

June 10, 1930.

E. M. BROWN

1,763,551

SUGAR DISPENSER

Filed June 21, 1927

2 Sheets-Sheet 1

Fig. 1.

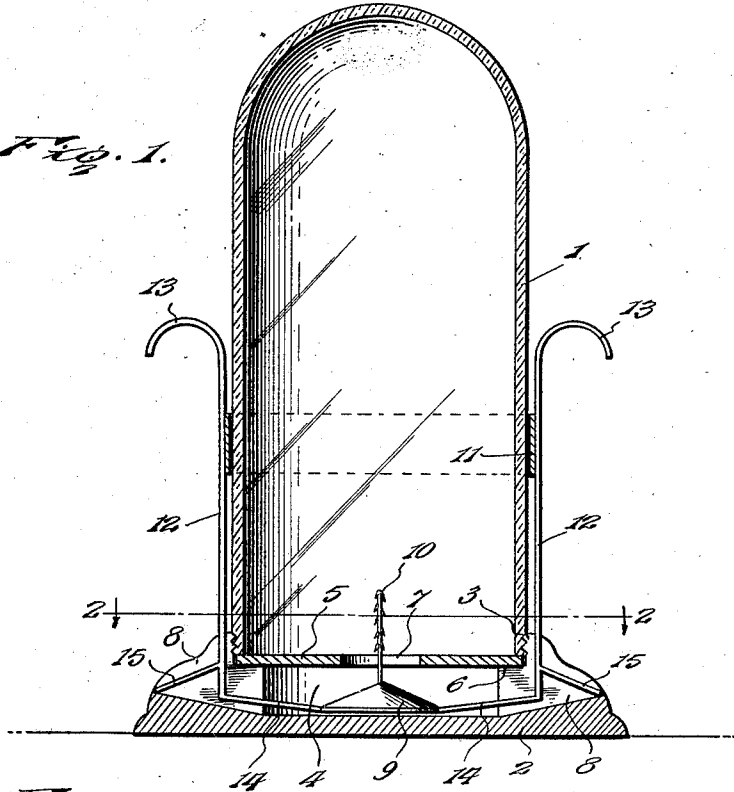


Fig. 2.

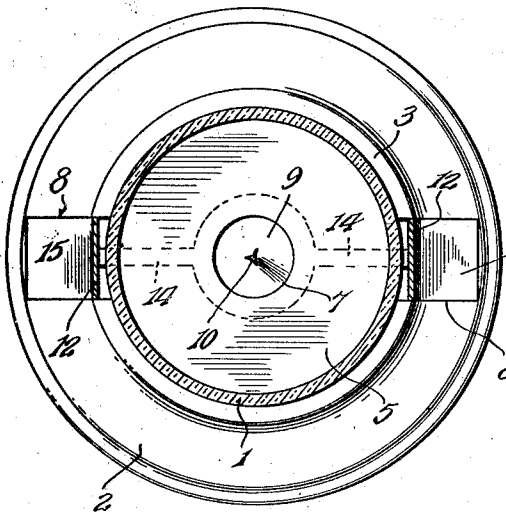
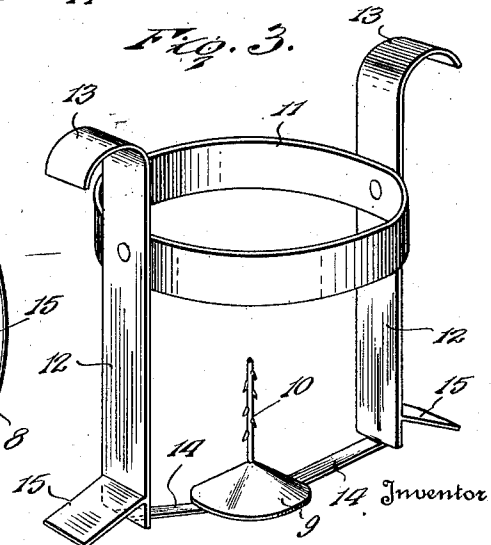


Fig. 3.



