

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### INSTRUMENTS

## G06 COMPUTING; 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.

### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:  
[G06M 15/00](#) covered by [G06M 1/00 - G06M 11/00](#)
2. 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>	1/086	. . . {including barriers (counting of conveyed objects <a href="#">G06M 7/00</a> )}
1/02	. Housing (for measuring instruments in general <a href="#">G01D</a> )	1/10	. . by electric or magnetic means
1/022	. . {Plates}	1/101	. . . {by electro-optical means}
1/024	. . . {Bearings}	1/102	. . . {by magnetic or electromagnetic means}
1/026	. . {Connecting or supporting parts}	1/104	. . . . {electromagnets, clicks}
1/028	. . {Arbors, drum fixing and adjusting means (arbor-fixing means <a href="#">F16C 17/08</a> )}	1/105	. . . . . {electronic circuits for actuating the electromagnets}
1/04	. for driving the stage of lowest order (with variable ratio of drive <a href="#">G06M 1/38</a> )	1/107	. . . . {electromotors}
1/041	. . {for drum-type indicating means}	1/108	. . . {by electronic means}
1/042	. . . {with click devices (electromagnetic driving means <a href="#">G06M 1/102</a> )}	1/12	. . by fluid means
1/044	. . . {with escapements (electromagnetic driving means <a href="#">G06M 1/102</a> )}	1/123	. . . {by pneumatic means}
1/045	. . {for dial, pointer, or similar type indicating means}	1/126	. . . {by hydraulic means}
1/047	. . {for arithmetical operations}	1/14	. for transferring a condition from one stage to a higher stage (with variable ratio of transfer <a href="#">G06M 1/38</a> )
1/048	. . {with switching means between two or more counting devices}	1/143	. . {with drums}
1/06	. . producing continuous revolution of the stage, e.g. with gear train	1/146	. . {with dials, pointers, or similar type indicating means}
1/062	. . . {for drum type indicating means}	1/16	. . self-operating, e.g. by Geneva mechanism
1/064	. . . {for dial, pointer, or similar type indicating means}	1/163	. . . {with drums}
1/066	. . . {for arithmetical operations}	1/166	. . . {with dials, pointers or similar type indicating means}
1/068	. . . {with switching means between two or more counting devices}	1/18	. . requiring external operation, e.g. by electromagnetic force
1/08	. for actuating the drive	1/183	. . . {with drums}
1/083	. . {by mechanical means (counting of stacked objects <a href="#">G06M 9/00</a> )}	1/186	. . . {with dials, pointers, or similar type indicating means}
		1/20	. . specially adapted for denominations with unequal numbers in each stage, e.g. degrees and minutes of angle

- 1/22 . . . for visual indication of the result of count on counting mechanisms, e.g. by window with magnifying lens
- 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](#)})
- 1/241 . . . {Drums}
- 1/243 . . . . {Drums with presetting means}
- 1/245 . . . {Dials; Pointers}
- 1/246 . . . {Bands; Sheets}
- 1/248 . . . {Discs}
- 1/26 . . . Aligning means
- 1/27 . . . for representing the result of count in the form of electric signals, e.g. by sensing markings on the counter drum
- 1/272 . . . using photoelectric means
- 1/274 . . . using magnetic means; using Hall-effect devices
- 1/276 . . . using mechanically-actuated contacts
- 1/28 . . . for zeroising or setting to a particular value
- 1/283 . . . {with drums}
- 1/286 . . . {with dials, pointers, or similar type indicating means}
- 1/30 . . . using heart-shaped or similar cams; using levers
- 1/303 . . . . {with drums}
- 1/306 . . . . {with dials, pointers, or similar type indicating means}
- 1/32 . . . . Actuating means, e.g. magnet, spring, weight
- 1/323 . . . . . {with drums}
- 1/326 . . . . . {with dials, pointers, or similar type indicating means}
- 1/34 . . . using reset shafts
- 1/343 . . . . {with drums}
- 1/346 . . . . {with dials, pointers, or similar type indicating means}
- 1/36 . . . . Actuating means, e.g. magnet, spring, weight
- 1/363 . . . . . {with drums}
- 1/366 . . . . . {with dials, pointers, or similar type indicating means}
- 1/38 . . . for varying ratio of drive or transfer mechanism, e.g. by using alternative counting trains
- 1/385 . . . {differentials}
- 3/00 Counters with additional facilities (generating electric pulses at random intervals [H03K 3/84](#))**
- 3/02 . . . for performing an operation at a predetermined value of the count, e.g. arresting a machine ([G06M 3/04](#) takes precedence)
- 3/021 . . . . {with drums type indicating means}
- 3/022 . . . . . {by subtracting}
- 3/024 . . . . . {by adding}
- 3/025 . . . . {with dial, pointer, or similar type indicating means}
- 3/027 . . . . . {by subtracting}
- 3/028 . . . . . {by adding}
- 3/04 . . . with an additional counter train operating in the reverse direction
- 3/043 . . . . {with drums}
- 3/046 . . . . {with dials, pointers, or similar type indicating means}
- 3/06 . . . for printing or separately displaying result of count ([display systems G09](#))
- 3/062 . . . {for printing}
- 3/065 . . . . {with drums}
- 3/067 . . . . {with dials, pointers, or similar type indicating means}
- 3/08 . . . for counting the input from several sources; for counting inputs of different amounts
- 3/10 . . . for counting denominations with unequal numbers in each stage, e.g. degrees and minutes of angle ([transfer mechanism therefor G06M 1/20](#))
- 3/12 . . . for preventing incorrect actuation, e.g. for preventing falsification
- 3/14 . . . for registering difference of positive and negative actuations
- 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](#))**
- 7/00 Counting of objects carried by a conveyor**
- 7/02 . . . wherein objects ahead of the sensing element are separated to produce a distinct gap between successive objects
- 7/04 . . . . Counting of piece goods, e.g. of boxes
- 7/06 . . . . Counting of flat articles, e.g. of sheets of paper
- 7/08 . . . wherein the direction of movement of the objects is changed at the station where they are sensed
- 7/10 . . . . Counting of flat overlapped articles, e.g. of cards
- 9/00 Counting of objects in a stack thereof**
- 9/02 . . . by using a rotating separator incorporating pneumatic suction nozzles
- 9/025 . . . {the rotation axis being substantially parallel to the stacking direction}
- 11/00 Counting of objects distributed at random, e.g. on a surface**
- 11/02 . . . using an electron beam scanning a surface line by line, e.g. of blood cells on a substrate
- 11/04 . . . with provision for distinguishing between different sizes of objects ([investigating particle size in general G01N 15/00](#))
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- 2207/00 Indexing scheme relating to counting of objects carried by a conveyor**
- 2207/02 . . . Counting of generally flat and overlapped articles, e.g. cards, newspapers