

CPC COOPERATIVE PATENT CLASSIFICATION

G01G WEIGHING (sorting by weighing [B07C 5/16](#))

NOTE

Attention is drawn to the Notes following the title of class [G01](#).

- | | | | |
|-------------|--|-------------|---|
| 1/00 | Weighing apparatus involving the use of a counterweight or other counterbalancing mass | 3/12 | . wherein the weighing element is in the form of a solid body stressed by pressure or tension during weighing |
| 1/02 | . Pendulum-weight apparatus | 3/125 | . . {wherein the weighing element is an optical member} |
| 1/025 | . . {with variable cam radius or variable counterpoise pendulum} | 3/13 | . . having piezo-electric or piezo-resistive properties |
| 1/04 | . . The pendulum having a fixed pivot axis | 3/14 | . . measuring variations of electrical resistance (G01G 3/13 takes precedence) |
| 1/06 | . . . with a plurality of pendulums | 3/1402 | . . . {Special supports with preselected places to mount the resistance strain gauges; Mounting of supports} |
| 1/08 | . . The pendulum having a moving pivot axis, e.g. a floating pendulum | 3/1404 | {combined with means to connect the strain gauges on electrical bridges} |
| 1/10 | . . . with a plurality of pendulums | 3/1406 | {combined with special measuring circuits} |
| 1/12 | . . Constructional arrangements for obtaining equal indicative divisions | 3/1408 | {the supports being of the column type, e.g. cylindric} |
| 1/14 | . . Temperature compensating arrangements | 3/141 | {the supports being disc or ring shaped} |
| 1/16 | . . Means for correcting for obliquity of mounting | 3/1412 | {the supports being parallelogram shaped} |
| 1/18 | . Balances involving the use of a pivoted beam, i.e. beam balances | 3/1414 | {Arrangements for correcting or for compensating for unwanted effects} |
| 1/185 | . . {Two draft weighing apparatus, e.g. tandem scales systems} | 3/1416 | {for non-linearity} |
| 1/20 | . . Beam balances having the pans carried below the beam, and for use with separate counterweights | 3/1418 | {for temperature variations} |
| 1/22 | . . . for precision weighing | 3/142 | . . . Circuits specially adapted therefor |
| 1/24 | . . Platform-type scales, i.e. having the pans carried above the beam | 3/145 | involving comparison with a reference value (G01G 3/147 takes precedence) |
| 1/243 | . . . {having pans carried above the beam} | 3/147 | involving digital counting |
| 1/246 | {of the parallelogram type} | 3/15 | . . measuring variations of magnetic properties |
| 1/26 | . . with associated counterweight or set of counterweights | 3/16 | . . measuring variations of frequency of oscillations of the body |
| 1/28 | . . . involving means for automatically lifting counterweights corresponding to the load | 3/165 | . . . {Constructional details} |
| 1/29 | with electrical or electro-mechanical control means | 3/18 | . Temperature-compensating arrangements |
| 1/30 | . . . wherein the counterweight is in the form of a chain | 5/00 | Weighing apparatus wherein the balancing is effected by fluid action |
| 1/32 | . . . wherein the counterweights are in the form of rider-weights | 5/003 | . {load-cell construction or mountings} |
| 1/34 | . . . involving a fixed counterweight, with poise-weights selectively added to the load side | 5/006 | . {with pneumatic means} |
| 1/36 | . . . wherein the counterweights are slideable along the beam, e.g. steelyards | 5/02 | . with a float or other member variably immersed in liquid |
| 1/38 | with automatically-driven counterweight | 5/04 | . with means for measuring the pressure imposed by the load on a liquid (pressure gauges per se G01L) |
| 1/40 | . . specially adapted for weighing by substitution | 5/045 | . . {combined with means for totalising the pressure imposed by several load-cells} |
| 1/42 | . . Temperature compensating arrangements | 5/06 | . . with electrical indicating means |
| 3/00 | Weighing apparatus characterised by the use of elastically-deformable members, e.g. spring balances | 7/00 | Weighing apparatus wherein the balancing is effected by magnetic, electromagnetic, or electrostatic action, or by means not provided for in the preceding groups |
| 3/02 | . wherein the weighing element is in the form of a helical spring | 7/02 | . by electromagnetic action |
| 3/04 | . . using a plurality of springs | 7/04 | . . with means for regulating the current to solenoids |
| 3/06 | . wherein the weighing element is in the form of a spiral spring | 7/045 | . . . {having a PID control system} |
| 3/08 | . wherein the weighing element is in the form of a leaf spring | 7/06 | . by electrostatic action |
| 3/10 | . wherein the torsional deformation of a weighing element is measured | 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}
- 13/247 . . {Checking quantity of material in the feeding arrangement, e.g. discharge material only if a predetermined quantity is present}
- 13/248 . . {Continuous control of flow of material ([control of flow G05D 7/00](#))}
- 13/26 . . involving fluid-pressure systems
- 13/28 . . involving variation of an electrical variable which is used to control loading or discharge of the receptacle
- 13/285 . . . 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 purposes not provided for in the preceding 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 19/022, 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
- 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
- 23/46 Devices preventing recording until the weighing mechanism has come to rest
- 23/48 . . Temperature-compensating arrangements ([G01G 1/14](#), [G01G 1/42](#), [G01G 3/18 take precedence](#))