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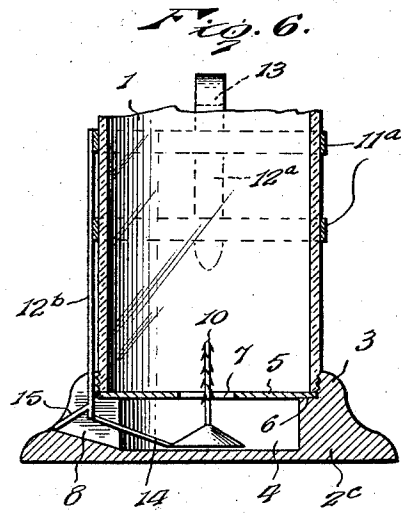
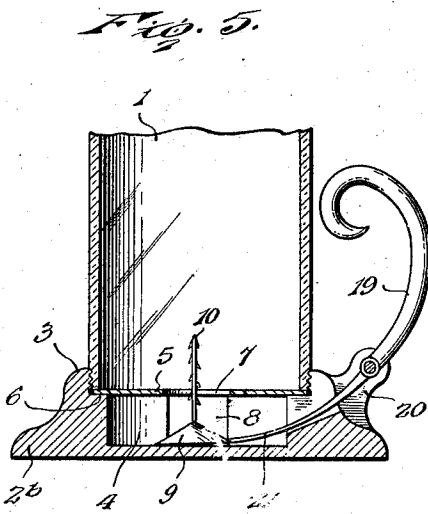
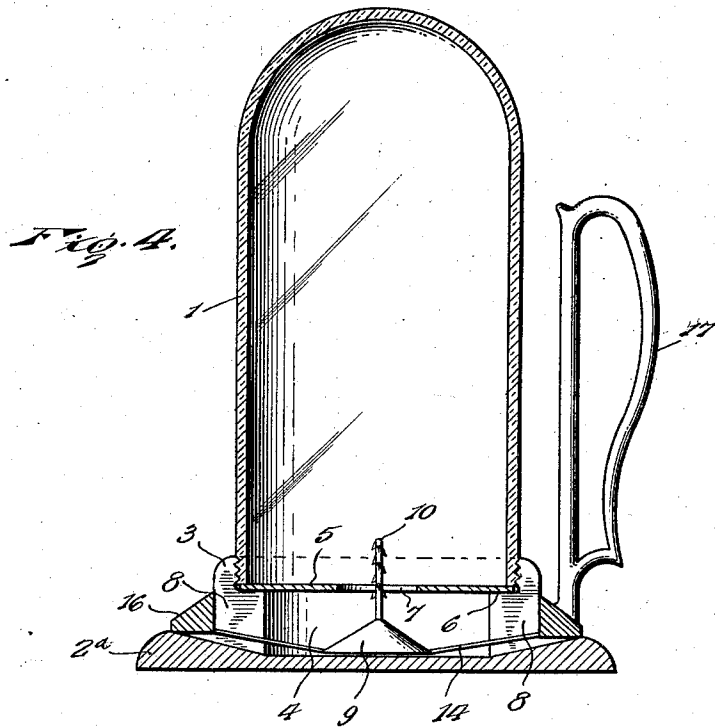
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2 Sheets-Sheet 2



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## UNITED STATES PATENT OFFICE

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## SUGAR DISPENSER

Application filed June 21, 1927. Serial No. 200,453.

In its particular adaptation the invention provides an article for dispensing sugar at table, counter or other place of service, and preventing contamination and waste thereof.

5 The invention provides a device including a holder for containing a quantity of the sugar, or other commodity, a chamber for receiving a predetermined portion of the sugar from the holder, a cut-off for closing the  
10 opening by means of which communication is established between the holder and chamber, and a lifter for manipulating the device connected with the cut-off for actuation thereof to interrupt the communication between the  
15 holder and chamber when the device is elevated to effect dispensing of the commodity to be delivered.

While the drawing illustrates a preferred embodiment of the invention it is to be understood that in adapting the means to meet  
20 specific needs and requirements the design may be varied and such other changes in the minor details of construction may be resorted to within the scope of the invention as  
25 claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and the drawings  
30 hereto attached, in which,—

Figure 1 is a vertical, central sectional view of a dispenser embodying the invention.

Figure 2 is a plan sectional view on the line 2—2 of Figure 1.

35 Figure 3 is a perspective view of the lifter, and the parts connected therewith.

Figure 4 is a detail sectional view similar to Figure 1 of a modification.

40 Figure 5 is a detail sectional view of a further modification in which the lifter is pivoted.

Figure 6 is a sectional view of a further modification.

