Feb. 1, 1944. W. C. OURSLER 2,340,681

COLLAPSIBLE TUBE HOLDING AND DISPENSING MEANS

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Fig 1

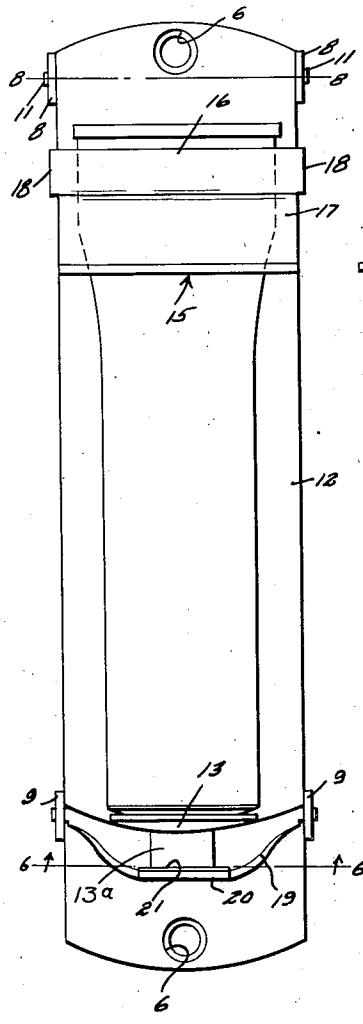


Fig 2

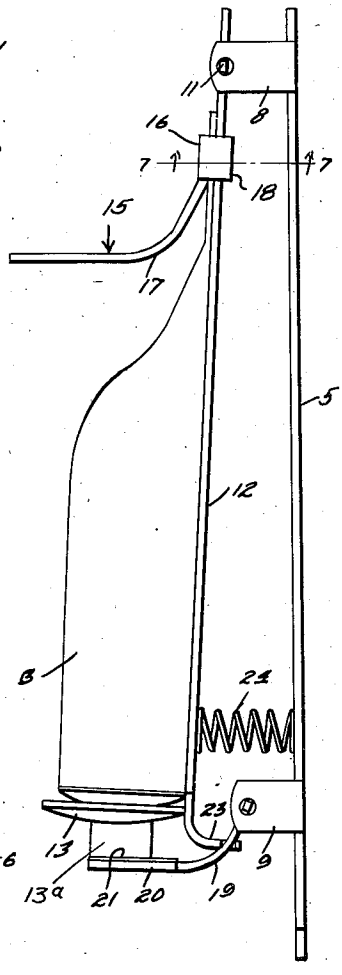


Fig 11

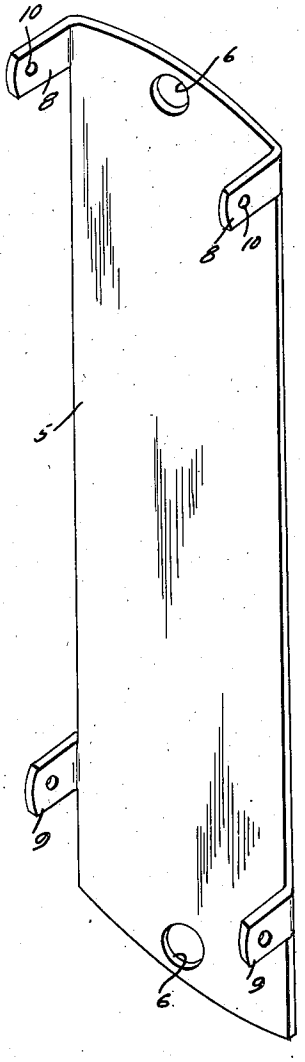
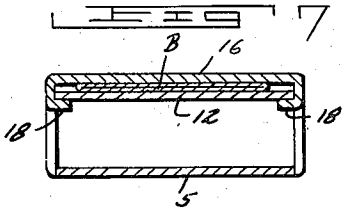


