Feb. 28, 1939. J. J. ROTHSTEIN 2,148,840

DISPENSING BOTTLE

Filed July 16, 1938

Fig. 1.

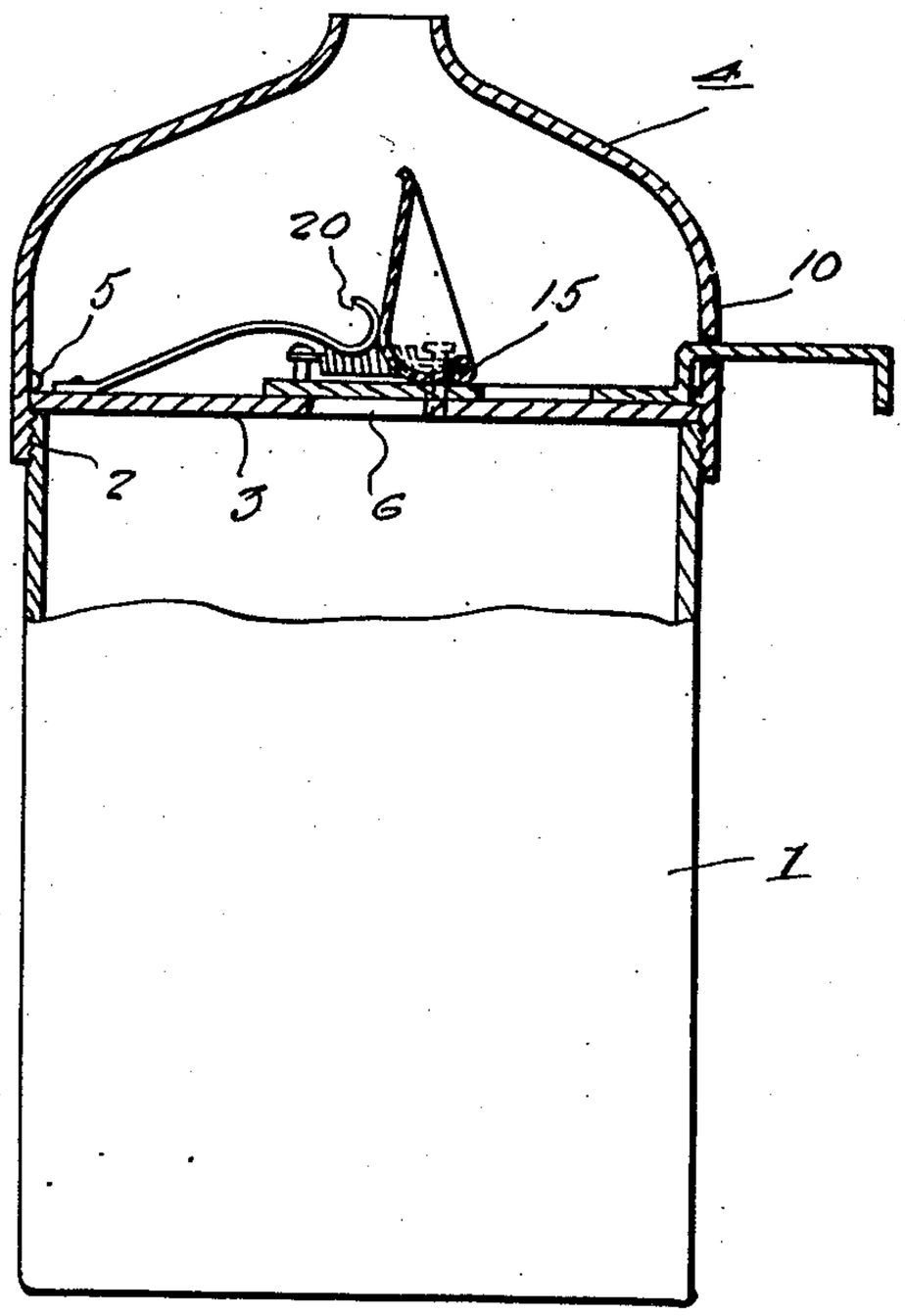
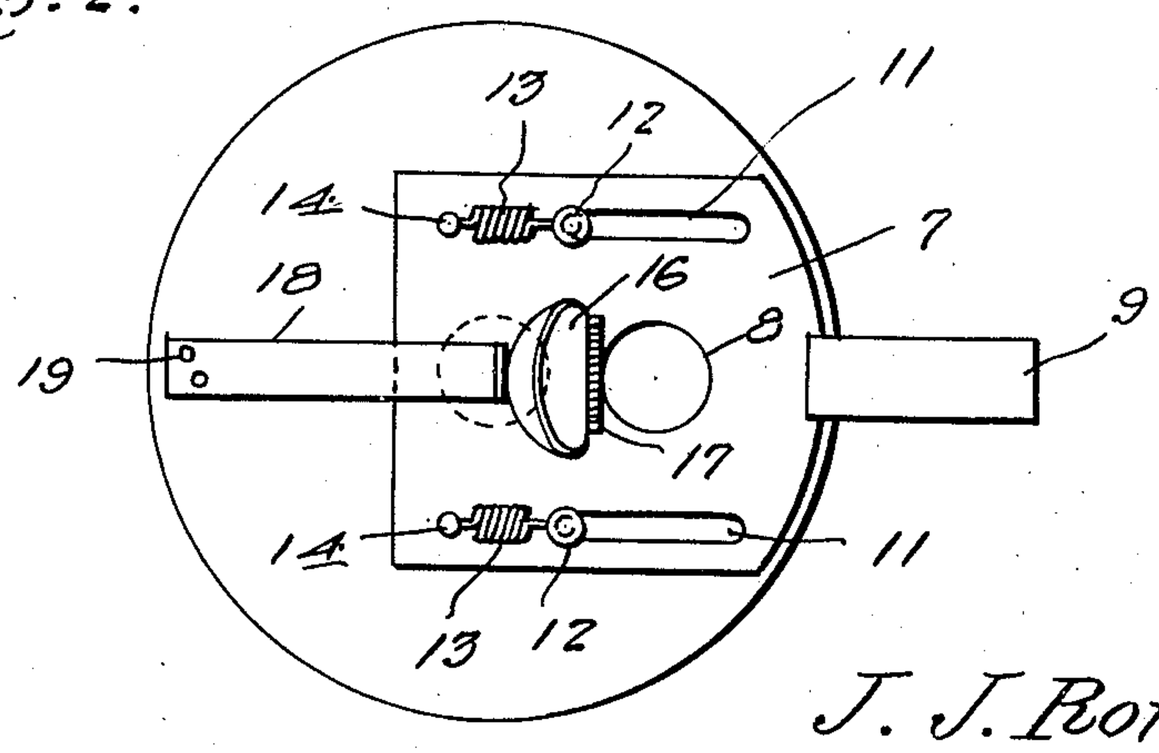


