Sept. 6, 1938. E. E. FOSTER 2,128,933

SUGAR DISPENSER

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Fig. 1.

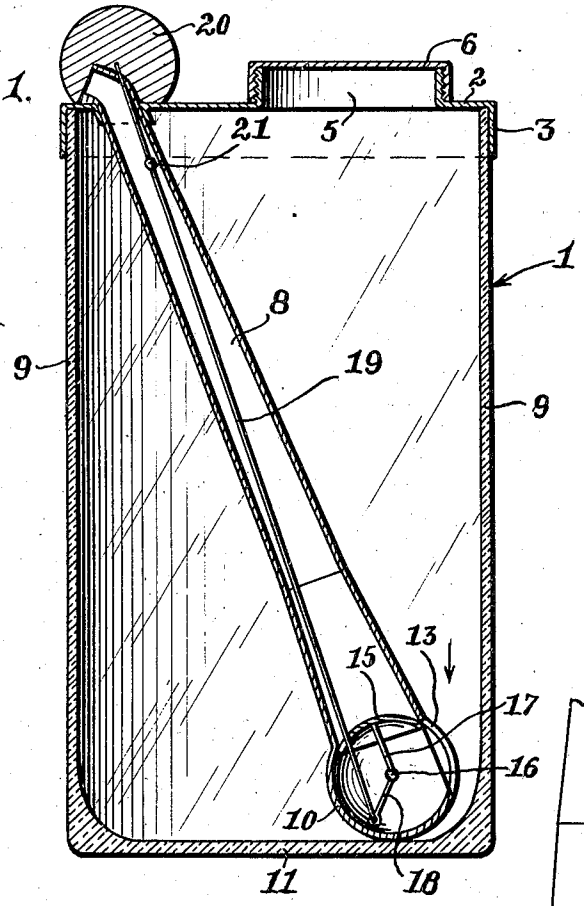


Fig. 5.

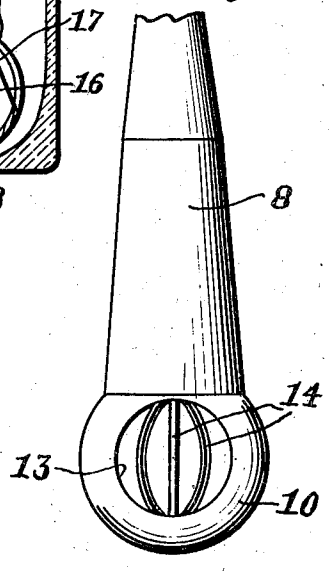
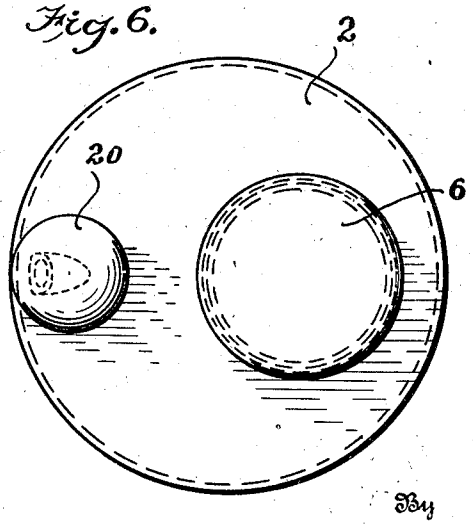


Fig. 6.



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Fig. 2.

