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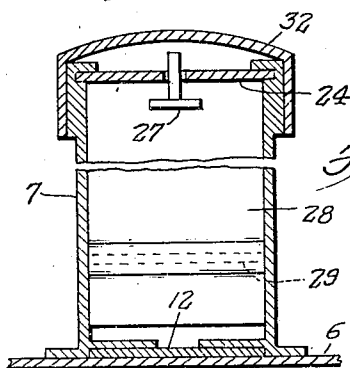
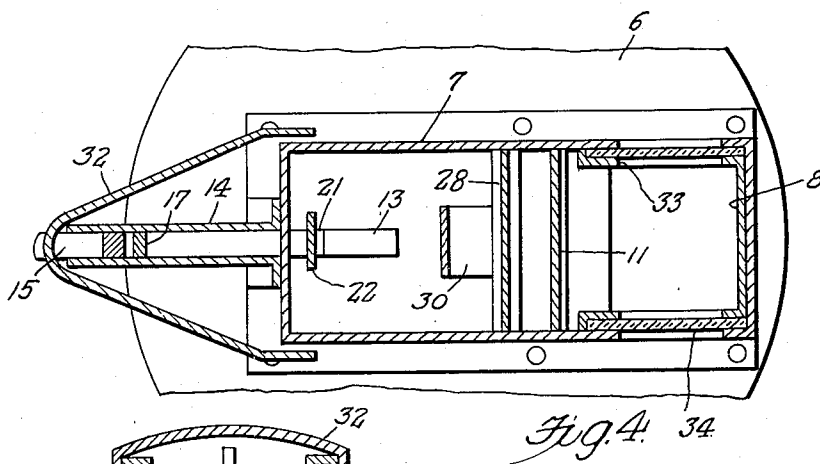
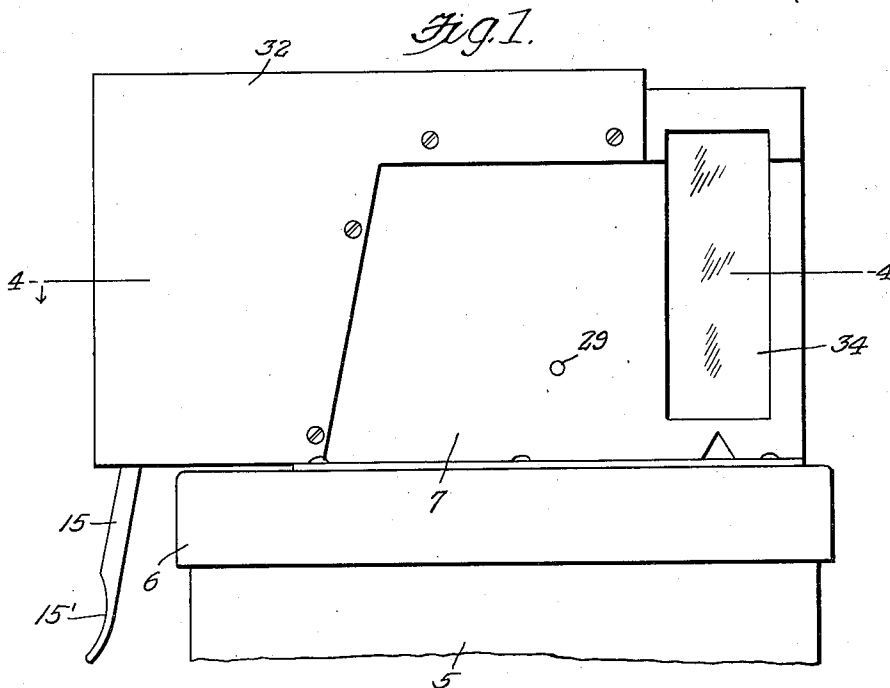
C. A. WILLMAN

2,236,203

MEASURING AND DISPENSING DEVICE

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2 Sheets-Sheet 1



Inventor

Charles A. Willman.

By

Clarence A. O'Brien
and Hyman Berman

Attorneys

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MEASURING AND DISPENSING DEVICE

Charles A. Willman, Ontonagon, Mich.

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3 Claims. (Cl. 221-112)

The present invention relates to measuring and dispensing devices and has for its primary object to provide a device of this character adapted for use in connection with a receptacle containing sugar or the like and which may be used on the table so as to permit the operator to dispense a few spoonfuls or other desired quantities of the material therefrom.

A further object is to provide a measuring device of this character embodied with a lid adapted for removable connection on the receptacle and in which a pair of slidable oppositely operable closure valves are provided controlling communication of a chamber carried by the lid with the receptacle so that while the closure for admitting the material into the compartment is open the other closure will be closed and vice versa.

A further object of the invention is to provide a window opening in the side of the compartment in order that the quantity of the material entering the same may be observed.

A still further object is to provide an apparatus of this character of simple and practical construction, which is efficient and reliable in performance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof wherein like numerals refer to like parts throughout, and in which—

Figure 1 is a side elevational view.