45 Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

50 The holder or container 1 for receiving the sugar or other article to be dispensed is preferably of bell shape and formed of glass to

admit of the contents being visible. The base 2 may be of any preferred material and receives the holder 1 which may be connected thereto in any manner. As illustrated, the base 2 is formed with an upstanding flange 3 55 which is interiorly screw-threaded to match corresponding screw threads formed upon the lower end of the holder 1. A recess 4 is formed in the top side of the base 2 and defines a chamber of determinate size for receiving the portion of sugar to be dispensed at each operation of the device. A partition 5 separates the chamber 4 from the holder, and is supported upon a shoulder 6 formed at the base of the upstanding flange 3. The  
60 partition 5 is confined between the shoulder 6 and the lower end of the holder 1. An opening 7 formed centrally in the partition 5 provides an outlet for the contents of the holder. Openings 8 lead from the chamber 4 and are located at diametrically opposite points and provide discharge outlets for the delivery of the sugar or other article to be dispensed. The bottom or floor of the delivery outlets 8 inclines upwardly and outwardly from the chamber 4 to prevent premature discharge of the contents from the chamber 4 when said outlets are uncovered in the initial elevation of the lifter.

A cut-off 9 is associated with the opening 7 80 whereby to close such opening when the lifter is elevated in the act of raising the device from the table, counter or other support preliminary to discharging the contents from the chamber 4. 85

The cut-off 9 is of conical form to offer a minimum resistance to the outflow of the contents from the holder into the chamber 4, and to admit of upward movement of the cut-off to close the opening 7 when the device is elevated through the instrumentality of the lifter. An agitator 10 projects vertically through the opening 7 from the apex of the cut-off 9 and consists of a pin provided along its side with barbs or spurs. The agitator insures a positive feed of the sugar in the operation of the dispenser. 95

The lifter includes a band 11 or like part, loosely encompassing the holder 1, and up-  
rights 12 which are secured to the band 11 100

and project upwardly therefrom a short distance and terminate in outwardly disposed hooks 13 which are adapted to engage over the digits, such as the thumb and forefinger of the human hand grasping the device in the manipulation thereof. Strips 14 connect the lower ends of the uprights 12 with the cut-off 9 and these strips or connections 14 are narrow, so as to pass readily through the contents of the chamber 4. Covers 15 project outwardly and downwardly from the lower ends of the uprights 12 and provide closures for the delivery outlets 8, and by reason of the outward and downward inclination of the covers, anything dropping thereon is shed, and delivered clear of the base. The lifter fits the holder sufficiently loose to move freely and when elevated the cut-off 9 functions as a valve to close the outlet 7, and to elevate the covers 15 a distance to permit of discharge of the contents from the chamber 4 through either of the outlets 8 by tilting the device to such an angle as to cause the contents to flow from the chamber 4 through the lower outlet 8.

When the holder 1 is detached from the base 2 and inverted it may be supplied with sugar or any other article to be dispensed and while inverted the base is placed in position after which the device is adjusted to normal position, so that the base 2 may be placed upon a table, counter or other support. When the lifter is released it assumes a position with the cut-off 9 resting upon the bottom or floor of the chamber 4, thereby admitting of a portion of the contents passing from the holder 1 through the opening 7 into the chamber 4. The portion to be delivered will depend upon the capacity of the chamber 4, as will be readily understood. The device is operated by gripping the lifter and moving the same to elevate the article. The initial upward movement of the lifter elevates the cut-off and closes the opening 7 and after the device has been moved to the desired position, the contents are discharged from the chamber 4 through either one of the outlets 8 by tilting the device to such an angle as to cause the contents to flow from the chamber through the outlet. Upon replacing the article upon the table the lifter lowers, thereby permitting a replenishing of the chamber 4 for the delivery of another portion. The device protects the sugar and prevents contamination thereof by insects, and also has a deterring effect to prevent waste, as will be readily understood.

In the modification shown in Figure 4, the lifter comprises a ring 16 and a handle 17 projecting vertically from the ring. The top of the ring 16 is beveled outwardly and downwardly to present a neat appearance and to shed anything that may drop thereon. The ring is freely movable upon an extension of the base 2<sup>a</sup> and closes the outlets 8. Strips

14 connect the cut off 9 with the ring 16. When the handle 17 is grasped and elevated the ring 16 and cut off 9 are moved upwardly and uncover the outlets 8 and close the opening 7 and upon tilting the device the contents may be discharged from the chamber 4 through one of the outlets 8 in the manner herein stated.

The modification illustrated in Figure 5 embodies a pivoted lifter 19 connected to a projection 20 offset from the base 2<sup>b</sup>. An arm 21 extending from the pivotal end of the lifter 19 receives and supports the cut off 9. When the lifter, or handle 19, is grasped to elevate the device it pivots and moves the cut off 9 to close the opening 7, so that the contents may be discharged from the chamber 4 through an opening 8 by tilting the device, as hereinbefore specified.