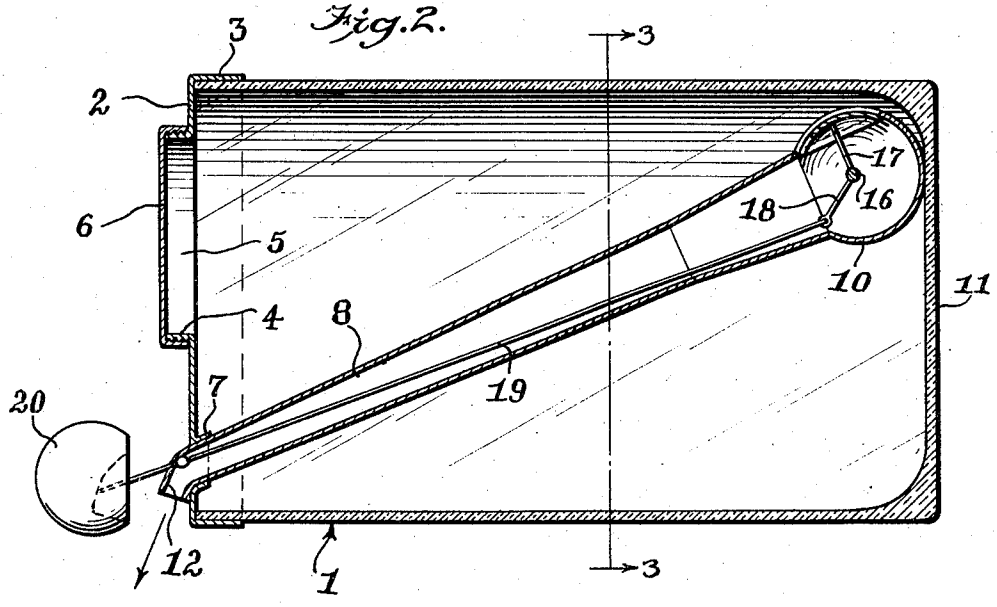


Fig. 3.

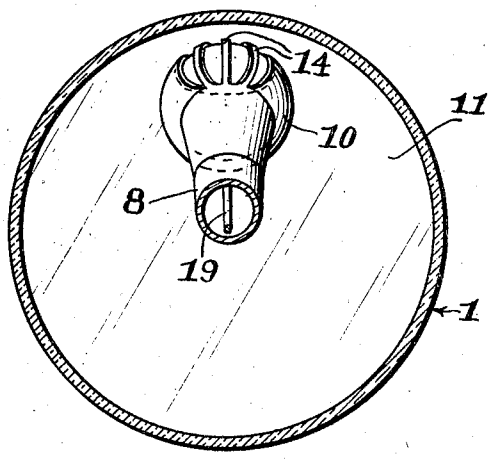
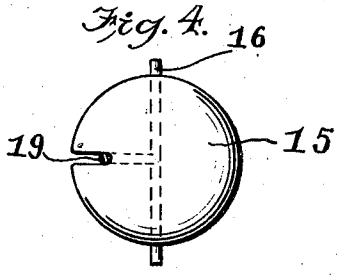


Fig. 4.



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UNITED STATES PATENT OFFICE

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SUGAR DISPENSER

Edwin E. Foster, Austin, Tex.

Application April 1, 1937, Serial No. 134,366

6 Claims. (Cl. 221—98)

The present invention relates to a dispenser for sugar and other granular and powdered materials and it consists of a container having means for dispensing a definite quantity of material. An object of the invention is to provide a cover for the sugar outlet which also acts to operate the measuring device for the definite quantity of sugar. This cover and measuring device are weight operated.

Further objects will be apparent from the following description taken in connection with the accompanying drawings in which:

Figure 1 is a vertical sectional view of the sugar dispenser,

Fig. 2 is a similar view showing the dispenser in the act of discharging a quantity of sugar,

Fig. 3 is a cross-sectional view taken on the line 3—3 of Fig. 2 in the direction of the arrows,

Fig. 4 is an end view of the closure for the measuring device,

Fig. 5 is a partial side view of the measuring device and the pouring tube, and

Fig. 6 is a top view of the sugar dispenser.

The container 1 of the sugar dispenser may be preferably made of glass, either clear or colored or of any other suitable material. A cover or top member 2 of metal fits over the top edge of the container by means of the flanges 3 and may be held in place by a tight fit or any other suitable expedient. The top member 2 is provided with a screw-threaded collar 4 forming an opening 5 and preferably integral with the top member 2. A cover 6 is screw-threaded on the collar 4, and when sugar is to be placed in the dispenser, the cover 6 is removed and sugar poured through the opening 5. The top member 2 is also provided with a further opening having an inwardly directed guide flange or projection 7, also integral with the cover.

