

June 23, 1925.

F. F. CANTON
DISPENSING CONTAINER

1,543,097

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Fig. 1.

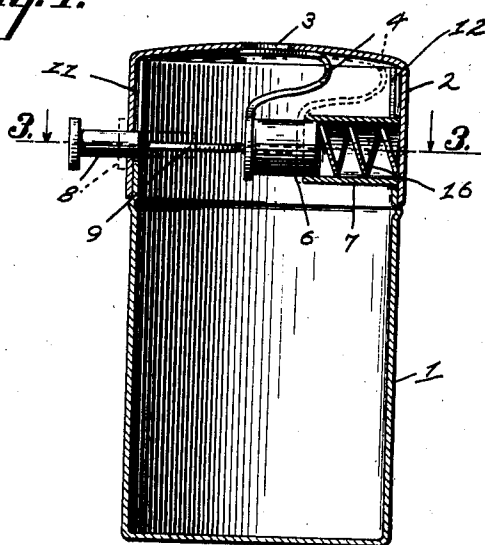


Fig. 2.

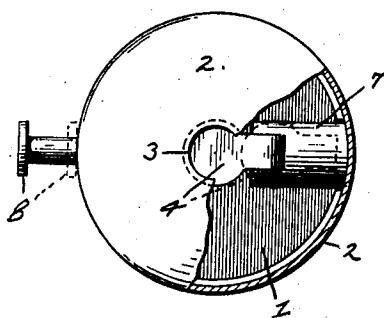


Fig. 3.

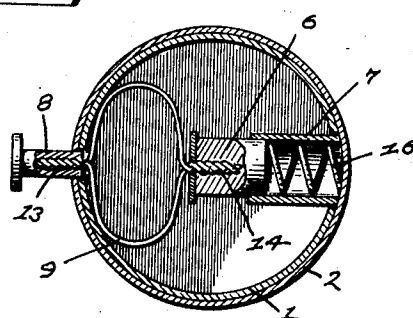


Fig. 4.

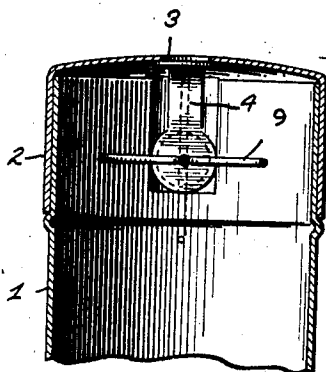
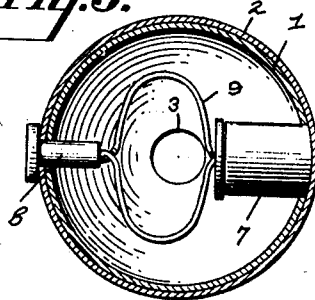


Fig. 5.



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UNITED STATES PATENT OFFICE.

FREDERICK F. CANTON, OF SAN RAFAEL, CALIFORNIA.

DISPENSING CONTAINER.

Application filed February 4, 1924. Serial No. 690,541.

To all whom it may concern:

Be it known that I, FREDERICK F. CANTON, a citizen of the United States, residing in the city of San Rafael, in the county of Marin and State of California, have invented a new and useful Improvement in a Dispensing Container, of which the following is a specification.

My invention relates to improvements in dispensing containers adapted to normally keep the contents of the container effectually enclosed, and to dispense small quantities of the substance as required.

The primary object of my invention is to provide an improved dispensing container adapted to be easily operated by one hand for dispensing a very small quantity of substance onto a finger tip of the user.

Another object is to provide a device of the character described having improved means for normally closing the container.

A further object is to provide an improved construction which will facilitate the opening of the container for use and which will avoid causing any obstruction to the free dispensing substance from the container.

A still further object is to provide an improved construction which can be economically manufactured and which will present a neat and attractive appearance.

I accomplish these and other objects by means of the device disclosed in the drawings forming a part of the present specification wherein like characters of reference are used to designate similar parts throughout said specification and drawings and in which,

Fig. 1 is a vertical section of my improved dispensing container.

Fig. 2 is a plan view of the container, a portion of the top being broken away to show the closing means.

Fig. 3 is a transverse section taken upon the line 3-3 of Fig. 1 in the direction indicated.