Fig 7



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COLLAPSIBLE TUBE HOLDING AND DISPENSING MEANS

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Fig 3

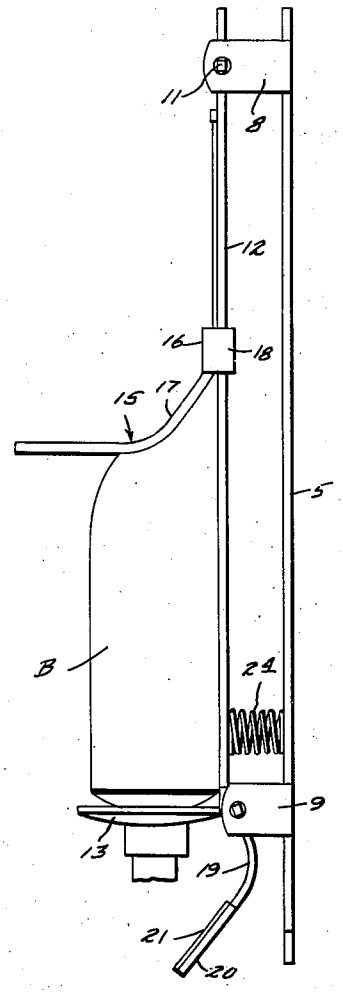


Fig 4

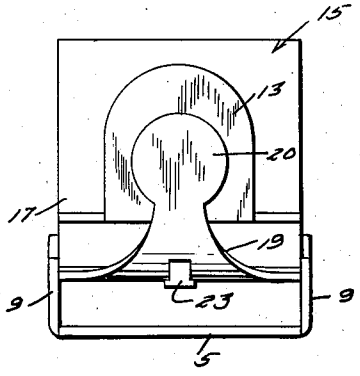


Fig 12

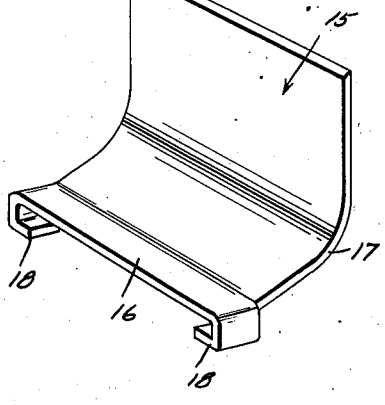
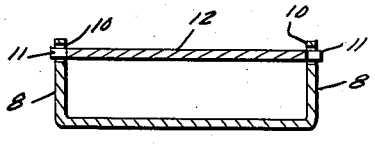


Fig 8



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COLLAPSIBLE TUBE HOLDING AND DISPENSING MEANS

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FIG 5

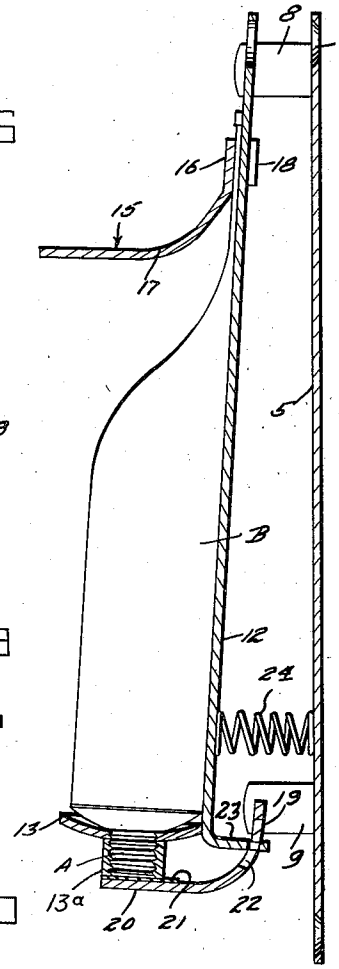


FIG 12

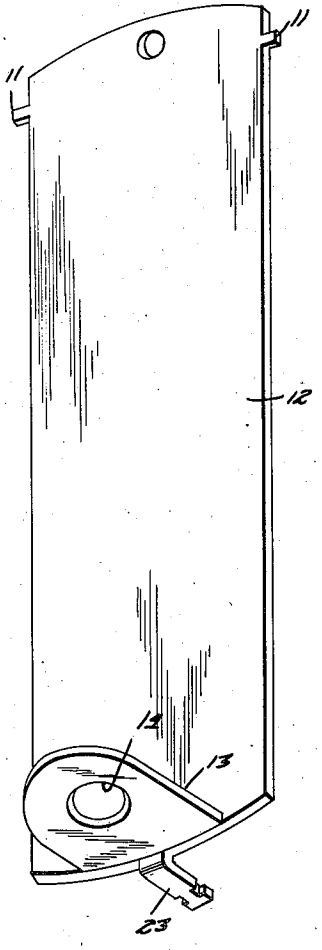


FIG 6

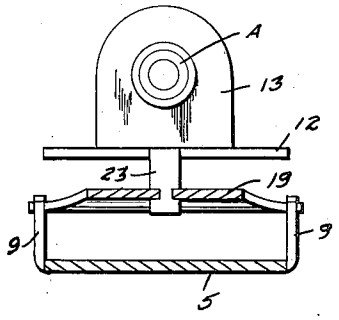


FIG 9

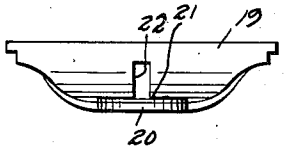
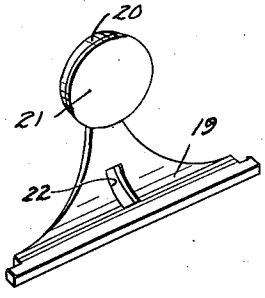


FIG 10



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Patented Feb. 1, 1944 2,340,681

UNITED STATES PATENT OFFICE

2,340,681

COLLAPSIBLE TUBE HOLDING AND DISPENSING MEANS

William C. Oursler, Jacksonville, Fla.