The lifter shown in Figure 6 comprises two bands 11<sup>a</sup> and uprights 12<sup>a</sup> and 12<sup>b</sup>. The upright 12<sup>a</sup> terminates in a lateral hook 13. The upright 12<sup>b</sup> extends below the holder 1 and has a cover 15 and a strip 14 connected thereto. The base 2<sup>c</sup> has a single outlet 8 which is closed by the cover 15. The operation is substantially the same as that given herein in connection with the form shown in Figure 1.

The lifter in the various forms disclosed constitutes a handle for convenience of manipulating the device when elevating, tilting and moving the same. The outlet 7 from the holder is normally uncovered, and the outlet 8 from the dispensing chamber 4 is normally covered. When the handle is grasped and lifted to elevate the device the valve 9 is moved and closes the outlet of the holder, and the outlet of the dispensing chamber is uncovered, whereby upon tilting the device the sugar or other content is discharged.

Having thus described the invention, I claim:

1. A dispenser comprising a base recessed in its top side to provide a chamber having an outlet, a holder detachably mounted upon the base, a partition between the base and holder, and having an opening for the discharge of the contents of the holder into the chamber, a cut off within the chamber, a handle slidably mounted upon the holder, connecting means between the handle and cut-off, and a cover for the outlet of the chamber connected with the handle for movement therewith.

2. A dispenser comprising a base recessed in its top side to provide a chamber having an outlet, a holder detachably mounted upon the base, a partition confined upon the base by means of the holder and having an opening to admit of the contents of the holder discharging into the chamber, a cut off within the chamber, a handle slidably mounted upon the holder and comprising an upright portion and an encompassing portion, connecting means between the handle and the cut-off,

and a cover for the outlet of the chamber connected with the said handle.

3. A dispenser comprising a base having a recess in its top side forming a chamber, and having an upstanding flange and an inner shoulder at the base of the flange, and formed with outlets leading from the chamber, a partition extending over the chamber and resting upon the said inner shoulder and having a central opening, a holder having screw thread connection with the upstanding flange of the base and adapted to retain the partition in place, a cut-off within the chamber, an agitator projecting into the holder from the cut-off, a lifter slidably engaged upon the holder and comprising uprights having outwardly disposed hooks to engage over digits of the hand, connecting means between the uprights of the lifter and the cut-off, and covers carried by the lifter and adapted to close the outlets of the said chamber.

4. A dispenser including a holder for receiving the article to be dispensed, and having a dispensing chamber therebelow, said holder having an outlet communicating with the chamber, said dispensing chamber having an outlet for the article to be dispensed, a handle slidably associated with the holder, a valve for the outlet of the holder, and a cover for the outlet of the dispensing chamber, both the valve and the cover being simultaneously operated when lifting force is applied to the said handle.

5. A dispenser including a holder for receiving the article to be dispensed and having a dispensing chamber therebelow, said holder having an outlet communicating with the chamber, said dispensing chamber having a discharge outlet for the article to be dispensed, a handle slidably associated with the holder, a valve actuated with the handle to close the outlet of the holder when lifting force is applied to the handle, and means associated with the handle for simultaneously opening and closing the discharge outlet alternately as the valve is closed and opened.

6. A dispenser comprising a base recessed to provide a chamber, a holder detachably mounted upon the base, a partition between the holder and chamber and having an opening for the discharge of the contents of the holder into the chamber, a cut-off disposed within said chamber, and a handle slidably connected with the holder and having connection with the cut-off to effect a closing movement thereof.

7. A dispenser including a holder for receiving the article to be dispensed and having a dispensing chamber therebelow, said holder having an outlet communicating with the chamber, said dispensing chamber having a discharge outlet for the article to be dispensed, a valve disposed in the dispensing chamber, an agitator projecting from the valve into the holder through the outlet there-

of, and a handle slidably associated with the holder and adapted to actuate the valve and agitator when the device is manipulated by lifting force applied to the handle, and means associated with the handle for simultaneously opening and closing the discharge outlet as the valve is closed and opened.

8. A dispenser including a holder for receiving the article to be dispensed, a base having the holder mounted thereon and formed with a dispensing chamber, said holder having an outlet communicating with the dispensing chamber, said dispensing chamber having a discharge outlet for the article to be dispensed, a valve in the dispensing chamber, and a handle slidably associated with the holder and adapted to operate the valve to close the outlet when the device is lifted by means of the handle, and means associated with the handle for simultaneously opening and closing the discharge outlet as the valve is closed and opened.

In testimony whereof I affix my signature.  
EDWIN M. BROWN. [L. s.]

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