Cooperative Patent Classification

G PHYSICS

G01 MEASURING; TESTING

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.

1/00 Weighing apparatus involving the use of a counterweight or other counterbalancing mass

1/02 . . Pendulum-weight apparatus

1/025 . . (with variable cam radius or variable counterpoise pendulum)

1/04 . . the pendulum having a fixed pivot axis

1/06 . . with a plurality of pendulums

1/08 . . the pendulum having a moving pivot axis, e.g. a floating pendulum

1/10 . . with a plurality of pendulums

1/12 . . Constructional arrangements for obtaining equal indicative divisions

1/14 . . Temperature compensating arrangements

1/16 . . Means for correcting for obliquity of mounting

1/18 . . Balances involving the use of a pivoted beam, i.e. beam balances

1/185 . . [Two draft weighing apparatus, e.g. tandem scales systems]

1/20 . . Beam balances having the pans carried below the beam, and for use with separate counterweights

1/22 . . for precision weighing

1/24 . . Platform-type scales, i.e. having the pans carried above the beam

1/243 . . [having pans carried above the beam]

1/246 . . . . [of the parallelogram type]

1/26 . . with associated counterweight or set of counterweights

1/28 . . involving means for automatically lifting counterweights corresponding to the load

1/29 . . with electrical or electromechanical control means

1/30 . . wherein the counterweight is in the form of a chain

1/32 . . wherein the counterweights are in the form of rider-weights

1/34 . . involving a fixed counterweight, with poise-weights selectively added to the load side

1/36 . . wherein the counterweights are slideable along the beam, e.g. steelyards

1/38 . . . . with automatically-driven counterweight

1/40 . . . specially adapted for weighing by substitution

1/42 . . . Temperature compensating arrangements

3/00 Weighing apparatus characterised by the use of elastically-deformable members, e.g. spring balances

3/02 . . wherein the weighing element is in the form of a helical spring

3/04 . . using a plurality of springs

3/06 . . wherein the weighing element is in the form of a spiral spring

3/08 . . wherein the weighing element is in the form of a leaf spring

3/10 . . wherein the torsional deformation of a weighing element is measured

3/12 . . wherein the weighing element is in the form of a solid body stressed by pressure or tension during weighing

3/125 . . [wherein the weighing element is an optical member]

3/13 . . having piezo-electric or piezo-resistive properties

3/14 . . measuring variations of electrical resistance

3/1402 . . [Special supports with preselected places to mount the resistance strain gauges; Mounting of supports]

3/1404 . . . . [combined with means to connect the strain gauges on electrical bridges]

3/1406 . . . . [combined with special measuring circuits]

3/1408 . . . . [the supports being of the column type, e.g. cylindric]

3/141 . . . . [the supports being disc or ring shaped]

3/1412 . . . . [the supports being parallelogram shaped]

3/1414 . . . . [Arrangements for correcting or for compensating for unwanted effects]

3/1416 . . . . [for non-linearity]

3/1418 . . . . [for temperature variations]

3/142 . . . . Circuits specially adapted therefor

3/145 . . . . involving comparison with a reference value

3/147 . . . . involving digital counting

3/15 . . . measuring variations of magnetic properties
G01G

3/16 . . measuring variations of frequency of oscillations of the body
3/165 . . . [Constructional details]
3/18 . . Temperature-compensating arrangements

5/00 Weighing apparatus wherein the balancing is affected by fluid action
5/003 . . [load-cell construction or mountings]
5/006 . . [with pneumatic means]
5/02 . . with a float or other member variably immersed in liquid
5/04 . . with means for measuring the pressure imposed by the load on a liquid (pressure gauges per se G01L)
5/045 . . [combined with means for totalising the pressure imposed by several load-cells]
5/06 . . with electrostatic indicating means

7/00 Weighing apparatus wherein the balancing is affected by magnetic, electromagnetic, or electrostatic action, or by means not provided for in the preceding groups
7/02 . . by electromagnetic action
7/04 . . with means for regulating the current to solenoids
7/045 . . . [having a PID control system]
7/06 . . by electrostatic action