Application April 8, 1942, Serial No. 438,182

2 Claims. (Cl. 221—60)

This invention appertains to new and useful improvements in means for holding collapsible tubes and dispensing the contents thereof.

The principal object of the present invention is to provide a device of the character stated which by the action of a single hand movement will both open the held tube and compress the same to discharge some of its contents.

Another important object of the invention is to provide a handy device of the character stated which can be constructed at low cost and quickly installed for use.

Other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawing—

Figure 1 is a front elevational view.

Figure 2 is a side elevation.

Figure 3 is a side elevational view with the parts in actuated position.

Figure 4 is a bottom plan view.

Figure 5 is a vertical sectional view.

Figure 6 is a cross sectional view taken substantially on the line 6—6 of Figure 1.

Figure 7 is a cross sectional view taken substantially on the line 7—7 of Figure 2.

Figure 8 is a cross sectional view taken substantially on the line 8—8 of Figure 1.

Figure 9 is a front elevational view of the closure.

Figure 10 is a perspective view of the closure.

Figure 11 is a perspective view of the wall plate.

Figure 12 is a perspective view of the carrier plate.

Figure 13 is a perspective view of the compressor.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes a vertically disposed substantially rectangular-shaped wall plate having openings 6 at the upper and lower ends thereof to accommodate suitable wall attaching means.

Forwardly disposed lugs 8, 8 are provided at the upper end of the plate 5, while adjacent the lower end are forwardly disposed lugs 9, 9.

The lugs 8, 8 are formed with openings 10 to receive pintles 11 projecting laterally from the upper end portion of a rectangular-shaped carrier plate 12.

The lower portion of the carrier plate 12 has a forwardly projecting rest plate 13 having an opening 14 therein for receiving the neck portion A of an inverted collapsible tube B, such as is used for toothpaste, shaving cream and other substitutes. An internally threaded collar 13a is disposed on the threaded neck A of the tube B and against the underside of the rest 13 to firmly hold the lower end of the tube.

A compressor, for compressing the tube B is shown in Figure 13. This compressor is in the form of a plate 15 having a flat portion 16 for riding the flattened tail portion of the tube B and an arcuate portion 17 for engaging and compressing the tube to discharge the contents.

As can be seen clearly in Figures 5 and 13, the flat portion 16 has inturned lugs 18 which ride the back side of the carrier plate 12. The compressor is normally disposed against the filled portion of the tube as shown in Figure 3.

Between the lugs 9, 9 is a closure consisting of a tapered and arcuate plate 19, the reduced end portion of which merges or is secured to a head 20, which may have some suitable packing plate 21 thereon.

The plate 19 has a slot 22 therein for receiving a short arm 23 projecting rearwardly from the lower end of the carrier plate 12, this short arm 23 being notched to receive the edge portions of the plate 19 at the opening 22.

A compression spring 24 is interposed between the wall plate 5 and the carrier plate 12 for the purpose of maintaining the lower portion of the carrier plate 12 urged outwardly with respect to the plate 5. In this position of the plate 12, the arm 23 is exerting a pull on the closure plate 19 holding the head 20 in closed position over the neck A of the tube B.

When a downward push is given on the compressor 15, the carrier plate 12 is rocked against the spring 24 and the parts moved to the position shown in Figure 3, the closure plate 19 being lowered to the position shown in Figure 3 while compressing action on the tube B by the curved portion 17 of the compressor 15 dislodges some of the contents of the tube.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

1. A collapsible tube holder and dispenser comprising a supporting plate, a carrier plate swingably supported on the supporting plate, means for supporting the collapsible tube on the carrier plate, a swingable closure supported by the supporting plate, spring means for urging the carrier plate outwardly with respect to the sup-

porting plate, a connection between the carrier plate and the closure for holding the closure in closed position with respect to the discharge end of a collapsible tube on the carrier plate, and a slidable compressor on the carrier plate for compressing a collapsible tube on the carrier plate and swinging the carrier plate to actuate the closure to open position.

2. A collapsible tube holder and dispenser comprising a supporting plate, a carrier plate swingably supported on the supporting plate, means for supporting the collapsible tube on the carrier plate, a swingable closure supported by the supporting plate, spring means for urging the carrier plate outwardly with respect to the supporting plate, a connection between the carrier plate and the closure for holding the closure in closed position with respect to the discharge end of a collapsible tube on the carrier plate, and a slidable compressor on the carrier plate for compressing a collapsible tube on the carrier plate and swinging the carrier plate to actuate the closure to open position, said compressor comprising a flat plate portion for riding a collapsible tube, inturned lugs for embracing the edge portions of the carrier plate, and an outwardly curved plate portion against which manual pressure can be exerted in driving the compressor against a collapsible tube on the carrier plate.

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