May 4, 1926. 1,583,457

H. J. HAMMERLY

HOLDER FOR COLLAPSIBLE DISPENSING TUBES

Filed April 1, 1924

Fig 1

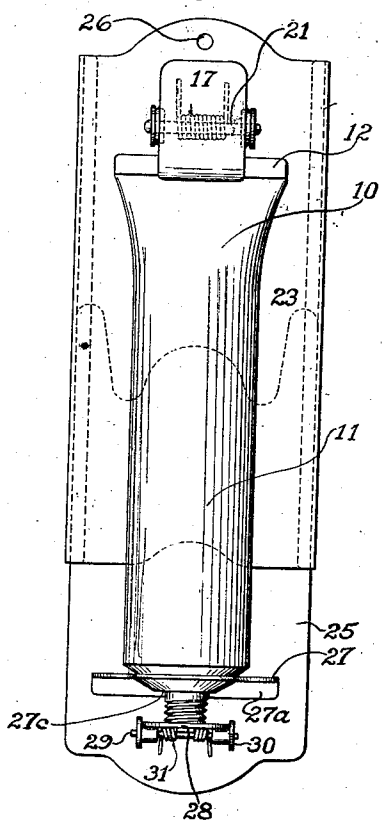


Fig 2

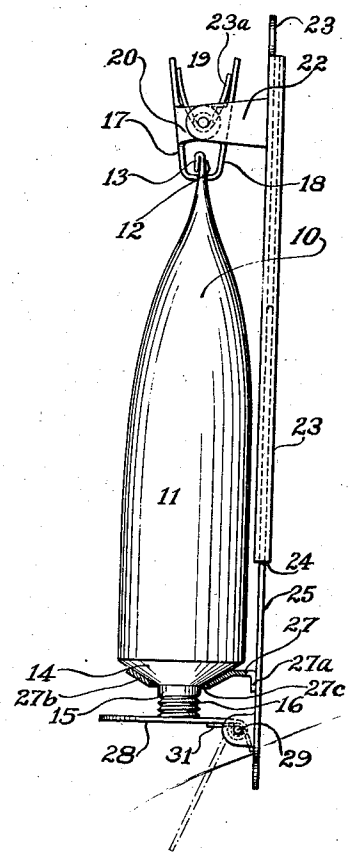
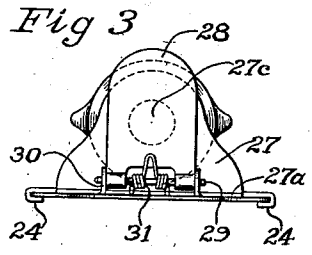


Fig 3



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UNITED STATES PATENT OFFICE.

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HOLDER FOR COLLAPSIBLE DISPENSING TUBES.

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To all whom it may concern:

Be it known that I, HERMAN J. HAMMERLY, a citizen of the United States, and a resident of Wallingford, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Holders for Collapsible Dispensing Tubes, of which the following is a specification.

This invention relates to toilet articles and more particularly to a holder for collapsible tubes containing tooth paste, shaving cream, and the like.

One object of the invention is to provide a tube holder of the above nature which will be adjustable to fit tubes of various sizes.

A further object of the invention is to provide a device of the above nature in which the tube may be readily detached and replaced by a new one whenever desired.

A further object is to provide a device of the above nature which will be simple, inexpensive to manufacture, easy to manipulate, compact in size, and very efficient and durable in use.

With these and other objects in view there has been illustrated on the accompanying drawings one form in which the invention may be conveniently embodied in practice.

Fig. 1 represents a front view of a tube holder embodying the principles of the invention.

Fig. 2 is a side view of the same.

Fig. 3 is a bottom view of the same.

Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 indicates a tube of paste, such as tooth paste, shaving cream, etc. The tube 10, which is preferably made of any suitable bendable metal such as lead, is provided with a cylindrical body portion 11, and has one end flattened at 12 with its extremity 13 bent over as is usual in collapsible dispensing tubes of this nature. The discharge end of the tube is provided with the usual conical shoulder portion 14 terminating in the usual neck portion 15, having its lower end 16 threaded to receive the usual screw cap, not shown.

As will be clear from Figs. 1 and 2, the flattened end 12 of the tube is adapted to be held between a pair of jaws 17 and 18 of a spring clamp 19. The jaws 17 and 18, which are preferably formed from flat strips of metal are provided with side ears 20 apertured to fit a pivot pin 21, said pin 21 being mounted in a pair of upstanding lugs 22 forming an integral part of an upper plate 23. A spiral spring 23^a surrounding the pin 21 serves to press the ends of the jaws together.

As clearly shown in Fig. 1, the upper plate 23 is flat and substantially rectangular. It has straight parallel side edges which are bent rearwardly at 24, and inwardly parallel to the plate to form guideways for slidably receiving a lower plate 25, cooperating with said upper plate. The top edge of the upper plate and the lower edge of the lower plate are preferably rounded outwardly as shown, and an aperture 26 is provided near said top edge to fit over a suitable hook upon which the holder is to be hung.

The lower plate 25 is adapted to telescope within the upper plate so as to permit the tube holder to be adjusted to the particular size of tube to be held therein.

In order to form a seat for the conical shoulder portion 14 of the tube, the lower plate 25 is provided with a rigid upstanding neck-holder 27, having a flange 27^a adapted to be soldered or welded to the plate 25. The neck-holder 27 is provided with a conical cupped portion 27^b having an aperture 27^c of greater diameter than the neck 15 of the tube. By means of this construction, the discharge end of the tube will be permitted to extend downwardly through the rigid neck-holder 27, as clearly shown in Figs. 1 and 2.

For the purpose of closing the open end of the neck portion 15 of the tube, a flat wing member 28 is provided, said wing member being pivotably mounted on a pin 29 supported in a pair of ears 30 on the lower plate 25, said ears 30 being preferably bent up from the metal of said plate. The wing member 28 is adapted to be pressed upwardly against the open end of the tube at all times by a spiral spring 31 surrounding said pin 29.

In operation when it is desired to insert a dispensing tube in the holder, the screw cap is first removed from the neck of the tube and discarded. The flat end of the tube is then inserted between the jaws of the spring clamp 19, by means of which the tube will be suspended in a vertical position with its neck portion downward. The upper and lower plates 23 and 25 are next adjusted relatively until the conical shoulder

14 of the tube is seated in the rigid neck holder 27 with the neck portion 15 depending downwardly therethrough. The discharge opening in the neck portion 15 will normally be closed by the flat wing member 28.

When it is desired to use the device, the operator will move the wing member 28 downwardly about its pivot and against the action of the spring 31. He will then insert a brush beneath the uncovered end of the neck 15 of the tube, and squeeze the sides of the tube together until the required quantity of paste has been forced out upon the brush. The brush may then be removed and the wing member 28 released, permitting it to close under the action of the spring 31.

One advantage of this invention is that after a tube has been installed in the holder, the desired supply of paste may be very easily and quickly dispensed merely by swinging down the hinged wing member and squeezing the tube, and without the necessity of removing and replacing a screw cap as in the ordinary use of such tubes.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosure, but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claim.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent is:

In a holder for collapsible tubes containing paste to be dispensed, a base adapted to lie against a wall or other support, said base being composed of two telescoping parts which can be relatively adjusted to vary the length of the holder, a clamping member secured to the upper part of said base for supporting the closed end of the tube, a shelf secured to the lower part of said base for supporting the neck of said tube, and a spring-pressed plate hinged to the lower part of said base for normally closing the open end of said tube.

In testimony whereof, I have affixed my signature to this specification.

HERMAN J. HAMMERLY.