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
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 therefore
3/145 . . involving comparison with a reference value
3/147 . . involving digital counting
3/15 . . measuring variations of magnetic properties
Weighing apparatus wherein the balancing is effected by fluid action

- with means for regulating the pressure imposed by the load on a liquid (pressure gauges per se G01L)
- with means for measuring the pressure imposed by several load-cells

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

- having a PID control system

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

- having mechanical weight-sensitive devices
- having electrical weight-sensitive devices
- having fluid weight-sensitive devices

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

- by valves or flaps in the container bottom
- by tilting or rotating the weigh receptacle

Weighing mechanism control arrangements for automatic feed or discharge

- (Bulk-final weighing apparatus, e.g. rough weighing balance combined with separate fine weighing balance)

- (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)

- { Material feeding devices (G01G 13/00, G01G 13/10 take precedence) }
- by gravity
- by mechanical conveying means, e.g. belt or vibratory conveyor
- by pneumatic conveying means
- involving dribble-feed means controlled by the weighing mechanism to top up the receptacle to the target weight

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

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

- Materials feeding devices (G01G 13/10, G01G 13/16, G01G 13/24)

Temperature-compensating arrangements

- with a PID control system

Apparatus for automatically discharging weigh pans or other receptacles, e.g. disposable containers, under control of the weighing mechanism

- Material feeding devices (G01G 13/00, G01G 13/10 take precedence)
receptacle is used to control loading or discharge of the involving variation of an electrical variable which involving fluid-pressure systems.

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.

Arrangements for the determination of, or compensation for, the tare weight of an unloaded container, e.g. of a disposable pans or other receptacles.

Arrangements for compensating for, the tare weight of an feeder when the weigher stops the feeder.

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Weighing apparatus or methods adapted for special purposes not provided for in the preceding groups [electric measuring arrangements involving comparison with a reference value G01R 17/00]

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G01G
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 fulcums (flexure plate fulcums 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 fulcums (flexure plate fulcums 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 23/24 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-pan
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 fulcums (flexure-plate fulcums 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 fulcums]
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)