

CPC COOPERATIVE PATENT CLASSIFICATION

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.

1/00	Design features of general application	1/143	. . {with drums }
1/02	. Housing (for measuring instruments in general G01D)	1/146	. . {with dials, pointers, or similar type indicating means }
1/022	. . {Plates }	1/16	. . self-operating, e.g. by Geneva mechanism
1/024	. . . {Bearings }	1/163	. . . {with drums }
1/026	. . {Connecting or supporting parts }	1/166	. . . {with dials, pointers or similar type indicating means }
1/028	. . {Arbors, drum fixing and adjusting means (arbor-fixing means F16C 17/08) }	1/18	. . requiring external operation, e.g. by electromagnetic force
1/04	. for driving the stage of lowest order (with variable ratio of drive G06M 1/38)	1/183	. . . {with drums }
1/041	. . {for drum-type indicating means }	1/186	. . . {with dials, pointers, or similar type indicating means }
1/042	. . . {with click devices (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
1/044	. . . {with escapements (electromagnetic driving means G06M 1/102) }	1/22	. for visual indication of the result of count on counting mechanisms, e.g. by window with magnifying lens
1/045	. . {for dial, pointer, or similar type indicating means }	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 })
1/047	. . {for arithmetical operations }	1/241	. . . {Drums }
1/048	. . {with switching means between two or more counting devices }	1/243	. . . . {Drums with presetting means }
1/06	. . producing continuous revolution of the stage, e.g. with gear train	1/245	. . . {Dials; Pointers }
1/062	. . . {for drum type indicating means }	1/246	. . . {Bands; Sheets }
1/064	. . . {for dial, pointer, or similar type indicating means }	1/248	. . . {Discs }
1/066	. . . {for arithmetical operations }	1/26	. . Aligning means
1/068	. . . {with switching means between two or more counting devices }	1/27	. for representing the result of count in the form of electric signals, e.g. by sensing markings on the counter drum
1/08	. for actuating the drive	1/272	. . using photoelectric means
1/083	. . {by mechanical means (counting of stacked objects G06M 9/00) }	1/274	. . using magnetic means; using Hall-effect devices
1/086	. . . {including barriers (counting of conveyed objects G06M 7/00) }	1/276	. . using mechanically-actuated contacts
1/10	. . by electric or magnetic means	1/28	. for zeroising or setting to a particular value
1/101	. . . {by electro-optical means }	1/283	. . {with drums }
1/102	. . . {by magnetic or electromagnetic means }	1/286	. . {with dials, pointers, or similar type indicating means }
1/104	. . . . {electromagnets, clicks }	1/30	. . using heart-shaped or similar cams; using levers
1/105	. . . . . {electronic circuits for actuating the electromagnets }	1/303	. . . {with drums }
1/107	. . . . . {electromotors }	1/306	. . . {with dials, pointers, or similar type indicating means }
1/108	. . . {by electronic means }	1/32	. . . Actuating means, e.g. magnet, spring, weight
1/12	. . by fluid means	1/323	. . . . {with drums }
1/123	. . . {by pneumatic means }	1/326	. . . . {with dials, pointers, or similar type indicating means }
1/126	. . . {by hydraulic means }		
1/14	. for transferring a condition from one stage to a higher stage (with variable ratio of transfer G06M 1/38)		

- 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
 - 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

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