### CPC - COOPERATIVE PATENT CLASSIFICATION

**G** PHYSICS

(NOTES omitted)

**G01** MEASURING; TESTING

(NOTES omitted)

**G01G** WEIGHING (sorting by weighing B07C 5/16)

**NOTE**

Attention is drawn to the Notes following the title of class G01.

**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.

<table>
<thead>
<tr>
<th>Subclass</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/00</td>
<td>Weighing apparatus involving the use of a counterweight or other counterbalancing mass</td>
</tr>
<tr>
<td>1/02</td>
<td>Pendulum-weight apparatus</td>
</tr>
<tr>
<td>1/025</td>
<td>[with variable cam radius or variable counterpoise pendulum]</td>
</tr>
<tr>
<td>1/04</td>
<td>the pendulum having a fixed pivot axis</td>
</tr>
<tr>
<td>1/06</td>
<td>with a plurality of pendulums</td>
</tr>
<tr>
<td>1/08</td>
<td>the pendulum having a moving pivot axis, e.g. a floating pendulum</td>
</tr>
<tr>
<td>1/10</td>
<td>with a plurality of pendulums</td>
</tr>
<tr>
<td>1/12</td>
<td>Constructional arrangements for obtaining equal indicative divisions</td>
</tr>
<tr>
<td>1/14</td>
<td>Temperature compensating arrangements</td>
</tr>
<tr>
<td>1/16</td>
<td>Means for correcting for obliquity of mounting</td>
</tr>
<tr>
<td>1/18</td>
<td>Balances involving the use of a pivoted beam, i.e. beam balances</td>
</tr>
<tr>
<td>1/185</td>
<td>[Two draft weighing apparatus, e.g. tandem scales systems]</td>
</tr>
<tr>
<td>1/20</td>
<td>Beam balances having the pans carried below the beam, and for use with separate counterweights</td>
</tr>
<tr>
<td>1/22</td>
<td>for precision weighing</td>
</tr>
<tr>
<td>1/24</td>
<td>Platform-type scales, i.e. having the pans carried above the beam</td>
</tr>
<tr>
<td>1/243</td>
<td>[having pans carried above the beam]</td>
</tr>
<tr>
<td>1/246</td>
<td>[of the parallelogram type]</td>
</tr>
<tr>
<td>1/26</td>
<td>with associated counterweight or set of counterweights</td>
</tr>
<tr>
<td>1/28</td>
<td>involving means for automatically lifting counterweights corresponding to the load</td>
</tr>
<tr>
<td>1/29</td>
<td>with electrical or electromechanical control means</td>
</tr>
<tr>
<td>1/30</td>
<td>wherein the counterweight is in the form of a chain</td>
</tr>
<tr>
<td>1/32</td>
<td>wherein the counterweights are in the form of rider-weights</td>
</tr>
<tr>
<td>1/34</td>
<td>involving a fixed counterweight, with poise-weights selectively added to the load side</td>
</tr>
<tr>
<td>1/36</td>
<td>wherein the counterweights are slideable along the beam, e.g. steelyards</td>
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<tr>
<td>1/38</td>
<td>with automatically-driven counterweight</td>
</tr>
<tr>
<td>1/40</td>
<td>specially adapted for weighing by substitution</td>
</tr>
<tr>
<td>1/42</td>
<td>Temperature compensating arrangements</td>
</tr>
<tr>
<td>3/00</td>
<td>Weighing apparatus characterised by the use of elastically-deformable members, e.g. spring balances</td>
</tr>
<tr>
<td>3/02</td>
<td>wherein the weighing element is in the form of a helical spring</td>
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<tr>
<td>3/04</td>
<td>using a plurality of springs</td>
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<tr>
<td>3/06</td>
<td>wherein the weighing element is in the form of a spiral spring</td>
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<tr>
<td>3/08</td>
<td>wherein the weighing element is in the form of a leaf spring</td>
</tr>
<tr>
<td>3/10</td>
<td>wherein the torsional deformation of a weighing element is measured</td>
</tr>
<tr>
<td>3/12</td>
<td>wherein the weighing element is in the form of a solid body stressed by pressure or tension during weighing</td>
</tr>
<tr>
<td>3/125</td>
<td>[wherein the weighing element is an optical member]</td>
</tr>
<tr>
<td>3/13</td>
<td>having piezo-electric or piezo-resistive properties</td>
</tr>
<tr>
<td>3/14</td>
<td>measuring variations of electrical resistance (G01G 3/13 takes precedence)</td>
</tr>
<tr>
<td>3/1402</td>
<td>[Special supports with preselected places to mount the resistance strain gauges; Mounting of supports]</td>
</tr>
<tr>
<td>3/1404</td>
<td>[combined with means to connect the strain gauges on electrical bridges]</td>
</tr>
<tr>
<td>3/1406</td>
<td>[combined with special measuring circuits]</td>
</tr>
<tr>
<td>3/1408</td>
<td>[the supports being of the column type, e.g. cylindrical]</td>
</tr>
<tr>
<td>3/141</td>
<td>[the supports being disc or ring shaped]</td>
</tr>
<tr>
<td>3/1412</td>
<td>[the supports being parallelogram shaped]</td>
</tr>
<tr>
<td>3/1414</td>
<td>[Arrangements for correcting or for compensating for unwanted effects]</td>
</tr>
<tr>
<td>3/1416</td>
<td>[for non-linearity]</td>
</tr>
<tr>
<td>3/1418</td>
<td>[for temperature variations]</td>
</tr>
<tr>
<td>3/142</td>
<td>Circuits specially adapted therefor</td>
</tr>
<tr>
<td>3/145</td>
<td>involving comparison with a reference value (G01G 3/147 takes precedence)</td>
</tr>
<tr>
<td>3/147</td>
<td>involving digital counting</td>
</tr>
<tr>
<td>3/15</td>
<td>measuring variations of magnetic properties</td>
</tr>
</tbody>
</table>
Apparatus for weighing a continuous stream of weight not otherwise provided for