9/00 Methods or apparatus for the determination of weight not otherwise provided for
9/005 . . [using radiations, e.g. radioactive (analysing materials by the use of wave or particle radiation G01N 23/00)]

11/00 Apparatus for weighing a continuous stream of material during flow; Conveyor belt weighers
11/003 . . [Details; specially adapted accessories (details of weighing apparatus in general G01G 21/00; auxiliary devices for weighing apparatus in general G01G 23/00)]
11/006 . . [Special taring or checking devices therefor (devices for determining tare weight in general G01G 23/14)]
11/02 . . having mechanical weight-sensitive devices
11/025 . . . [combined with totalising or integrating devices]
11/04 . . having electrical weight-sensitive devices
11/043 . . . [combined with totalising or integrating devices]
11/046 . . . . [involving digital counting]
11/06 . . having fluid weight-sensitive devices
11/065 . . . [combined with totalising or integrating devices]
11/08 . . having means for controlling the rate of feed or discharge (regulation of flow of fluent material G05D)
11/083 . . . [of the weight-belt or weigh-auger type (G01G 11/10, G01G 11/12 take precedence)]
11/086 . . . [of the loss-in-weight feeding type]
11/10 . . . by controlling the height of the material on the belt
11/12 . . . by controlling the speed of the belt
11/14 . . . using totalising or integrating devices (G01G 11/025, G01G 11/043, G01G 11/046 and G01G 11/065 take precedence) [totalising or integrating devices per se G06]
11/16 . . . being electrical or electronic means
11/18 . . . using digital counting
11/20 . . . being mechanical means

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]
receptacle is used to control loading or discharge of the material involving variation of an electrical variable which provides a predetermined quantity is present}

13/285 . . . . . . . [for controlling automatic loading of weigh pans or other receptacles (G01G 13/29 takes precedence)]

13/2851 . . . . . . . [involving digital counting]

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 takes 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]

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]
Weighing apparatus or methods adapted for special groups

