Jan. 15, 1924.

1,481,236

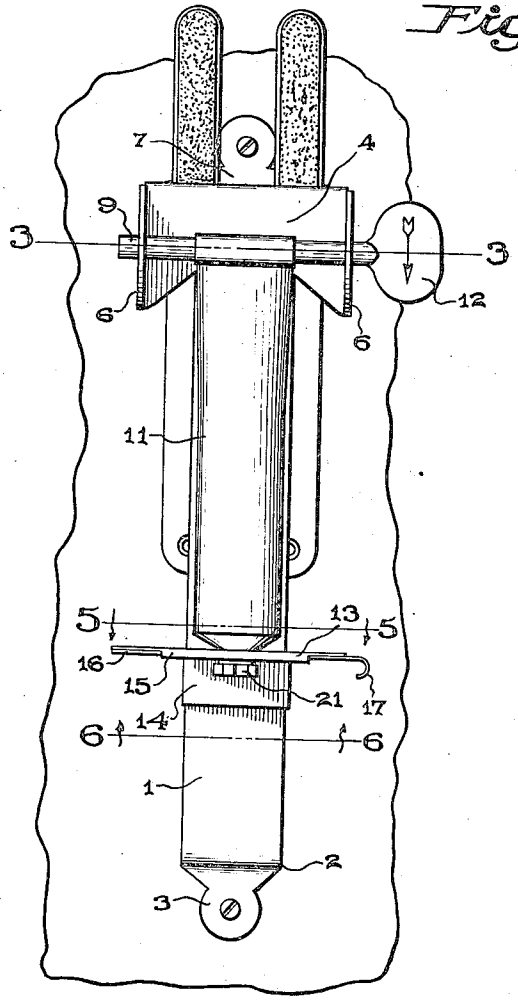
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2 Sheets-Sheet 1

Fig. 1.



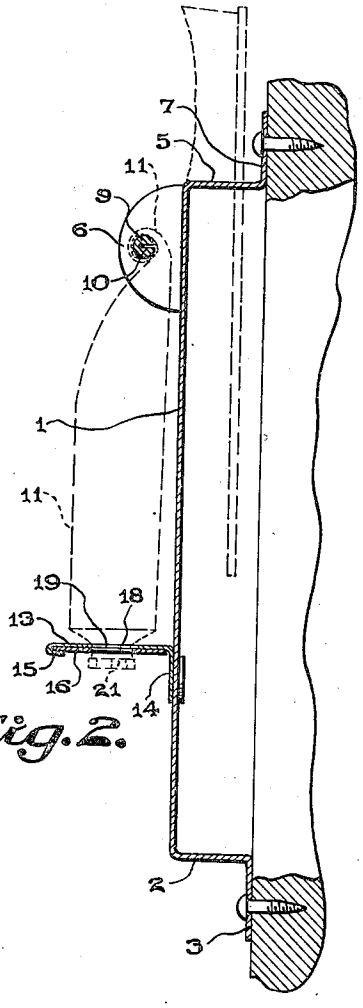
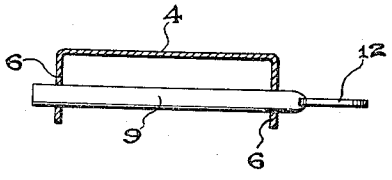


Fig. 2.

Fig. 3.



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Fig. 4.

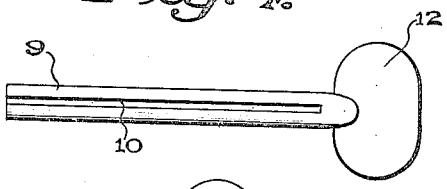
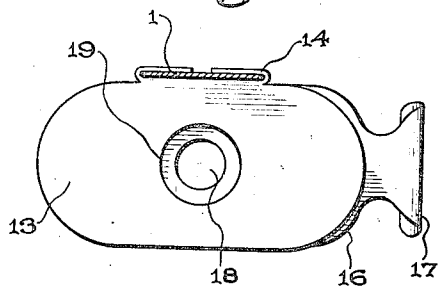


Fig. 5.



