

CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS (NOTES omitted)

INSTRUMENTS

G06 COMPUTING; CALCULATING OR 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.}

1/00	Design features of general application	1/101	. . . {by electro-optical means}
1/02	. Housing (for measuring instruments in general G01D)	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 F16C 17/08)}	1/108	. . . {by electronic means}
1/04	. for driving the stage of lowest order (with variable ratio of drive G06M 1/38)	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 G06M 1/102)}	1/126	. . . {by hydraulic means}
1/044	. . . {with escapements (electromagnetic driving means G06M 1/102)}	1/14	. for transferring a condition from one stage to a higher stage (with variable ratio of transfer G06M 1/38)
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 G06M 9/00)}	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 G06M 7/00)}		
1/10	. . by electric or magnetic means		

<p>1/24</p> <p>1/241</p> <p>1/243</p> <p>1/245</p> <p>1/246</p> <p>1/248</p> <p>1/26</p> <p>1/27</p> <p>1/272</p> <p>1/274</p> <p>1/276</p> <p>1/28</p> <p>1/283</p> <p>1/286</p> <p>1/30</p> <p>1/303</p> <p>1/306</p> <p>1/32</p> <p>1/323</p> <p>1/326</p> <p>1/34</p> <p>1/343</p> <p>1/346</p> <p>1/36</p> <p>1/363</p> <p>1/366</p> <p>1/38</p> <p>1/385</p> <p>3/00</p> <p>3/02</p> <p>3/021</p> <p>3/022</p> <p>3/024</p> <p>3/025</p> <p>3/027</p> <p>3/028</p> <p>3/04</p> <p>3/043</p> <p>3/046</p> <p>3/06</p> <p>3/062</p> <p>3/065</p>	<ul style="list-style-type: none"> . . 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}) . . . {Drums} {Drums with presetting means} . . . {Dials; Pointers} . . . {Bands; Sheets} . . . {Discs} . . Aligning means . for representing the result of count in the form of electric signals, e.g. by sensing markings on the counter drum . . using photoelectric means . . using magnetic means; using Hall-effect devices . . using mechanically-actuated contacts . for zeroising or setting to a particular value . . {with drums} . . {with dials, pointers, or similar type indicating means} . . using heart-shaped or similar cams; using levers . . . {with drums} . . . {with dials, pointers, or similar type indicating means} . . . Actuating means, e.g. magnet, spring, weight {with drums} {with dials, pointers, or similar type indicating means} . . using reset shafts . . . {with drums} . . . {with dials, pointers, or similar type indicating means} . . . Actuating means, e.g. magnet, spring, weight {with drums} {with dials, pointers, or similar type indicating means} . for varying ratio of drive or transfer mechanism, e.g. by using alternative counting trains . . {differentials} <p>Counters with additional facilities (generating electric pulses at random intervals H03K 3/84)</p> <ul style="list-style-type: none"> . for performing an operation at a predetermined value of the count, e.g. arresting a machine {(G06M 3/04 takes precedence)} . . {with drums type indicating means} . . . {by subtracting} . . . {by adding} . . {with dial, pointer, or similar type indicating means} . . . {by subtracting} . . . {by adding} . . with an additional counter train operating in the reverse direction . . . {with drums} . . . {with dials, pointers, or similar type indicating means} . for printing or separately displaying result of count (display systems G09) . . {for printing} . . . {with drums} 	<p>3/067</p> <p>3/08</p> <p>3/10</p> <p>3/12</p> <p>3/14</p> <p>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)</p> <p>7/00</p> <p>7/02</p> <p>7/04</p> <p>7/06</p> <p>7/08</p> <p>7/10</p> <p>9/00</p> <p>9/02</p> <p>9/025</p> <p>11/00</p> <p>11/02</p> <p>11/04</p> <p>15/00</p> <hr/> <p>2207/00</p> <p>2207/02</p>	<ul style="list-style-type: none"> . . . {with dials, pointers, or similar type indicating means} . for counting the input from several sources; for counting inputs of different amounts . for counting denominations with unequal numbers in each stage, e.g. degrees and minutes of angle (transfer mechanism therefor G06M 1/20) . for preventing incorrect actuation, e.g. for preventing falsification . for registering difference of positive and negative actuations <p>Counting of objects carried by a conveyor</p> <ul style="list-style-type: none"> . wherein objects ahead of the sensing element are separated to produce a distinct gap between successive objects . . Counting of piece goods, e.g. of boxes . . Counting of flat articles, e.g. of sheets of paper . wherein the direction of movement of the objects is changed at the station where they are sensed . . Counting of flat overlapped articles, e.g. of cards <p>Counting of objects in a stack thereof</p> <ul style="list-style-type: none"> . by using a rotating separator incorporating pneumatic suction nozzles . . {the rotation axis being substantially parallel to the stacking direction} <p>Counting of objects distributed at random, e.g. on a surface</p> <ul style="list-style-type: none"> . using an electron beam scanning a surface line by line, e.g. of blood cells on a substrate . . with provision for distinguishing between different sizes of objects (investigating particle size in general G01N 15/00) <p>Counting of objects, not otherwise provided for</p> <hr/> <p>Indexing scheme relating to counting of objects carried by a conveyor</p> <ul style="list-style-type: none"> . Counting of generally flat and overlapped articles, e.g. cards, newspapers
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