting of flat articles, e.g. of sheets of paper</p> <p>7/08 . wherein the direction of movement of the objects is changed at the station where they are sensed</p> <p>7/10 . . Counting of flat overlapped articles, e.g. of cards</p> <p><b>9/00 Counting of objects in a stack thereof</b></p> <p>9/02 . by using a rotating separator incorporating pneumatic suction nozzles</p> <p>9/025 . . {the rotation axis being substantially parallel to the stacking direction}</p> <p><b>11/00 Counting of objects distributed at random, e.g. on a surface</b></p> <p>11/02 . using an electron beam scanning a surface line by line, e.g. of blood cells on a substrate</p> <p>11/04 . . with provision for distinguishing between different sizes of objects (investigating particle size in general G01N 15/00)</p> <p><b>15/00 Counting of objects, not otherwise provided for</b></p> <hr/> <p><b>2207/00 Indexing scheme relating to counting of objects carried by a conveyor</b></p> <p>2207/02 . Counting of generally flat and overlapped articles, e.g. cards, newspapers</p>
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