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19/00</td>
<td>Electric measuring arrangements involving comparison with a reference value (G01R 17/00)</td>
</tr>
<tr>
<td>19/002</td>
<td>for postal parcels and letters</td>
</tr>
<tr>
<td>19/005</td>
<td>with electric or electronic computing means</td>
</tr>
<tr>
<td>19/007</td>
<td>fractioning a determined weight of material in several equal parts</td>
</tr>
<tr>
<td>19/02</td>
<td>for weighing wheeled or rolling bodies, e.g. vehicles</td>
</tr>
<tr>
<td>19/021</td>
<td>having electrical weight-sensitive devices (G01G 19/04 - G01G 19/07 take precedence)</td>
</tr>
<tr>
<td>19/022</td>
<td>for weighing wheeled or rolling bodies in motion (G01G 19/045 takes precedence)</td>
</tr>
<tr>
<td>19/024</td>
<td>using electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/025</td>
<td>wheel-load scales</td>
</tr>
<tr>
<td>19/027</td>
<td>using electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/028</td>
<td>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)</td>
</tr>
<tr>
<td>19/03</td>
<td>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 19/022, G01G 19/045 take precedence]</td>
</tr>
<tr>
<td>19/035</td>
<td>using electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/04</td>
<td>for weighing railway vehicles</td>
</tr>
<tr>
<td>19/042</td>
<td>having electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/045</td>
<td>for weighing railway vehicles in motion</td>
</tr>
<tr>
<td>19/047</td>
<td>using electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/06</td>
<td>on overhead rails</td>
</tr>
<tr>
<td>19/07</td>
<td>for weighing aircraft</td>
</tr>
<tr>
<td>19/08</td>
<td>for incorporation in vehicles</td>
</tr>
<tr>
<td>19/083</td>
<td>lift truck scale</td>
</tr>
<tr>
<td>19/086</td>
<td>wherein the vehicle mass is dynamically estimated</td>
</tr>
<tr>
<td>19/10</td>
<td>having fluid weight-sensitive devices</td>
</tr>
<tr>
<td>19/12</td>
<td>having electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/14</td>
<td>for weighing suspended loads (G01G 3/00 takes precedence; incorporation of weighing devices in cranes B66C 1/40, B66C 13/16)</td>
</tr>
<tr>
<td>19/16</td>
<td>having fluid weight-sensitive devices</td>
</tr>
<tr>
<td>19/18</td>
<td>having electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/20</td>
<td>for weighing unbalanced loads</td>
</tr>
<tr>
<td>19/22</td>
<td>for apportioning materials by weighing prior to mixing them (ratio regulation G05D 11/00)</td>
</tr>
<tr>
<td>19/24</td>
<td>using a single weighing apparatus</td>
</tr>
<tr>
<td>19/26</td>
<td>associated with two or more counterweighted beams</td>
</tr>
<tr>
<td>19/28</td>
<td>having fluid weight-sensitive devices</td>
</tr>
<tr>
<td>19/30</td>
<td>having electrical weight-sensitive devices</td>
</tr>
<tr>
<td>19/303</td>
<td>involving digital counting</td>
</tr>
<tr>
<td>19/306</td>
<td>involving comparison with a reference value</td>
</tr>
<tr>
<td>19/32</td>
<td>using two or more weighing apparatus</td>
</tr>
<tr>
<td>19/34</td>
<td>with electrical control means</td>
</tr>
<tr>
<td>19/343</td>
<td>involving digital counting</td>
</tr>
<tr>
<td>19/346</td>
<td>involving comparison with a reference value</td>
</tr>
<tr>
<td>19/36</td>
<td>with mechanical control means</td>
</tr>
<tr>
<td>19/38</td>
<td>programme controlled, e.g. by perforated tape (programme control in general G05B 19/00)</td>
</tr>
<tr>
<td>19/382</td>
<td>involving digital counting</td>
</tr>
<tr>
<td>19/384</td>
<td>involving comparison with a reference value</td>
</tr>
<tr>
<td>19/387</td>
<td>for combinatorial weighing, i.e. selecting a combination of articles whose total weight or number is closest to a desired value</td>
</tr>
<tr>
<td>19/393</td>
<td>using two or more weighing units</td>
</tr>
<tr>
<td>19/40</td>
<td>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)</td>
</tr>
<tr>
<td>19/41</td>
<td>using mechanical computing means</td>
</tr>
<tr>
<td>19/413</td>
<td>using electromechanical or electronic computing means</td>
</tr>
<tr>
<td>19/414</td>
<td>using electronic computing means only</td>
</tr>
<tr>
<td>19/4142</td>
<td>for controlling activation of safety devices, e.g. airbag systems (electrical circuits for triggering safety arrangements in case of vehicle accidents B60R 21/015)</td>
</tr>
<tr>
<td>19/4144</td>
<td>for controlling weight of goods in commercial establishments, e.g. supermarket, P.O.S. systems</td>
</tr>
<tr>
<td>19/4146</td>
<td>for controlling caloric intake, e.g. diet control</td>
</tr>
<tr>
<td>19/4148</td>
<td>for controlling postal rate in articles to be mailed (franking apparatus with means for computing G07B 17/02)</td>
</tr>
<tr>
<td>19/415</td>
<td>combined with recording means</td>
</tr>
<tr>
<td>19/417</td>
<td>with provision for checking computing part of balance</td>
</tr>
<tr>
<td>19/42</td>
<td>for counting by weighing (G01G 19/387 takes precedence)</td>
</tr>
<tr>
<td>19/44</td>
<td>for weighing persons</td>
</tr>
<tr>
<td>19/445</td>
<td>in a horizontal position</td>
</tr>
<tr>
<td>19/46</td>
<td>Spring balances specially adapted for this purpose</td>
</tr>
<tr>
<td>19/48</td>
<td>Pendulum balances specially adapted for this purpose</td>
</tr>
<tr>
<td>19/50</td>
<td>having additional measuring devices, e.g. for height</td>
</tr>
<tr>
<td>19/52</td>
<td>Weighing apparatus combined with other objects, e.g. furniture (with walking sticks A45B 3/08)</td>
</tr>
<tr>
<td>19/54</td>
<td>combined with writing implements or paper-knives</td>
</tr>
<tr>
<td>19/56</td>
<td>combined with handles of tools or household implements</td>
</tr>
<tr>
<td>19/58</td>
<td>combined with handles of suit-cases or trunks</td>
</tr>
<tr>
<td>19/60</td>
<td>combined with fishing equipment, e.g. with fishing rods</td>
</tr>
<tr>
<td>19/62</td>
<td>Over or under weighing apparatus</td>
</tr>
<tr>
<td>19/64</td>
<td>Percentage-indicating weighing apparatus, i.e. for expressing the weight as a percentage of a predetermined or initial weight</td>
</tr>
</tbody>
</table>