Methods or apparatus for the determination of weight not otherwise provided for

Apparatus for weighing a continuous stream of material during flow; Conveyor belt weighers

13/00 Weighing apparatus with automatic feed or discharge for weighing-out batches of material (for weighing a continuous stream G01G 11/00; check-weighing G01G 15/00; for fluids G01G 17/04; apportioning by weight materials to be mixed G01G 19/22; combinatorial weighing G01G 19/387)

13/003 [Details; specially adapted accessories (details of weighing apparatus in general G01G 21/00; auxiliary devices for weighing apparatus in general G01G 23/00)]

13/006 [Container supply or discharge mechanism (means for automatic loading or discharging G01G 13/02; G01G 13/16, G01G 13/24)]

13/02 Means for automatically loading weigh pans or other receptacles, e.g. disposable containers, under control of the weighing mechanism

13/022 [Material feeding devices (G01G 13/04 - G01G 13/14 take precedence)]

13/024 [by gravity]

13/026 [by mechanical conveying means, e.g. belt or vibratory conveyor]

13/028 [by pneumatic carrying means]

13/04 [involving dribble-feed means controlled by the weighing mechanism to top up the receptacle to the target weight]

13/06 wherein the main feed is effected by gravity from a hopper or chute

13/08 wherein the main feed is effected by mechanical conveying means, e.g. by belt conveyors, by vibratory conveyors

13/10 wherein the main feed is effected by pneumatic conveying means, e.g. by fluidised feed of granular material

13/12 Arrangements for compensating for material suspended at cut-off, i.e. for material which is still falling from the feeder when the weigher stops the feeder

13/14 Arrangements for determination of, or compensation for, the tare weight of an unloaded container, e.g. of a disposable container

13/16 Means for automatically discharging weigh receptacles under control of the weighing mechanism