Fig. 2.



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DISPENSING BOTTLE

John Joseph Rothstein, Paterson, N. J.

Application July 16, 1938, Serial No. 219,653

3 Claims. (Cl. 221—112)

My invention relates to improvements in dispensing bottles or jars, such as are used in restaurants to dispense sugar, or other contents.

The principal object of the invention is to provide an inexpensive device of this character equipped with manipulative means easily and quickly operated to dispense the contents of the bottle a teaspoonful at a time, and which will not get out of order, and may be easily kept in a sanitary condition.

To the accomplishment of the foregoing and subordinate objects presently appearing, a preferred embodiment of my invention has been illustrated in the accompanying drawing, set forth in detail in the succeeding description and defined in the claims appended hereto.

In said drawing:

Figure 1 is a view partly in side elevation and partly in vertical section of a bottle equipped according to my invention, and

Figure 2 is a view in top plan with the cap removed.

Referring to the drawing by numerals, the bottle of my invention comprises a jar-like body 1 having an externally threaded open end 2, and a closure disk 3 for said end clamped against the same by a dome-shaped nozzle-like cap 4 threaded onto said end and having an internal bead 5 engaging the outer face of the disk 3.

The disk 3 is provided with a central aperture 6 for the pouring of the contents of the body 1 out of the same. Within the cap 4 is a slide 7 endwise movable on the disk 3 from a normal position inwardly of said cap to register an aperture 8 therein with the aperture 6, said slide in the normal position thereof closing the aperture 6, as shown in Figures 1 and 2. The slide 7 has an end extension 9 projecting through a slot 10 in the cap 4 outside of the latter and functioning as a thumb, or finger piece, by means of which said slide may be shoved inwardly. A pair of side slots 11 are provided in the slide 7 through which screws 12 extend into the disk 3, said slots coacting with said screws to establish the normal position of the slide 7 and to limit the inward movement thereof. A pair of coil springs 13, the opposite ends of which are suitably connected to said slide, as at 14, and to said screws 12, tension the slide 7 against inward movement and urge the same into normal position.

Pivotally mounted on the slide 7, as at 15, for movement in opposite directions to open and close the aperture 8 of said slide, respectively, is a measuring cup 16 adapted to hold a teaspoonful and urged toward opening position by a coil spring suitably related thereto. As will be understood the arrangement of the measuring cup 16 is such that when the bottle is tilted in one direction and the slide 7 manipulated inwardly to register the aperture 8 thereof with the aperture 6 in the disk 3, the contents of the body 1 may be poured through said apertures into said cup.

Under inward manipulation of said slide 7, the measuring cup 16 is urged toward closing position against the tension of the spring 17 by means of a leaf spring 18 located in the path of movement of said cup, under inward movement of said slide, said spring 18 having one end secured, as at 19, to the disk 3 and the other end thereof curved, as at 20, and bearing against the bottom of the cup 16 in offset relation to the pivot 15 of said cup.

The operation of the described invention will be readily understood. The bottle is first tilted in the proper direction to the proper angle and the slide 7 manipulated inwardly by pressure of the finger, or thumb, on the extension 9. Under such manipulation of said slide 7, the cup 16 is correspondingly moved bodily in opposition to the spring 18. When the slide 7 has been moved into the limits of its inward movement, as established by the slots 11 and screws 12, the cup 16 is closed over the aperture 8 and said aperture registered with the aperture 6. Consequently, the contents of the body 1 fill said cup 16. Upon release of pressure on the extension 9, the slide 7 is moved into normal position by the springs 13 to close off the aperture 6 and the cup 16 flies open under the urge of the spring 17 so that the contents thereof may be poured out of the cap 4.

The foregoing, will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing from the inventive concept and right is herein reserved to such modifications as fall within the scope of the subjoined claims.

What I claim is:

1. A dispensing bottle comprising a jar-like container, a disk-like closure element for said container having a pouring aperture therein, a nozzle-like cap secured on said container and covering said aperture, means to open and close said aperture at will including a manipulative slide having a pouring aperture therein and mounted on said element for movement in opposite directions to position the aperture thereof into and from registering relation to said pouring aperture,

a measuring cup mounted on said slide for movement in opposite directions to open and close, respectively, the aperture thereof, and means to cause movement of said cup in opposite directions rendered effective under such movement of said slide.

2. A dispensing bottle comprising a jar-like container, a disk-like closure element for said container having a pouring aperture therein, a nozzle-like cap secured on said container and covering said aperture, means to open and close said aperture at will including a manipulative slide having a pouring aperture therein and mounted on said element for movement in opposite directions to position the aperture thereof into and from registering relation to said pouring aperture, a measuring cup mounted on said silde for movement in opposite directions to open and close, respectively, the aperture thereof, and means to cause movement of said cup in opposite directions rendered effective under such movement of said slide, including a spring tending to move said cup in one direction, and an abutment member on said element against which the cup is moved under movement of the slide to cause movement of the cup in an opposite direction.

3. A dispensing bottle comprising a jar-like container, a disk-like closure element for said container having a pouring aperture therein, a nozzle-like cap secured on said container and covering said aperture, means to open and close said aperture at will including a manipulative slide having a pouring aperture therein and mounted on said element for movement in opposite directions to position the aperture thereof into and from registering relation to said pouring aperture, a measuring cup mounted on said slide for movement in opposite directions to open and close, respectively, the aperture thereof, means to cause movement of said cup in opposite directions rendered effective under such movement of said slide including a spring tending to move said cup into opening position, and an abutment on said element with which said cup is wipingly engaged under movement of the slide to cause movement of said cup in an opposite direction.

JOHN JOSEPH ROTHSTEIN.