**21/00 Details of weighing apparatus**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21/02</td>
<td>Arrangements of bearings (bearings per se F16C)</td>
</tr>
<tr>
<td>21/022</td>
<td>of tapes or ribbons</td>
</tr>
<tr>
<td>21/025</td>
<td>using a combination of knife-edge and ball or roller bearings</td>
</tr>
<tr>
<td>21/027</td>
<td>Hydraulic or pneumatic bearings</td>
</tr>
<tr>
<td>21/04</td>
<td>of knife-edge bearings</td>
</tr>
<tr>
<td>21/06</td>
<td>of ball or roller bearings</td>
</tr>
<tr>
<td>21/07</td>
<td>of flexure-plate bearings</td>
</tr>
<tr>
<td>21/08</td>
<td>Bearing mountings or adjusting means therefor</td>
</tr>
</tbody>
</table>
Auxiliary devices for weighing apparatus

21/00

21/085 . . . [of knife-edge bearings (knife-edge bearings G01G 21/04)]

21/10 . . . Floating suspensions; Arrangements of shock absorbers (shock absorbers per se F16F)

21/12 . . . Devices for preventing derangement

21/125 . . . [of knife-edge bearings (knife-edge bearings G01G 21/04)]

21/14 . . . Beams

21/16 . . . of composite construction; Connections between different beams

21/161 . . . [Connections between different beams]

21/162 . . . . . . [using knife-edge bearings (knife-edge bearings G01G 21/04)]

21/163 . . . . . . [using ball or roller bearings (ball or roller bearings G01G 21/04)]

21/165 . . . . . . [using tapes or ribbons (tapes or ribbons G01G 21/022)]

21/166 . . . . . . [using flexure plate fulcrums (flexure plate fulcrums G01G 21/07)]

21/167 . . . . . . [combined with different kinds of bearings]

21/168 . . . . . . [combined with knife-edge and ball or roller bearings]

21/18 . . . Link connections between the beam and the weigh pan

21/182 . . . . . [using knife-edge bearings (knife-edge bearings G01G 21/04)]

21/184 . . . . . [using ball or roller bearings (ball or roller bearings G01G 21/06)]

21/186 . . . . . . [using tapes or ribbons (tapes or ribbons G01G 21/022)]

21/188 . . . . . . [using flexure plate fulcrums (flexure plate fulcrums G01G 21/07)]

21/20 . . . for precision weighing apparatus

21/22 . . . Weigh pans or other weighing receptacles; Weighing platforms

21/23 . . . Support or suspension of weighing platforms (G01G 21/24 takes precedence)

21/235 . . . . . [using knife-edge bearings (knife-edge bearings G01G 21/04)]

21/24 . . . Guides or linkages for ensuring parallel motion of the weigh-pans

21/241 . . . . . . [combined with knife-edge bearings (knife-edge bearings G01G 21/04)]