13/18 by valves or flaps in the container bottom

13/20 by screw conveyors in the weigh receptacle

13/22 by tilting or rotating the weigh receptacle

13/24 Weighing mechanism control arrangements for automatic feed or discharge

13/241 [Bulk-final weighing apparatus, e.g. rough weighing balance combined with separate fine weighing balance]

13/242 [Twin weighing apparatus; weighing apparatus using single load carrier and a plurality of weigh pans coupled alternately with the load carrier; weighing apparatus with two or more alternatively used weighing devices]

13/243 [using a single load carrier]

13/244 [with a single weighing receptacle divided into two or more alternatively used sections]

13/245 [the weighing receptacles being rockable or oscillating]

13/246 [the weighing apparatus being rotatable]
involving comparison with a reference value (G01G 13/29 takes precedence ; electric measuring arrangements involving comparison with a reference value G01R 17/00))

13/2851 . . . . . . . [for controlling automatic loading of weigh pans or other receptacles (G01G 13/29 takes precedence)]

13/2852 . . . . . . . [involving dribble-feed means controlled by the weighing mechanism to top up the receptacle to the target weight]

13/2853 . . . . . . . [wherein the main feed is effected by gravity from a hopper or chute]

13/2855 . . . . . . . [wherein the main feed is effected by mechanical conveying means, e.g. by belt conveyors, by vibratory conveyors]

13/2856 . . . . . . . [wherein the main feed is effected by pneumatic conveying means, e.g. by fluidised feed of granular material]

13/2857 . . . . . . . [Arrangements for compensating for material suspended at cut-off, i.e. for material which is still falling from the feeder when the weigher stops the feeder]

13/2858 . . . . . . . [Arrangements for the determination of, or compensation for, the tare weight of an unloaded container, e.g. of a disposable container]

13/29 . . . . . . . involving digital counting

13/2906 . . . . . . . [for controlling automatic loading of weigh pans or other receptacles]

13/2912 . . . . . . . [involving dribble-feed means controlled by the weighing mechanism to top up the receptacle to the target weight]

13/2918 . . . . . . . [wherein the main feed is effected by gravity from a hopper or chute]

13/2925 . . . . . . . [wherein the main feed is effected by mechanical means, e.g. by belt conveyors, by vibratory conveyors]

13/2931 . . . . . . . [wherein the main feed is effected by pneumatic conveying means, e.g. by fluidised feed of granular material]

13/2937 . . . . . . . [Arrangements for compensating for material suspended at cut-off, i.e. for material which is still falling from the feeder when the weigher stops the feeder]

13/2943 . . . . . . . [Arrangements for determination of, or compensation for, the tare weight of an unloaded container, e.g. of a disposable container]

13/295 . . . . . . . for controlling automatic loading of the receptacle [(G01G 13/285, G01G 13/29 take precedence)]

13/2951 . . . . . . . [involving dribble-feed means controlled by the weighing mechanism to top up the receptacle to the target weight]

13/2952 . . . . . . . [wherein the main feed is effected by gravity from a hopper or chute]

13/2954 . . . . . . . [wherein the main feed is effected by mechanical conveying means, e.g. by belt conveyors, by vibratory conveyors]

13/2955 . . . . . . . [wherein the main feed is effected by pneumatic conveying means, e.g. by fluidised feed of granular material]

13/2957 . . . . . . . [Arrangements for compensating for material suspended at cut-off, i.e. for material which is still falling from the feeder when the weigher stops the feeder]

13/2958 . . . . . . . [Arrangements for the determination of, or compensation for, the tare weight of an unloaded container, e.g. a disposable container]

13/30 . . . . . . . involving limit switches or position-sensing switches

13/32 . . . . . . . involving photoelectric devices

13/34 . . . . . . . involving mechanical linkage motivated by weighing mechanism

15/00 Arrangements for check-weighing of materials dispensed into removable containers (packaging aspects B65B; electric measuring arrangements involving comparison with a reference value G01R 17/00))

15/001 . . . . . . . [Volumetric pre-dispensing to an estimated weight; Gravimetric make-up device for target device]

