Sept. 23, 1930. W. P. HOLZMARK 1,776,387

COLLAPSIBLE TUBE

Filed Aug. 22, 1929

Fig. 1.

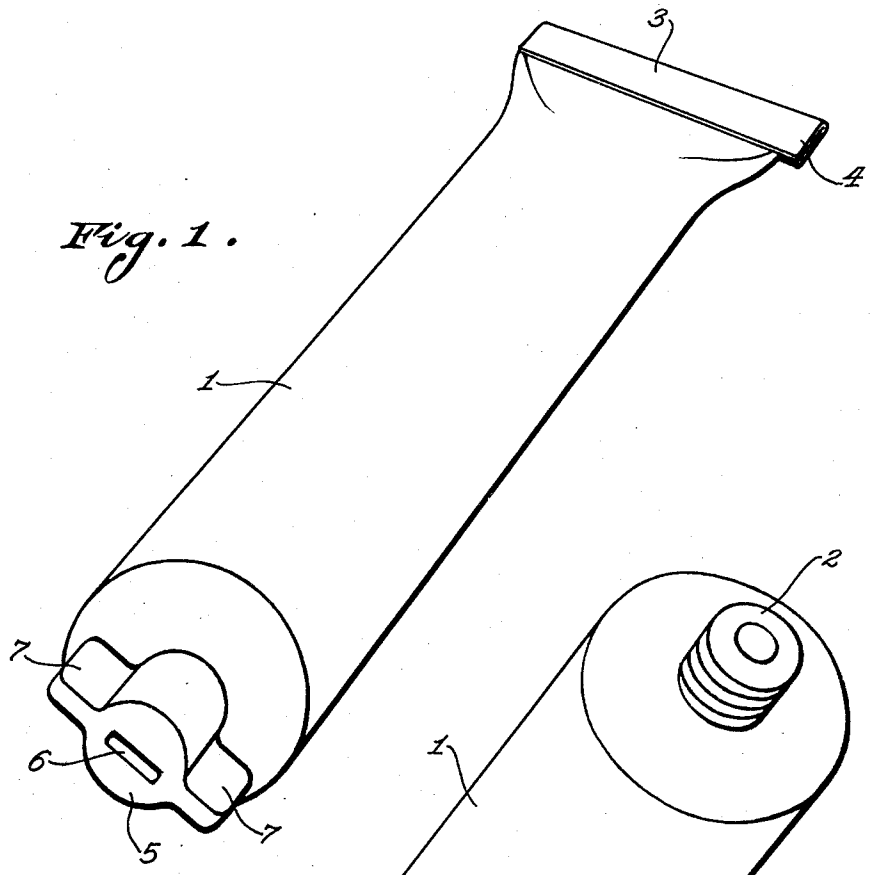
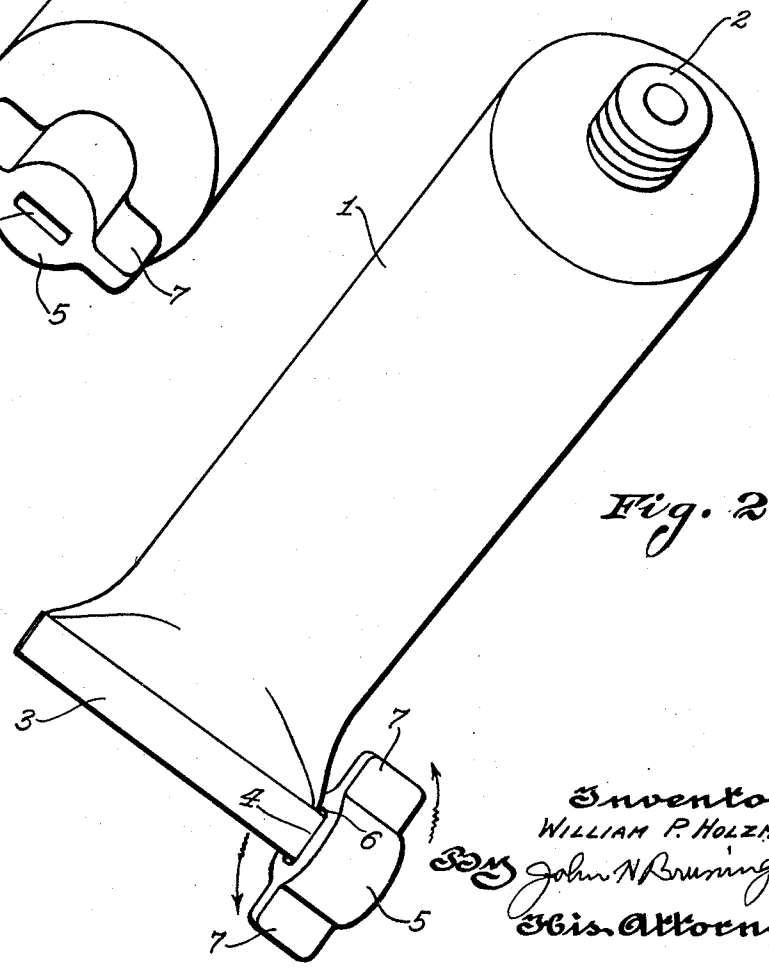