Fig. 4 is a broken vertical section of the top of container taken at right angles to Fig. 1.

Fig. 5 is a transverse section taken upon the line 3-3 of Fig. 1 in the direction opposite to that indicated by the arrows.

Referring to the drawings my invention will be seen to consist of a cylindrical body portion 1 open at one end thereof. A cap 2 is detachably mounted upon the open end of

the body 1, said cap 2 having a centrally disposed dispensing aperture 3.

A closing element 4 is arranged to normally close the aperture 3, said element 4 being mounted within the cap 2 in connection with a plunger 6 slidably mounted within a cylindrical guide 7 secured in transverse position within the cap. An actuating member 8 extends outwardly through the side of the cap 2 in axial alignment with the plunger 6 and guide 7 and is connected to the plunger by means of a link 9 whereby the plunger and the closing element 4 may be reciprocated within the cap. The body 1 is slotted as at 11 and 12 to admit the guide 7 and the actuating member 8 when the cap is applied.

The top of the cap is made slightly arched and the upper portion of the closing element 4 is made of corresponding curvature. The closing element 4 is made of spring material and is so shaped that when assembled into the cap 2, a slight spring pressure will tend to hold the upper portion of said element in close contact with the inner surface of the cap whereby the aperture 3 will be tightly closed when the element 4 is in closing position as shown in Figs. 1 and 3 of the drawings. When the closing element 4 is moved to uncover the aperture 3, the upper portion is held closely against the top of the cap 2 by the spring pressure, thereby preventing any of the substance being dispensed from entering between the top of the cap and the closing member.

The link 9 is preferably made from two strands of wire having their ends twisted together as at 13 and 14 as best shown in Fig. 3 of the drawings, said twisted ends forming spiral threads by which one end of the link is screwed into the plunger 6 while the opposite end is screwed into the actuating member 8. The intermediate portions of the strands are spread apart to form a loop substantially larger than the aperture 3. The loop is normally disposed in a plane at right angles to the axis of the container so that the strands will be positioned out of axial alignment with the aperture 3 thereby avoiding the causing of any obstruction to the passage of substance from the container to the dispensing aperture when the closing element 4 is moved to the open position as shown in Fig. 5 of the drawings.

In operation the closing element 4 is nor-

5 mally held in closing position by means of a spring 16 mounted within the guide 7, the movement of the plunger 6 away from the guide 7 being limited by the loop
10 formed in the link 9 which is moved to engage the opposite side of the container. The device is intended primarily for dispensing small quantities of a substance contained within the body 1 onto the tip of a
15 finger. In this connection the container may be grasped in the hand of the user in such a position that the tip of a finger may be held against the aperture 3 and the actuating member 8 pressed inwardly by the
20 thumb. The container is then tipped or otherwise manipulated to cause the contents of the container to be moved to the dispensing aperture. As the tip of the finger is held against the aperture none of
25 the substance will be lost, but a small quantity usually sufficient to meet the immediate need of the user, adheres to the finger tip and may be used in the usual manner. Should
30 greater quantities of the substance be required, the finger tip may of course be removed from over the aperture 3 to permit the free dispensing of substance in any quantity required.

From the above description it will be seen
35 that I have provided a device which may be easily operated with only one hand, and which will keep the container effectively closed when not in use. The several parts

are of simple and cheap construction and may be readily assembled, thereby affording 35 economy in manufacture.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is,

A dispensing container comprising a 40 body; a cap detachably connected to the body, said cap having a centrally disposed dispensing aperture; a transversely disposed cylindrical guide secured within the cap; a plunger mounted within the guide; a closing 45 element connected to the plunger and arranged to engage the inner surface of the can to close the dispensing aperture; an actuating member extending outwardly through the side of the cap; and a link 50 connecting the actuating member and the plunger, said link being formed from two strands of wire having their adjacent ends twisted together to form threads adapted for screwing into the plunger at one end and 55 into the actuating member at the opposite end, the intermediate portions of said strands being spread apart out of alignment with the dispensing aperture to avoid causing an obstruction to the passage of 60 substance therethrough when the plunger and closing element are moved to the open position.

In witness whereof I hereto set my signature.

FREDERICK F. CANTON.