

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

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.

1/00	Design features of general application	1/14	• for transferring a condition from one stage to a higher stage (with variable ratio of transfer G06M 1/38)
1/02	• Housing	1/143	• {with drums}
1/022	• . . {Plates}	1/146	• {with dials, pointers, or similar type indicating means}
1/024	• . . . {Bearings}	1/16	• . self-operating, e.g. by Geneva mechanism
1/026	• . {Connecting or supporting parts}	1/163	• . . . {with drums}
1/028	• . {Arbors, drum fixing and adjusting means}	1/166	• . . . {with dials, pointers or similar type indicating means}
1/04	• for driving the stage of lowest order (with variable ratio of drive G06M 1/38)	1/18	• . requiring external operation, e.g. by electromagnetic force
1/041	• . {for drum-type indicating means}	1/183	• . . . {with drums}
1/042	• . . {with click devices (electromagnetic driving means G06M 1/102)}	1/186	• . . . {with dials, pointers, or similar type indicating means}
1/044	• . . . {with escapements (electromagnetic driving means G06M 1/102)}	1/20	• . specially adapted for denominations with unequal numbers in each stage, e.g. degrees and minutes of angle
1/045	• . {for dial, pointer, or similar type indicating means}	1/22	• for visual indication of the result of count on counting mechanisms, e.g. by window with magnifying lens
1/047	• . {for arithmetical operations}	1/24	• . Drums; Dials; Pointers
1/048	• . {with switching means between two or more counting devices}	1/241	• . . . {Drums}
1/06	• . producing continuous revolution of the stage, e.g. with gear train	1/243	• {Drums with presetting means}
1/062	• . . . {for drum type indicating means}	1/245	• . . . {Dials; Pointers}
1/064	• . . . {for dial, pointer, or similar type indicating means}	1/246	• . . . {Bands; Sheets}
1/066	• . . . {for arithmetical operations}	1/248	• . . . {Discs}
1/068	• . . . {with switching means between two or more counting devices}	1/26	• . Aligning means
1/08	• for actuating the drive	1/27	• for representing the result of count in the form of electric signals, e.g. by sensing markings on the counter drum
1/083	• . {by mechanical means}	1/272	• . using photoelectric means
1/086	• . . {including barriers}	1/274	• . using magnetic means; using Hall-effect devices
1/10	• . by electric or magnetic means	1/276	• . using mechanically-actuated contacts
1/101	• . . . {by electro-optical means}	1/28	• for zeroising or setting to a particular value
1/102	• . . . {by magnetic or electromagnetic means}	1/283	• . {with drums}
1/104	• {electromagnets, clicks}	1/286	• . {with dials, pointers, or similar type indicating means}
1/105	• {electronic circuits for actuating the electromagnets}	1/30	• . using heart-shaped or similar cams; using levers
1/107	• {electromotors}	1/303	• . . . {with drums}
1/108	• . . . {by electronic means}		
1/12	• . by fluid means		
1/123	• . . . {by pneumatic means}		
1/126	• . . . {by hydraulic means}		

- 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**
- 3/02 . . for performing an operation at a predetermined value of the count, e.g. arresting a machine
- 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
- 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
- 3/12 . . for preventing incorrect actuation, e.g. for preventing falsification
- 3/14 . . for registering difference of positive and negative actuations

Counting of objects

- 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
- 15/00 Counting of objects, not otherwise provided for**

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