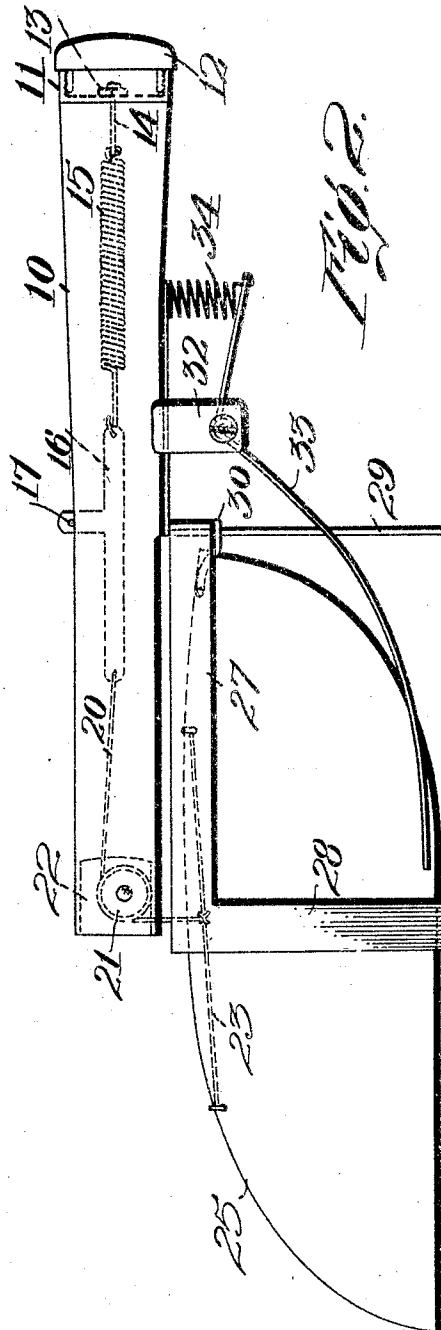
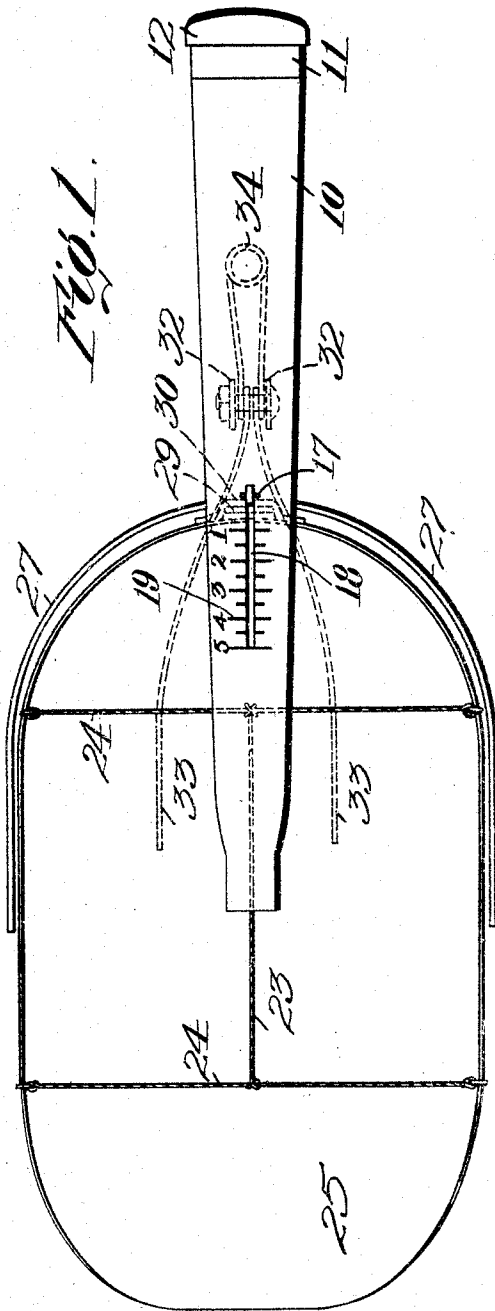


A. HIMOTTU.
WEIGHING SCOOP.
APPLICATION FILED JULY 12, 1909.

949,766.

Patented Feb. 22, 1910.



Witnesses:
C. F. Mason
W. J. Hartnett

Inventor
Albert Himottu
By Attorney
Southgate & Southgate

UNITED STATES PATENT OFFICE.

ALBERT HIMOTTU, OF WORCESTER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO
KLAUS A. HANNULA, OF GARDNER, MASSACHUSETTS.

WEIGHING-SCOOP.

949,766.

Specification of Letters Patent.

Patented Feb. 22, 1910.

Application filed July 12, 1909. Serial No. 507,190.

To all whom it may concern:

Be it known that I, ALBERT HIMOTTU, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Weighing-Scoop, of which the following is a specification.