2015/002 . . . . . . . [using electrical, electromechanical or electronic means]

2015/003 . . . . . . . [involving digital counting]

2015/005 . . . . . . . [involving comparison with reference value]

15/006 . . . . . . . [using electrical, electromechanical, or electronic means not covered by G01G 15/001, G01G 15/02, G01G 15/04]

2015/007 . . . . . . . [involving digital counting]

2015/008 . . . . . . . [involving comparison with a reference value]

15/02 . . . . . . . with provision for adding or removing a make-up quantity of material to obtain the desired net weight (dribble-feed means for automatic batch-weighers G01G 13/04)

2015/022 . . . . . . . [using electrical, electromechanical or electronic means]

2015/025 . . . . . . . [involving digital counting]

2015/027 . . . . . . . [involving comparison with a reference value]

15/04 . . . . . . . with provision for adding or removing a make-up quantity of material to obtain the desired gross weight (dribble-feed means for automatic batch-weighers G01G 13/04)

2015/042 . . . . . . . [using electrical, electromechanical or electronic means]

2015/045 . . . . . . . [involving digital counting]

2015/047 . . . . . . . [involving comparison with a reference value]

17/00 Apparatus for or methods of weighing material of special form or property (determining weight by measuring volume G01F)

17/02 . . . . . . . for weighing material of filamentary or sheet form

17/04 . . . . . . . for weighing fluids, e.g. gases, pastes

17/06 . . . . . . . having means for controlling the supply or discharge

17/08 . . . . . . . for weighing livestock
19/00 Weighing apparatus or methods adapted for special groups [electric measuring arrangements involving comparison with a reference value G01R 17/00]

19/002 . . [for postal parcels and letters]
19/005 . . [with electric or electronic computing means]
19/007 . . [fractioning a determined weight of material in several equal parts]
19/02 . . for weighing wheeled or rolling bodies, e.g. vehicles
19/021 . . [having electrical weight-sensitive devices (G01G 19/04 - G01G 19/07 take precedence)]
19/022 . . [for weighing wheeled or rolling bodies in motion (G01G 19/045 takes precedence)]
19/024 . . [using electrical weight-sensitive devices]
19/025 . . [wheel-load scales]
19/027 . . [using electrical weight-sensitive devices]
19/028 . . [combined with shock-absorbing devices (shock-absorbing arrangements for bearings G01G 21/02; means for damping oscillations G01G 23/06; shock-absorbers per se F16F)]

19/03 . . for weighing during motion (G01G 19/04, G01G 19/07 take precedence) [check weighing of materials dispensed into removable containers G01G 15/00; weighing a continuous stream of material during flow G01G 11/00; G01G 19/02, e.g. G01G 19/045, take precedence]

19/035 . . [using electrical weight-sensitive devices]
19/04 . . for weighing railway vehicles
19/042 . . [having electrical weight-sensitive devices]
19/045 . . [for weighing railway vehicles in motion]
19/047 . . . [using electrical weight-sensitive devices]
19/06 . . . on overhead rails
19/07 . . . for weighing aircraft
19/08 . . . for incorporation in vehicles
19/083 . . . [lift truck scale]
19/086 . . . [wherein the vehicle mass is dynamically estimated]
19/10 . . having fluid weight-sensitive devices
19/12 . . having electrical weight-sensitive devices
19/14 . . for weighing suspended loads (G01G 3/00 takes precedence; incorporation of weighing devices in cranes B66C 1/40; B66C 13/16)
19/16 . . having fluid weight-sensitive devices
19/18 . . having electrical weight-sensitive devices
19/20 . . for weighing unbalanced loads
19/22 . . for apportioning materials by weighing prior to mixing them (ratio regulation G05D 11/00)
19/24 . . using a single weighing apparatus
19/26 . . . associated with two or more counterweighted beams
19/28 . . . having fluid weight-sensitive devices
19/30 . . . having electrical weight-sensitive devices
19/303 . . . . [involving digital counting]
19/306 . . . . [involving comparison with a reference value]
19/32 . . . using two or more weighing apparatus
19/34 . . . with electrical control means
19/343 . . . [involving digital counting]
19/346 . . . [involving comparison with a reference value]
19/36 . . . with mechanical control means
19/38 . . . programme controlled, e.g. by perforated tape (programme control in general G05B 19/00)