Fig. 2.



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UNITED STATES PATENT OFFICE

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COLLAPSIBLE TUBE

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This invention pertains to collapsible containers such as the collapsible tubes used for holding paste, such as tooth paste, paints, and the like.

One of the objects of this invention is to provide simple means whereby the tube may be collapsed in an orderly and progressive manner.

Another object is to provide such a tube with collapsing means which are easy to manipulate.

Another object is to provide manipulating means which when not in use may be regularly attached to the tube so as to remain therewith.

Further objects will appear from the following description taken in connection with the accompanying drawing; in which

Figure 1 is a perspective view of a collapsible tube embodying this invention; and

Figure 2 is a similar view showing the manipulative means in position for use.

Referring now to the drawing, 1 designates a collapsible tube of any ordinary type. This may be provided with an ejecting nozzle 2 in the usual manner. The bottom end of the tube is flattened and has secured thereto a strip 3. The strip 3 may be a simple strip of metal bent double and crimped over the bottom end of the tube 1. The strip 3 is longer than the width of the tube so as to provide a coupling part 4 projecting beyond the tube. This portion 4 provides means for manipulating the strip 3 to collapse the tube.

In accordance with this invention, a closure cap 5 is provided which may be screwed on to the nozzle 2 in the usual manner to close the tube. The cap 5 is provided with a slot or socket 6 adapted to receive the projecting portion 4 of the strip 3. The cap 5 may be provided with finger wings 7 to aid the manipulating of the same. The cap 5 therefore provides a manipulative device adapted to couple with the coupling part 4 to collapse the tube while the device is also adapted to be received by the coupling part 2 on the other end of the tube.

In the use of this device when it is desired to eject the material from the tube the cap 5 is removed from the nozzle 2 and placed in engagement with the projection 4 as illustrated in Figure 2. With the cap in this position, it is turned so as to twist the strip 3 in such a way as to wrap up the tube 1 on this strip. This operation produces a pressure tending to collapse the tube, which pressure forces the material out at the nozzle 2.

It will be noted that in accordance with this invention the tube may be collapsed progressively from its bottom end by simply wrapping the tube on the strip 3. This keeps the remaining part of the tube always in distended form and avoids repeated flexure of the upper portion of the tube tending to break same. By these means the tube can be wrapped up clear to its upper end and all of the material contained therein is made available.

It is obvious that various changes may be made within the scope of the appended claims, in the details of construction without departing from the spirit of this invention. It is, therefore, to be understood that this invention is not limited to the specific details shown and described.

Having thus described the invention, what is claimed is:

1. A collapsible tube having a strip secured across the bottom end thereof and projecting therebeyond at one end, and a closure cap for the tube provided with means for attachment to said strip in order to provide a handle for operating the same.

2. A collapsible tube having a strip secured across the bottom end thereof and projecting therebeyond at one end, and a closure cap for the tube having a socket adapted to receive the projecting end of said strip in order to provide a handle for operating the same.

3. A collapsible tube having a cap and means on the tube adapted to receive the cap for manipulation to collapse the tube.

4. A collapsible tube having a cap and means on said tube for collapsing the same, said cap being adapted to engage said means for operation thereof.

In testimony whereof I affix my signature this 19th day August, 1929.

WILLIAM P. HOLZMARK.