

D. J. CLUPKA.
WEIGHING SCOOP.
APPLICATION FILED JUNE 15, 1909.

956,626.

Patented May 3, 1910.

Fig. 1.

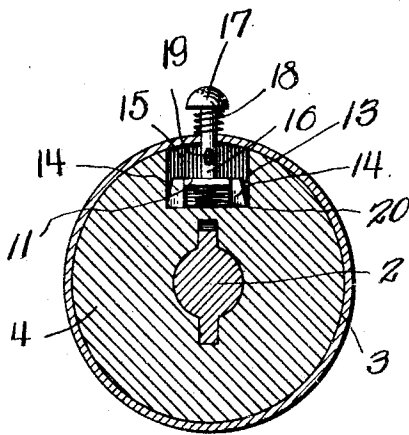
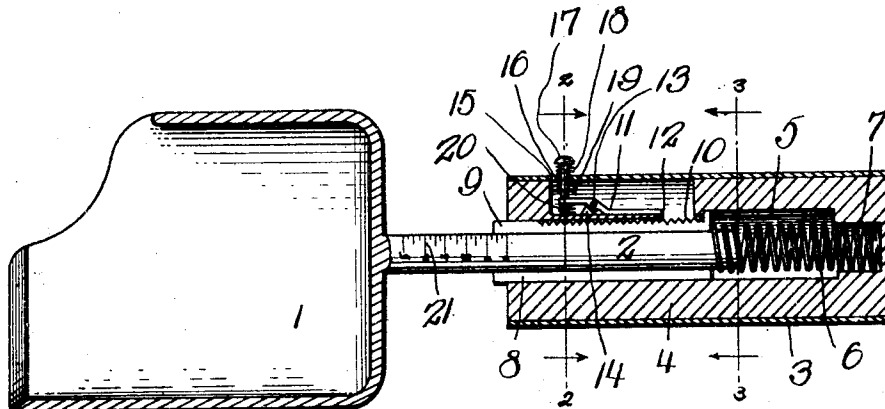


Fig. 2.

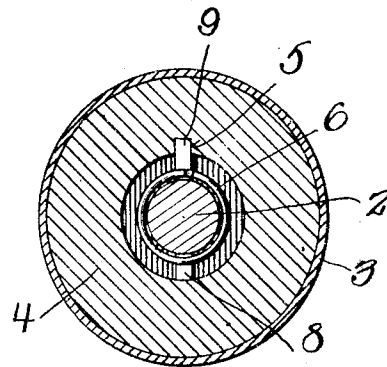


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

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WEIGHING-SCOOP.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DANIEL J. CLUPKA, a citizen of the United States, residing at Gainesville, in the county of Alachua and State of Florida, have invented new and useful Improvements in Weighing-Scoops, of which the following is a specification.

This invention relates to weighing scoops, the object in view being to provide a simple and practical device of the class described by means of which the contents of the scoop may be accurately weighed without interfering with the use of the scoop as such.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a longitudinal section through a weighing scoop embodying the present invention. Fig. 2 is an enlarged cross section on the line 2—2 of Fig. 1. Fig. 3 is a similar view on the line 3—3 of Fig. 1.

Referring to the drawings, 1 designates the body of the scoop which may be of any desired size and capacity and the shape of which is immaterial.

In carrying out the present invention, the body of the scoop is provided with a stem 2, which is mounted to move within a hollow or tubular handle comprising an outer shell or casing 3 and an inner core or body 4. This core or body 4 is provided with a longitudinal bore 5 in which the stem 2 is adapted to slide, a weighing spring 6 being arranged behind the stem 2 and interposed between said stem and the outer extremity of the handle which is closed and recessed as shown at 7 to form a pocket in which one end of the spring 6 is seated and held. The opposite end of the spring may, if desired, encircle the adjacent end of the stem 2 and be connected thereto in any convenient manner.

The stem 2 is provided at diametrically opposite points with longitudinal ribs 8 and 9 while the core 4 is correspondingly grooved to receive said ribs, the result being that relative movement is prevented between the stem and handle which adds much to the practical value of the scoop as it prevents

the scoop from turning over while it is being manipulated for the purpose of scooping up produce from a bin.

One of the ribs 9 is provided with a rack face 10 and cooperating with said rack face is a catch lever 11 provided with a single tooth 12 adapted to engage the rack face of the rib 9. The catch lever is fulcrumed at an intermediate point as shown at 13 between a pair of lugs 14 arranged in a recess 15 in the core 4 as best illustrated in Fig. 2. One arm of the catch lever 13 has associated therewith the stem 16 of a push button 17 which works through an opening in the outer shell or casing 3 and is normally held outward by means of a spring 18 interposed between the head of the button and the outer wall or shell 3. A pin or key 19 limits the outward movement of the button and prevents the stem 16 from escaping. An additional spring 20 is arranged under the projecting arm of the catch lever and acts to normally hold the tooth 12 in engagement with the rack face 10 of the rib 9. The material is scooped from a bin or receptacle in the ordinary manner and is then held with the scoop body 1 uppermost thereby bringing the weight of the material on the weighing spring 6. The button 17 is then pressed inward which allows the stem 2 to slide within the handle. The stem 2 may then be locked and held at such point by means of the catch lever allowing more material to be introduced in the scoop or some of the material to be removed therefrom until the exact amount of material is contained in the scoop. The catch lever 11 holds the scoop body in rigid relation to the handle while dipping the scoop into the material to be weighed thereby adding to the practical utility and value of the device.

The stem 2 is graduated or marked off in a scale as indicated at 21, the said scale, used in connection with a pointer or fixed marking or indicating device on the handle showing when the proper weight of material is contained in the body of the scale.

I claim:—

A weighing scale comprising a scoop body, a graduated stem projecting therefrom, a handle in which the stem slides, said handle being provided with a groove, a weighing spring in the handle on which the stem

rests, a rack faced longitudinal rib on the
stem working in the groove in the handle,
and a thumb operated spring catch mounted
in the handle and adapted to be moved into
5 and out of engagement with the rack faced
rib to hold the stem against movement in
the handle.

In testimony whereof I affix my signature
in presence of two witnesses.

DANIEL J. CLUPKA.

Witnesses:

W. E. BAKER,
CHRIS. MATHISON.