This invention relates to a weighing scoop, the principal objects thereof being to provide a simple and inexpensive construction which shall have great rigidity when the scoop is in position for introduction into any granular or similar material for the purpose of taking it up; also to provide means whereby the scoop can be held firmly up against the handle and readily released for the purpose of weighing; to provide a simple stationary guide for the scoop, and a convenient support for it by which it is connected with the weighing means on the handle; and generally to improve and simplify the construction of this type of utensil.

Further objects and advantages of this invention will appear hereinafter.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a plan of a weighing scoop constructed in accordance with this invention, and Fig. 2 is a side view thereof.

The invention is illustrated in a form in which a hollow sheet metal handle 10 is employed having an end plate 11 brazed or cast therein and provided with a removable screw cap 12. When this cap is removed it exposes a nut 13 on a rod 14 which extends through the plate 11. This rod is the end of a spring 15 which is connected with a longitudinally movable bar 16 on which is mounted an indicating point 17 projecting up through a slot 18 in the handle. At the sides of this slot the handle is provided with a scale 19, the position of the pointer on which indicates the weight. To the bar 16 is connected a flexible member 20 which passes around a wheel or pulley 21 mounted at the end of the handle. The flexible member passes one or more times over the wheel and depends therefrom. At its lower end it is secured to a frame consisting of wire, chain, or the like, and comprising a central longitudinal member 23 and two transverse members 24 to which the central member is secured. The transverse members are connected directly with the upper edges of the

scoop 25, so that the whole frame is substantially in a single plane.

The scoop is free to move up and down and the spring 15 normally holds it in its uppermost limit. In order that the scoop may be properly guided, a rigid frame 27 is mounted on the bottom of the handle and this is provided with two vertical side guides 28 and a rear guide 29. The side guides are adapted to engage the sides of the scoop and keep it in proper position. The rear of the scoop is provided with a loop 30 which surrounds the rear guide 29 and engages the bottom of the frame 27 when the scoop is pulled up to its limiting upper position.

In order to hold the scoop up so that it can be used as a scoop without yielding materially, the handle is provided with downwardly extending lugs 32 on which is pivoted a lever 33 shown as having two arms projecting under the scoop. A strong spring 34 engages the other end of this lever to hold its arms against the scoop and keep it firmly in position while being used as a scoop. It will be seen that to use the scoop the handle is grasped in such a way that the spring 34 is free to act with its full force and then the utensil can be used like an ordinary scoop. Then when the scoop is withdrawn one of the fingers is used to press up the end of the lever 33 against the spring 34. This withdraws the arms from the scoop and permits it to be used for weighing purposes.

While I have illustrated and described a preferred embodiment of the invention, I am aware that many modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore I do not wish to be limited to all the details of construction herein shown and described, but

What I do claim is:—

1. In a weighing scoop, the combination of a handle, a vertical movable scoop, means at its center under the end of said handle for supporting the scoop, and a rigid guide frame on the handle for keeping the scoop in proper position.

2. In a weighing scoop, the combination of a handle, a frame rigidly mounted thereon and having downwardly projecting side members and a rear member, a scoop and

means at the end of the handle and adapted to engage the side members to be guided thereby for supporting the scoop, and having a loop surrounding the rear member.

5 3. In a weighing scoop, the combination of a handle, a frame rigidly mounted thereon and having downwardly projecting side members and a rear member, a scoop and means at the end of the handle and adapted
10 to engage the side members to be guided thereby for supporting the scoop, and having a loop surrounding the rear member.

4. In a weighing scoop, the combination of a handle, a flexible connection supported
15 thereby, a scoop depending from the handle and secured to said flexible connection, and means mounted on the handle and engaging the bottom of the scoop for resiliently forcing the scoop upwardly, said means being
20 movable away from the scoop.

5. In a weighing scoop, the combination of a handle, a spring therein, a flexible member connected with the spring and depending from the end of the handle, a scoop
25 supported by said flexible connection, and resilient means on the handle independent of said spring for moving the scoop up, said resilient means being movable out of engagement with the scoop.

30 6. In a weighing scoop, the combination of a handle, a vertical guide depending therefrom and rigidly connected therewith, a scoop movable vertically along the guide

and supported by the handle, a lever pivoted on the bottom of the handle and projecting
35 under the scoop, and a spring connected with said lever for turning it so as to lift the scoop.

7. In a weighing scoop, the combination of a hollow handle, a spring therein, an
40 indicating pointer connected with said spring, said handle having a slot through which said pointer projects, a flexible member connected with the pointer, a wheel or
45 pulley on the handle over which said flexible member passes, and a scoop connected with said member and supported thereby.

8. In a weighing scoop, the combination of a handle, a flexible member therein, a
50 wheel near the end of the handle over which said flexible member passes and from which it depends, a spring connected with the flexible member, a scoop under the wheel,
55 and a frame consisting of two transverse and one longitudinal member secured together, to the middle of which said flexible member is secured, said frame constituting a support for the scoop.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing
60 witnesses.

ALBERT HIMOTTU.

Witnesses:

A. E. FAY,
C. FORREST WESSON.