

1,139,831.

Patented May 18, 1915.

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UNITED STATES PATENT OFFICE.

WALTER A. BARROWS, OF BELVIDERE, ILLINOIS.

MEASURING DEVICE.

1,139,831.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WALTER A. BARROWS, a citizen of the United States, residing at Belvidere, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Measuring Devices, of which the following is a specification.

One of the primary objects of my invention is to provide an improved dispensing device for delivering at will a determined quantity of material.

Another object is to provide a dispensing device with means for varying the amount to be delivered; and a further object is to provide the device with a tiltable discharge receptacle, and a single means for varying the capacity of the receptacle and for controlling the discharge therefrom.

A further object of my invention is to provide a dispensing device including a tilting receptacle, with an adjustable closure for controlling the discharge from the receptacle.

In the accompanying drawings, Figure 1 is a side elevation. Fig. 2 is an end elevation of the delivery end. Fig. 3 is a section on line *b b* Fig. 2 in which the parts are in their normal position. Fig. 4 is a section on line *b b* Fig. 2 in which the parts are in their discharging position. Fig. 5 is a section on line *a a* Fig. 3. Fig. 6 is a plan view.

The receptacle 1 has a hopper shape bottom 2 provided with two depending ears 3. To the ears 3 is pivoted a tilting section 4 having a discharge opening 5. A portion of this section is circular and the portion 6 thereof is movable across the lower open end 7 of the hopper bottom 2.

This tilting section has a cut-away portion 8. An adjustable plate 9 is pivotally connected to the lower end of the hopper bottom 2, and a strap 10 is pivoted above the plate 9 and is provided with a slot 11. A thumb screw 12 has a screw-threaded connection with the plate 9 and passes through the slot 11. To each of the ears 3 is connected one end of a helical spring 13, and the other ends of these springs are connected to the tilting section. These springs serve to hold the tilting section in the position shown at Fig. 3.

When the parts are in the position shown at Fig. 3, the material contained in the receptacle 1 will pass through the bottom of the hopper into the tilting section 4 and

fill it, the plate 9 serving as a closure for the tilting section.

By imparting a quick downward movement to the tilting section, the section 6 thereof will close the opening in the bottom of the hopper thereby cutting off the flow of the material from the receptacle into the tilting section, at the same time the tilting section is moved an opening will be formed beneath the lower end of the plate 9, and the bottom of the tilting section as shown at Fig. 4 which will allow the material to flow from the tilting section. The springs will return the tilting section into its normal position and the stops 14 will limit its upward movement.

By adjusting the plate 9 in connection with the strap 10, the capacity of the tilting section can be varied.

I claim as my invention—

1. A receptacle having an open lower end, ears depending from the receptacle, a tilting section connected to the ears, spring connection between the tilting section and the receptacle, a closure for the tilting section pivotally connected to the receptacle and means for holding the closure in its adjusted position.

2. A receptacle having an open lower end, ears depending from the receptacle, a tilting section located between the ears and pivoted thereto, a spring connection between the tilting section and the receptacle, the tilting section having a wall adapted to close the lower end of the receptacle, and a closure for the tilting section connected to the receptacle.

3. A receptacle having an open lower end, ears depending from the receptacle, a tilting section pivotally connected to the ears, a spring connection between the tilting section and the receptacle, a closure for the tilting section pivotally connected to the receptacle, a bar pivotally connected to the receptacle, and an adjustable connection between the closure and bar.

4. A dispensing device, comprising a hopper provided with an opening at its bottom portion, a discharge receptacle pivotally mounted below the hopper, the receptacle being constructed to permit contents of the hopper to pass thereinto, and being provided with a curved wall concentric with its pivot axis, the curved wall being positioned to permit said passage of contents when

the receptacle is in a normal position, but to stop said passage when the receptacle is swung on its pivot to a discharge position, the receptacle being provided with a discharge opening, and means comprising an adjustable wall-portion of the receptacle for closing said discharge opening when the receptacle is in its normal position and for permitting discharge from the receptacle when the same has been swung to its said discharge position.

5. A dispensing device, comprising a hopper having a discharge opening at its bottom, a discharge receptacle pivoted to and beneath said hopper and having a receiving opening at its top normally registering with the discharge opening of said hopper and a lateral delivery opening, and a depending guard for said delivery opening secured at its upper end to said hopper and extending within and constituting a wall member for said receptacle to cut off said delivery opening when said discharge receptacle is in receiving position relatively to said hopper.

6. A dispensing device, comprising a hopper having a discharge opening at its bottom, a discharge receptacle pivoted to and beneath said hopper on an axis intersecting the vertical axis of said hopper, said discharge receptacle having a receiving opening at its top, parallel side walls, a curved rear wall adapted, when the receptacle is tilted, to slide across and close the discharge opening of the hopper, and a forwardly projecting delivery spout, and a depending guard for said delivery spout secured at its upper end to said hopper and extending within and constituting a front wall for said receptacle to close said delivery spout when the discharge receptacle is in receiving position relatively to said hopper.

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

WALTER A. BARROWS.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."