21/242 . . . . . . [combined with ball or roller bearings (ball or roller bearings G01G 21/06)]

21/243 . . . . . . [combined with tapes or ribbons (tapes or ribbons G01G 21/022)]

21/244 . . . . . . [combined with flexure-plate fulcrums (flexure-plate fulcrums G01G 21/07)]

21/245 . . . . . . [combined with different kinds of bearings]

21/246 . . . . . . [combined with knife-edge and ball or roller bearings]

21/247 . . . . . . [combined with knife-edge bearings and tapes or ribbons]

21/248 . . . . . . [combined with knife-edge and flexure-plate fulcrums]

21/26 . . . Counterweights; Poise-weights; Sets of weights; Holders for the reception of weights

21/28 . . . Frames, Housings

21/283 . . . . . . [Details related to a user interface]

21/286 . . . . . . [with windshields]

21/30 . . . Means for preventing contamination by dust

23/00 . . . Auxiliary devices for weighing apparatus

23/002 . . . [Means for correcting for obliquity of mounting (for pendulum-weight apparatus G01G 1/16)]

23/005 . . . [Means for preventing overload]

23/007 . . . [Integrated arrangements for generating electrical power, e.g. solar cells]

23/01 . . . . . . Testing or calibrating of weighing apparatus

23/012 . . . . . . [with load cells comprising in-build calibration weights]

23/015 . . . . . . [by adjusting to the local gravitational acceleration]

23/017 . . . . . . [Securing calibration against fraud]

23/02 . . . . . . Relieving mechanisms; Arrestment mechanisms

23/04 . . . . . . for precision weighing apparatus

23/06 . . . . . . Means for damping oscillations, e.g. of weigh beams

23/08 . . . . . . by fluid means

23/10 . . . . . . by electric or magnetic means

23/12 . . . . . . specially adapted for preventing oscillations due to movement of the load

23/14 . . . . . . Devices for determining tare weight or for cancelling out the tare by zeroising, e.g. mechanically operated (in connection with automatic loading G01G 13/14)

23/16 . . . . . . electrically or magnetically operated

23/163 . . . . . . [involving digital counting]

23/166 . . . . . . [involving comparison with a reference value]

23/18 . . . . . . Indicating devices, e.g. for remote indication; Recording devices; Scales, e.g. graduated

23/20 . . . . . . Indicating weight by mechanical means

23/203 . . . . . . [with wheel-type counters]

23/206 . . . . . . [special graduated scales therefor (G01G 23/24 takes precedence)]

23/22 . . . . . . combined with price indicators

23/24 . . . . . . involving logarithmic scales

23/26 . . . . . . Drive for the indicating member, e.g. mechanical amplifiers

23/28 . . . . . . involving auxiliary or memory marks

23/30 . . . . . . with means for illuminating the scale

23/32 . . . . . . Indicating the weight by optical projection means

23/34 . . . . . . combined with price indicators

23/35 . . . . . . Indicating the weight by photographic recording

23/36 . . . . . . Indicating the weight by electrical means, e.g. using photoelectric cells

23/361 . . . . . . [using photoelectric cells]

23/362 . . . . . . [using electric contacts]

23/363 . . . . . . [using magnetic or capacitive contacts]

23/365 . . . . . . [involving comparison with a reference value (G01G 23/37 takes precedence)]

23/37 . . . . . . involving digital counting

23/3707 . . . . . . [using a microprocessor]

23/3714 . . . . . . [with feedback means]

23/3721 . . . . . . [with particular representation of the result, e.g. graphic]

23/3728 . . . . . . [with wireless means]

23/3735 . . . . . . [using a digital network]

23/3742 . . . . . . [using a mobile telephone network]

23/375 . . . . . . during the movement of a coded element

23/38 . . . . . . Recording and/or coding devices specially adapted for weighing apparatus (computers per se G06; disc converters in general G08C)

23/40 . . . . . . mechanically operated

23/42 . . . . . . electrically operated

23/44 . . . . . . Coding devices therefor
... 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)