Oct. 15, 1929. R. L. BOURKE 1,731,703

TOOTH PASTE DISPENSING DEVICE

Filed June 6, 1928

Fig. 1.

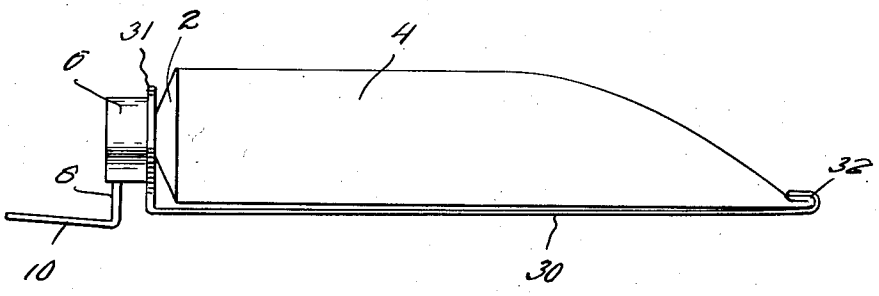


Fig. 2.

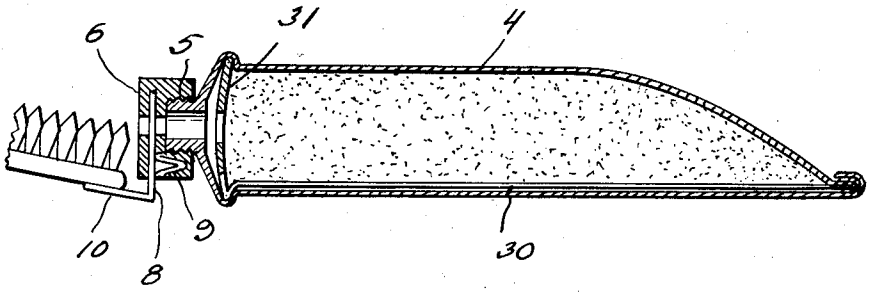
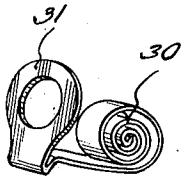


Fig. 3.



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UNITED STATES PATENT OFFICE

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TOOTH-PASTE-DISPENSING DEVICE

Application filed June 6, 1928. Serial No. 283,342.

The present invention relates to improvements in paste tube holders and has reference more particularly to a device for dispensing tooth paste from a collapsible paste tube onto the bristles of a brush.

One of the important objects of the invention is to provide a dispensing device of this character which may be positioned either inwardly or outwardly of the paste tube for discharging the contents thereof.

A further object is to provide a tooth paste dispensing device of the above mentioned character which will eliminate unnecessary waste and furthermore save considerable time and labor.

Still a further object is to provide a dispensing device of the above mentioned character which is simple in construction, inexpensive, strong and durable, and further well adapted for the purposes for which the same is intended.

Other objects and advantages of the invention will become apparent during the course of the following detailed description.

In the drawings:

Figure 1 is a side elevational view of a tooth paste tube showing the dispensing attachment positioned outwardly thereof.

Figure 2 is a longitudinal sectional view through the tube showing the dispensing attachment when placed within the tube, and

Figure 3 is a detail perspective view of the spring strip comprising the dispensing attachment and illustrating the same in its normal coiled position.

In the drawings, with reference more particularly to Figures 1 and 2, the numeral 4 designates a cylindrical metallic casing that is formed at its forward end with a conical portion 2, the apex portion of which is opened as shown more clearly in Figure 2.

About the opening in the end of the tube is formed a threaded neck 5.

A relatively elongated flat strip of spring metal is wound in a flat coil as shown at 30 in Figure 3, and is provided at one end with an angularly disposed looped detent 31. This looped member 31 is disposed over the threaded neck 5 of the paste tube 4 as shown in Figure 1 and the coil spring is unwound and is disposed rearwardly along the bottom of the tube 4, and the rear end of the spring strip is bent back in clamping engagement over the closed end of the tube as shown at 32.

Obviously the inherent resiliency of the coil spring 30 will consist in collapsing the tube to extrude the paste through the discharge opening in the neck.

In Figure 2, the paste tube collapsing member is shown built into the tooth paste tube, the action of the member being the same as that which takes place with respect to the construction illustrated in Figure 1.

Any suitable valved cap, such as that designated at 6 in Figure 1 of the drawings, may be carried on the threaded neck of the tube to normally prevent escape of the paste when the tub is not in use.

The cap may be provided with a sliding valve 8, the same being normally retained in closed position by a spring 9 and having a finger grip 10 at its outer end for moving the valve into open position.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the appended claims.

Having thus described my invention, what I claim as new is:

1. The combination with a collapsible paste tube provided with a normally closed discharge neck, of means for creating an extruding action when the discharge neck is open, said means comprising a normally coiled flat spring strip secured at its forward end to the neck portion of the tube, the other end of the strip being connected with the closed rear end of the paste tube.

2. The combination with a collapsible paste tube provided with a normally closed discharge neck, of means for creating an extruding action when the discharge neck is open, comprising a normally coiled flat spring strip having an apertured member at one end retained in position at the neck por-

tion of the tube, and a clamping member formed at the opposite end of the spring strip and engageable with the closed rear end of the tube, said strip being adapted to roll said rear end of the tube forwardly to facilitate the discharge of paste therefrom.

In testimony whereof I affix my signature.

RUSSELL L. BOURKE.