

1,310,083.

W. C. HUNTOON.
COLLAPSIBLE TUBE.
APPLICATION FILED MAR. 26, 1919.

Patented July 15, 1919.

Fig. 1

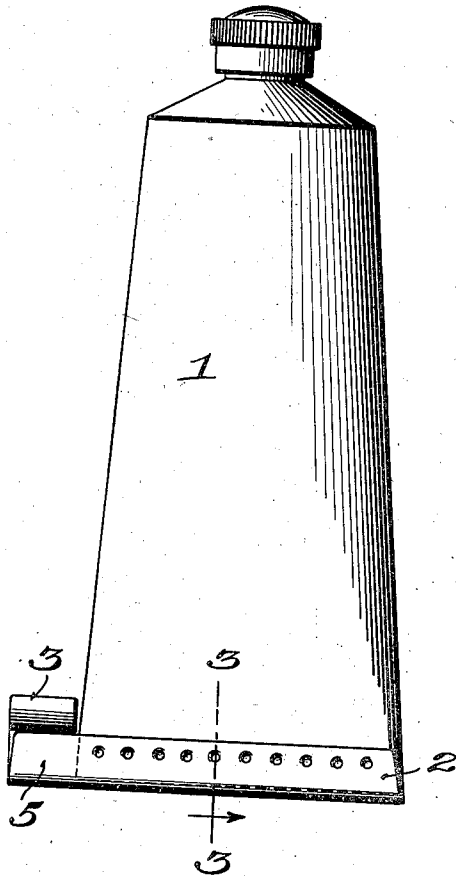


Fig. 2

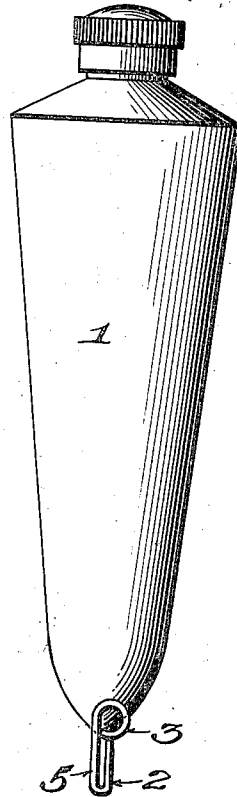


Fig. 3

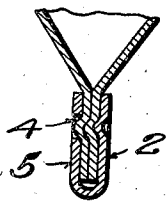
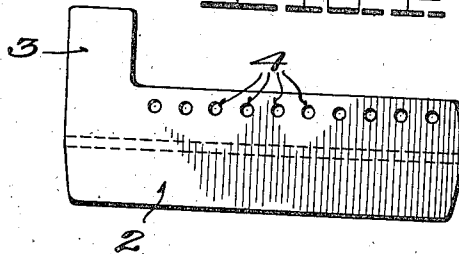


Fig. 4



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COLLAPSIBLE TUBE.

1,310,083.

Specification of Letters Patent.

Patented July 15, 1919.

Application filed March 26, 1919. Serial No. 295,257.

To all whom it may concern:

Be it known that I, WILLIAM C. HUNTOON, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Collapsible Tubes, of which the following is a specification.

This invention relates to certain new and useful improvements in a collapsible tube of the type commonly employed for containing and dispensing tooth paste, shaving cream and like material, and it has for its primary aim and object to provide means for conveniently expelling the paste from its collapsible container, such means being incorporated or embodied in the tube construction so as to form a permanent part thereof when sold to the purchasing public.

The invention consists in a clip-like attachment for the lower end of the tube and is extended to one side to provide a handle or hold whereby the clip may be rotated to thus wind the tube about it and thereby effect a collapsing of the container for expelling the paste contents from the opposite or discharge end of the tube.

In the drawing—

Figure 1 is a side elevation of a collapsible tube embodying the present invention.

Fig. 2 is an edge view thereof depicting the improvement in end elevation.

Fig. 3 is a fragmental vertical section through the lower end of a tube having the clip applied thereto, said view being taken about on line 3—3 of Fig. 1, and

Fig. 4 is a plan view of the blank from which the clip is formed.

Referring more in detail to the drawing, the numeral 1 designates the collapsible metal tube such as is commonly used in the dispensing of tooth paste to the public, the same having the usual screw cap closing its discharge end while its lower or bottom end, which is usually secured closed by a clip or doubling over of its bottom edge, has the improved clip applied thereto.

The clip is struck up from a blank 2 of more or less L-shape in design and being of a length greater than the width of the collapsed tube whereby the lateral projection or wing 3 will extend therebeyond, and along one edge of the body portion of the blank is

formed a row of perforations 4. The blank is bent along its longitudinal center to form a clip body of substantially U-section, and between the sides of this clip body are inserted the bottom edges of the tube after which, by means of a punch or the like, the metal is punched to interlock the several thicknesses as well as force tit-like projections into the perforations 4, as is depicted in Fig. 3, thereby securely fastening the clip body to the lower edge of the tube.

The projecting end 5 is also of U-section to lend strength to the handle thus formed thereby, and the projecting wing is rolled inwardly over the opposite edge of the U-shaped handle to bear thereagainst and also close the space between the sides of said handle. This rolled edge not only effects a neat finish for the handle but reinforces the same since when pressure is applied to the handle to rotate the clip the rolled bead will exert pressure down onto the opposing edge of the U-handle and prevent the same from yielding.

In practice, the handle 5 is grasped and twisted to turn the clip over the tube thereby collapsing the tube and expressing the contents thereof out through the opposite end. The projecting handle affords ample surface for being readily gripped, all sharp edges being obviated by means of the rolled edge 3. The construction is cheap and therefore economical to produce, and being applied in the manner that binding clips have heretofore been applied no additional operation is requisite except as to the rolling of the bead 3.

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

A collapsible tube having a binding clip of U-section embracing its bottom edge to close the same, said clip extended beyond the tube to form a handle, one side of the U-sectioned handle having an upward extension rolled over the opposite side thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. HUNTOON.

Witnesses:

ADA E. HAGERTY,
J. A. MILLER.