A tube 8 preferably tapered, extends through the cover 2 and as shown in Figs. 1 and 2, this tube is angularly directed relative to the sides 9 of the container 1. The inner end of the pouring tube 8 has an enlarged portion or bowl 10 preferably in the form of a sphere which rests or contacts with the bottom portion 11 of the container 1. The other end of the tube projects through the cover 2 and is slightly curved to form a pouring spout 12. As clearly seen in Figs. 1 and 2 the angular position of the tube 8 corresponds with the guide flange 7 by contacting therewith to maintain the tube firmly in the cover 2 and container 1.

The spherical measuring bowl 10 is provided with an opening 13 having a number of rods 14 therein, Figs. 3 and 5, to form a grill for the purpose of excluding entry of large lumps of sugar or other material to be dispensed. A closure 15 is rotatably mounted internally on a shaft 16 arranged in the bowl 10 horizontally relative to Fig. 1. This mounting may comprise one or more spokes 17 and an operating lever 18 is also secured to the shaft 16. An operating rod 19 extends through the inner length of the tube 8 and is secured to the lever 18. The rod 19 extends through the tube 8 near the pouring end of the spout 12 and is embedded in a closure cover 20 for the spout. Near the spout end of the rod 19, a bead 21 is provided on the rod which acts as a limit stop for the movement of the cover 20 and the closure 15 in open and closed positions respectively thereof as shown in Fig. 2. The cover 20 comprises a weight for actuating the closure 15.

In the position of the dispenser as shown in Fig. 1, the cover 6 may be removed to fill the container 1 with sugar or other desired material. Thus the sugar falls as indicated by the arrow into the bowl 10 through the opening 13 to fill the bowl corresponding to a measured amount as for instance, a quantity equivalent to a spoonful. When it is desired to pour the measured quantity of sugar from the dispenser, that is from the bowl 10, it is tilted from the position of Fig. 1 to that shown in Fig. 2 in which the cover 20 automatically lifts or falls off from the spout 12 and at the same time the closure 15, closes the opening 13 to prevent the entry of any sugar in the container. Thus the sugar which was in the bowl 10 in Fig. 1 now flows or slides down the tube 8, Fig. 2 and out through the pouring spout as a measured quantity of sugar. To obtain a second quantity of sugar, the dispenser is tilted back from the position of Fig. 2 to Fig. 1 and then back to Fig. 2.

I claim as my invention:

1. A dispenser for sugar and other materials comprising a container, a cover for the container having an opening therein, a tube in the container projecting at its outer end through the opening in the cover to form a pouring spout and at the other end having an enlarged bowl, said bowl having an opening therein through which the sugar may pass into the bowl, a closure for the bowl, a closure cover for the pouring spout, and means interconnecting the closure for the bowl and the closure cover for the pouring spout whereby both may operate simultaneously and alternately to open and closed positions.

2. A dispenser according to claim 1, in which the closure cover for the pouring spout is weight-

ed whereby when the dispenser is tilted, the closure cover will not only uncover the pouring spout, but will also close the opening in the bowl by means of the closure therefor and the interconnecting means.

3. A dispenser according to claim 1, in which the cover for the container is provided with an inwardly directed guide flange to aid in securing and supporting the tube.

4. A dispenser according to claim 1, in which the cover is provided with an opening provided with a removable cover through which the sugar is filled into the container.

5. A dispenser according to claim 1, in which the interconnecting means constitutes a rod with a bead thereon to limit the movement of the spout closure and rod to a position where the bowl closure closes its opening.

6. A dispenser for sugar and other materials comprising a container, a tube in the container having at one end a pouring spout and at the other end an enlarged bowl, said bowl having an opening therein in which the sugar may pass into the bowl, a closure for the bowl, a closure cover for the pouring spout, and means interconnecting the closure for the bowl and the closure cover for the pouring spout whereby both may operate simultaneously and alternately to open and closed positions.

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