Oct. 7, 1924. 1,510,848

A. G. HUBBARD

HOLDER FOR COLLAPSIBLE TUBES

Filed April 13, 1922

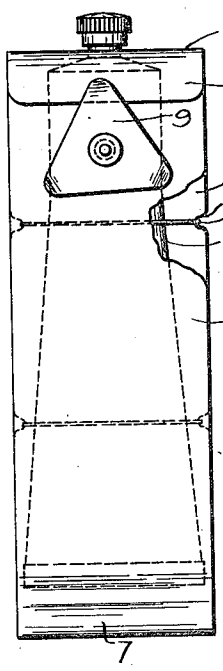


Fig. 1.

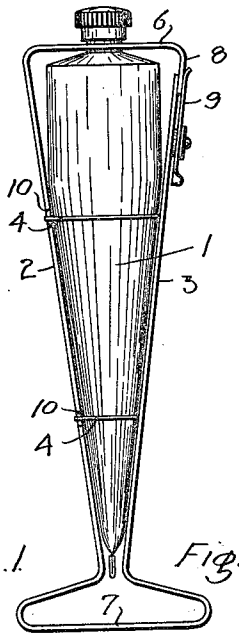


Fig. 2.

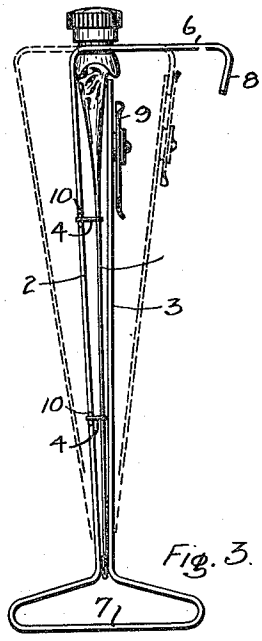


Fig. 3.

Fig. 4

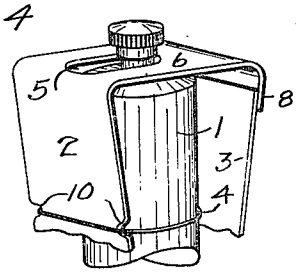


Fig. 5.

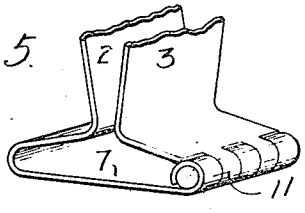


Fig. 6.

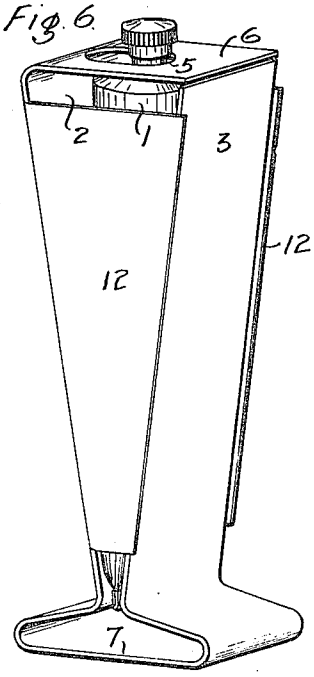
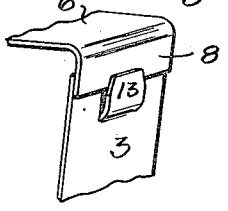


Fig. 7.



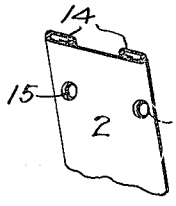


Fig. 8.

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UNITED STATES PATENT OFFICE.

ARTHUR G. HUBBARD, OF WHEELING, WEST VIRGINIA.

HOLDER FOR COLLAPSIBLE TUBES.

Application filed April 13, 1922. Serial No. 552,359.

To all whom it may concern:

Be it known that I, ARTHUR G. HUBBARD, a citizen of the United States, residing at Wheeling, in the county of Ohio, State of West Virginia, have invented certain new and useful Improvements in Holders for Collapsible Tubes, of which the following is a specification.

This invention relates to devices adapted to hold a collapsible tube such as are commonly used to contain salves, pastes, creams or other similar materials. The objects of my invention are to provide means into which such a tube may be quickly inserted; which will protect the tubes at all times; which can be stood upright; which can be operated to squeeze the contents of the tube from its orifice; which can be latched so that the tube cannot be squeezed therein without unlatching it; which retains its shape and form independent of the amount of material in the tube; which has a permanent surface suitable for the display of instructions, advertisements and other announcements; which is cheap to make, easy to operate, and handy to use.