Figure 2 is a fragmentary vertical sectional view.

Figure 3 is a top plan view with the cover on the housing removed.

Figure 4 is a sectional view taken substantially on a line 4-4 of Figure 1.

Figure 5 is a vertical sectional view through the housing for the oppositely operable closures, and

Figure 6 is a fragmentary perspective view of the connection between the lever and the upper closure.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a receptacle, preferably of glass and having a lid 6 threaded on its upper end. Mounted on the lid is a housing 7 which includes a compartment 8 having communication with the receptacle 5 through an opening 9 in the top of the lid, the housing also in-

cluding a chamber 10 separated from the compartment 8 by means of a vertical partition 11.

Slidably mounted on top of the lid 6 and under the partition 11 is a lower valve or closure 12 adapted to close the opening 9, the valve having an arm 13 secured to its upper surface and projecting out through an opening in one of the vertical walls of the housing 7. Secured to the housing is a bracket 14 to which a lever 15 is pivoted substantially at its center by means of a pin 16, the lever having a finger grip 15 at its lower end. A link 17 is also pivoted adjacent its upper end as at 18 to the bracket and extends parallel to the lever 15. The lower end of the link engages the outer end of the arm 13 and the upper end of the link is curved away from the lever as shown at 19. A substantially U-shaped connector 20 has one end secured to the upper end of the lever and its other end curved to conformably seat against the curved end of the link to connect the link and lever for uniform pivotal movement, the connector being free of the link to compensate for the difference in the throw thereof, it being apparent that the lever will impart a greater movement to the link to actuate the arm 13. The arm 13 is provided with a notch 21 within which one end of a leaf spring 22 is seated, the spring being secured at its opposite end within the housing and arranged to yieldably project the arm 13 outwardly with the valve 12 in an open position.

The upper end of the chamber 8 is provided with a discharge opening 23 and slidably mounted thereon is a valve or closure 24 adapted to close said opening, the valve being slidably mounted in a guide 25 formed on top of the housing 7. The valve is also formed with an opening 26 through which projects a pin 27 secured to the upper edge of a vertically positioned lever 28 which is pivotally mounted adjacent its lower end on a rod 29 extending transversely of the compartment 10. Secured to the lever 28 in a leaf spring 30 which has its upper end extending toward an opposite side of the chamber 10 in abutting relation with a block 31 secured to the inner wall of the housing. The spring is adapted to normally maintain the valve 24 in a closed position.

The lower end of the lever 28 is positioned in the path of the inward movement of the arm 13 as will be clearly apparent from an inspection of Figure 2 of the drawings so that when the arm 13 is moved inwardly to close the lower valve 12 the lever 28 will also be subsequently engaged to operate the same in a manner to open the upper valve 24. The top of the chamber 10 the bracket 14 and

the upper end of the lever 15 are enclosed by a removable cover 32.

Window openings 33 are formed in the side walls of the compartment 8 in which transparent panes 34 are fitted to ascertain the quantity of material entering the chamber.

Scrapers 35 are provided for the upper and lower surfaces of the closure 12.

While a separate connector 20 is shown for connecting the lever 15 and link 17, it will be understood this element may be formed integrally with the upper end of the lever, if desired.

It is believed the details of construction and manner of use of the device will be readily understood from the foregoing without further detailed explanation.

Having described the invention, what I claim is:

1. A measuring and dispensing attachment for receptacles comprising a material receiving and dispensing chamber having openings in its top and bottom portions, the bottom opening communicating with the receptacle, a sliding valve for each opening, spring means for each valve yieldably maintaining the bottom valve open and the top valve closed, a manipulating lever connected to the lower valve for closing the same, a pivoted lever connected to the upper valve and having one end in the path of a part of the lower valve for oppositely actuating said valves, said upper valve remaining inactive during initial closing movement of the lower valve.

2. A measuring and dispensing attachment for receptacles comprising a material receiving and dispensing chamber having openings in its top and bottom portions, the bottom opening communicating with the receptacle, slidable closures for each opening, spring means yieldably maintaining the closures in opposite positions, an arm for oppositely actuating the closures and means for operating the arm and comprising a pivoted lever and a pivoted link arranged in parallelism, said link having a long end engaging the arm and means connecting the short end of the link with the adjacent end of the lever and adapted to increase the throw of the long end of the link.

3. A measuring and dispensing attachment for receptacles comprising a material receiving and dispensing chamber having openings in its top and bottom portions, the bottom opening communicating with the receptacle, slidable closures for each opening, spring means yieldably maintaining the closures in opposite positions, an actuating member for the closure of the bottom opening and a pivoted lever connected at one end to the valve of the upper opening and having its opposite end disposed in the path of the actuating member for operation thereby following initial closing movement of the first-named closure, said lever being pivoted adjacent its actuated end to increase its throw at its closure connected end to compensate for its delayed movement.

CHARLES A. WILLMAN.