19/382 . . . . [involving digital counting]
19/384 . . . . [involving comparison with a reference value]
19/387 . . . for combinatorial weighing, i.e. selecting a combination of articles whose total weight or number is closest to a desired value
19/393 . . . using two or more weighing units
19/40 . . with provisions for indicating, recording, or computing price or other quantities dependent on the weight (indicating means for weighing apparatus G01G 23/18; recording means for weighing apparatus G01G 23/18; computers in general G06)
19/41 . . using mechanical computing means
19/413 . . using electromechanical or electronic computing means
19/414 . . . . using electronic computing means only
19/4142 . . . . [for controlling activation of safety devices, e.g. airbag systems (electrical circuits for triggering safety arrangements in case of vehicle accidents B60R 21/015)]
19/4144 . . . . [for controlling weight of goods in commercial establishments, e.g. supermarket, P.O.S. systems]
19/4146 . . . . [for controlling caloric intake, e.g. diet control]
19/4148 . . . . [for controlling postal rate in articles to be mailed (franking apparatus with means for computing G07B 17/02)]
19/415 . . . . combined with recording means
19/417 . . . . with provision for checking computing part of balance
19/42 . . . . for counting by weighing (G01G 19/387 takes precedence)
19/44 . . . . for weighing persons
19/445 . . . . [in a horizontal position]
19/46 . . . . Spring balances specially adapted for this purpose
19/48 . . . . Pendulum balances specially adapted for this purpose
19/50 . . . . having additional measuring devices, e.g. for height
19/52 . . Weighing apparatus combined with other objects, e.g. furniture (with walking sticks A45B 3/08)
19/54 . . . . combined with writing implements or paper-knives
19/56 . . . . combined with handles of tools or household implements
19/58 . . . . combined with handles of suit-cases or trunks
19/60 . . . . combined with fishing equipment, e.g. with fishing rods
19/62 . . . . Over or under weighing apparatus
19/64 . . . . Percentage-indicating weighing apparatus, i.e. for expressing the weight as a percentage of a predetermined or initial weight

21/00 Details of weighing apparatus
21/02 . . Arrangements of bearings (bearings per se F16C)
21/022 . . [of tapes or ribbons]
21/025 . . [using a combination of knife-edge and ball or roller bearings]
21/027 . . [Hydraulic or pneumatic bearings]
21/04 . . of knife-edge bearings
21/06 . . of ball or roller bearings
21/07 . . of flexure-plate bearings
21/08 . . Bearing mountings or adjusting means therefor
Means for preventing contamination by dust

Frames, Housings

Holders for the reception of weights

Counterweights; Poise-weights; Sets of weights; Holders for the reception of weights

Means for preventing derangement

Absorbers (shock absorbers per se)

Floating suspensions; Arrangements of shock absorbers

Mean for damping oscillations, e.g. of weigh beams

Devices for preventing oscillation due to movement of the load

Indicating weight by mechanical means

Drive for the indicating member, e.g. mechanical amplifiers

Indicating the weight by optical projection means

Indicating the weight by electrical means, e.g. electrically operated

Indicating weight by mechanical means

Indicating weight by magnetic means

Indicating weight by optical means

Indicating weight by photographic recording

Indicating weight by electrical means, e.g. using photoelectric cells

Indicating weight by mechanical means

Indicating weight by optical means

Indicating weight by photographic recording

Indicating weight by electrical means, e.g. using photoelectric cells

Indicating weight by magnetic means
Devices preventing recording until the weighing mechanism has come to rest

Temperature-compensating arrangements (G01G 1/14, G01G 1/42, G01G 3/18 take precedence)