I attain these and other objects by the devices, mechanisms, and arrangements illustrated in the accompanying drawings, in which:—

Fig. 1 is a front elevation of my device, a part of the front thereof being broken away to reveal the tube therein;

Fig. 2 is a side elevation thereof, with a full tube therein;

Fig. 3 is a similar view showing the tube almost emptied;

Fig. 4 is a perspective view of the upper portion thereof;

Fig. 5 is a similar view of the lower portion thereof, showing a variation in the connection between the base and the front plate;

Fig. 6 is a perspective view of another form of my device, showing especially the side plates thereof;

Fig. 7 is a similar view of one form of the latching device between the top plate and the front plate; and

Fig. 8 is a similar view of one form of opening in the back plate through which the attaching means is passed.

Similar numerals of reference refer to similar parts throughout the several views.

This holder is a development of my former invention as set forth in my application for patent for container for collapsible tubes, filed on Dec. 22nd, 1921, under Serial No. 524209.

Referring to the drawings it will be seen that the collapsible tube 1 is supported between two flat plates 2 and 3, being attached to the back plate 2 by means of rubber bands 4, or other suitable means, and having its neck extending through a slot 5 in the upper flat plate 6. The three plates 2, 3 and 6 are preferably all cut from the same piece and are suitably bent to form the rear front and top of the closure adapted to hold the tube between them. Also I prefer to so form the said plates that a broadened base part 7 is formed, such part being flat and adapted to support the device and the tube in an upright position. The upper plate 6 is preferably bent downward along its front edge and this part 8 extends outside of and slightly below the upper edge of the front plate 3. A latch 9, consisting of a plate pivoted to the front outer surface of the plate 3, is adapted to engage outside of the part 8 to latch the plates 3 and 6 together, said latch 9 being adapted to turn on its pivot so as to be withdrawn from such engaging position when it is desired to use the front plate to compress the tube to force part of its contents through the orifice in its neck in the usual manner. The bands 4, which hold the tube 1 in place between the plates 2 and 3, are preferably held in position by engaging notches 10 made at suitable intervals in the edges of the rear plate 2.

There are, of course, many variations which may be incorporated in such a device without departing from the main idea of the invention, for instance:—

The plate 3 may be hinged to the base 7, as at 11 in Fig. 5, whereby it has a substantially similar movement relative to the back plate 2 but can be made of stiffer material. Or, as shown in Fig. 6, the sides of the back plate 2 may be extended and bent forward to form side plates or closures 12 and thus hold the tube in place. In this case the latch may be omitted because the said sides 12 will largely protect the plate 3 from being accidentally forced inward to compress the tube. In Fig. 7 is shown a variation of the means for latching the plates 3 to the front part 8 of the top plate 6. This consists in cutting the said plate 3 in such a manner as to form a lip 13 which is then bent slightly out from the plane of

the plate 3, and which is thus adapted to engage the edge of the part 8 between it and the plate 3. If desired the lip 13 could be made on the part 8 to engage the plate 3. Also in Fig. 8 I illustrate a means of stiffening the plates by rolling their edges, as at 14, and, in that case I prefer to have holes 15 passing through such reenforced parts instead of cutting notches in the edge, as at 10.

It is evident that this invention enables the tubes 1 to be shipped direct in such holders, if desired, since the latches will prevent the tubes from being compressed; that when in use they may be stood in upright position on the base 7; that to insert a tube into such a holder it is only necessary to slip the rubber bands down, out of the way, then pass the tube sideways between the two plates 2 and 3 and insert the neck of the tube upward through the slot 5 in the upper plate 6, and then push the lower part of the tube into place and replace the rubber bands by passing them around said lower part of the tube and then upward into their proper places. In the form shown in Fig. 6 the tube must be passed into place by opening outward the front plate so as to permit the tube to be inserted between it and the front edge of the upper plate 6.

Having described my invention, what I claim is:

1. In a holder for collapsible tubes, the combination of a casing having a flat base whereon it may stand erect, two walls arranged in substantially V-shaped formation and extending upward from the center of said base, said walls being adapted to be moved towards each other under external pressure; a collapsible tube between said walls, the closed end of the tube being adjacent the base; and means engaging one of said walls and passing around the tube whereby the tube is attached to the said wall.

2. A holder for collapsible tubes as set forth in claim 1, together with an upper plate extending parallel to the base from the wall to which said tube is attached, said upper plate engaging the upper portion of the tube to hold it down between the V-shaped walls.

3. A holder for collapsible tubes as set forth in claim 1, wherein said tube-attaching means consists of elastic bands surrounding the wall and the tube.

4. A holder for collapsible tubes as set forth in claim 1, wherein said wall having the tube-attaching means is provided with means for securing the tube-attaching means in place, and wherein said tube-attaching means consists of elastic bands engaging said securing means on the wall and passing around the said wall and the collapsible tube to attach the tube to the wall.

Signed at Wheeling, in the county of Ohio, State of West Virginia, this 11th day of April, 1922.

ARTHUR G. HUBBARD.