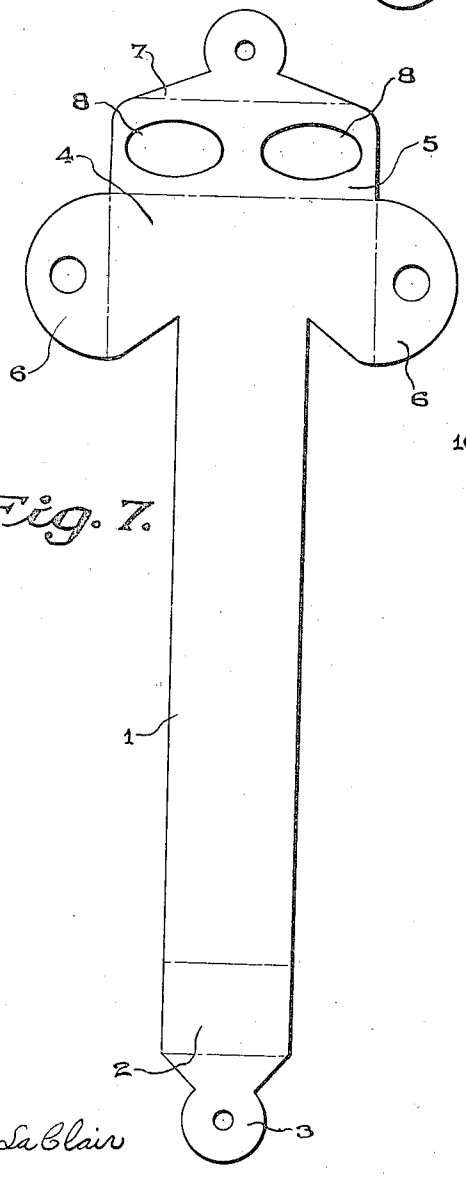


Fig. 6.

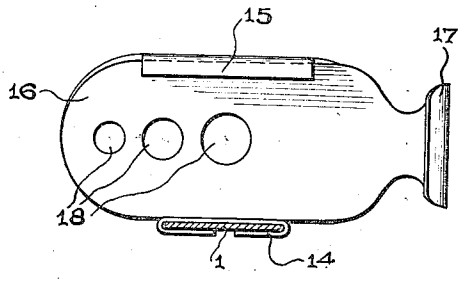


Fig. 7.

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UNITED STATES PATENT OFFICE.

CHARLES R. SPINE AND SAMUEL McMAHON, OF SOMERVILLE, NEW JERSEY.

HOLDER.

Application filed December 8, 1922. Serial No. 605,676.

To all whom it may concern:

Be it known that we, CHARLES R. SPINE and SAMUEL MCMAHON, citizens of the United States, residing at Somerville, in the county of Somerset and State of New Jersey, have invented new and useful Improvements in Holders, of which the following is a specification.

An object of this invention is to produce a holding device for compressible tubes which contain paste for shaving, tooth cleaning, etc., and wherein means is provided for rolling the tube from the closed end thereof to force a desired quantity of paste from the open end thereof, after the cap closing said end is removed.

It is a further object to produce an article of this character whose body is constructed from a single sheet of suitable metal or other material, the same having spaced ears to receive a slotted shaft, the closed end of a compressible paste containing tube being received in the slot of the shaft, the other end of the said tube being received in a member which is slidable upon the body so that when the tube is compressed, compensation will be made for the reduced length thereof.

A still further object is to produce a holder or support for compressible tubes which is particularly adaptable for supporting tubes containing tooth paste, in which a slotted shaft is provided to receive in the slot thereof the closed end of the tube, the open end of the said tube having its screw neck passing through an opening in a slidable follower member and threadedly engaging one of a plurality of different sized openings in a plate carried by the follower member, whereby the threaded neck of the tube is secured on the follower, the construction being such as to provide a support for a number of tooth brushes.

To the attainment of the foregoing and other objects which will present themselves as the nature of the invention is better understood, reference is to be had to the drawings which accompany and which form part of this application.

In the drawings:—

Figure 1 is a front elevation of the improvement.

Figure 2 is an approximately central vertical longitudinal sectional view therethrough.

Figure 3 is a sectional view on the line 3—3 of Figure 1.

Figure 4 is a view of the slotted shaft.

Figure 5 is a perspective view of the slide or follower member.

Figure 6 is a similar view of the plate which is removably and adjustably associated with the slide or follower member.

Figure 7 is a view of the blank from which the body of the improvement is formed.

As disclosed by Figure 7 of the drawings, the body of our improvement is preferably formed from a single strip of material, metal preferred. The main portion of the body, indicated by the numeral 1 has its lower end flanged inwardly, as at 2 and from thence outwardly at a right angle with respect to the portion 2. This last mentioned angle end 3 is parallel to the body 1, and preferably has its sides cut inwardly and its end rounded, the last mentioned portion being provided with an opening through which is passed a screw that enters the sustaining means for the improvement. The strip 1 has its opposite or upper end widened, as at 4, the said widened portion having a reduced extension 5 which, however, is wider than the strip 1. In a line with the edges of the extension 5 the outer ends of the portion 4 are bent outwardly and at a right angle with respect to the said portion 4, to provide ears 6, and preferably these ears have their outer edges rounded. The portion 5 is bent rearwardly and right angularly with respect to the portion 4, and is arranged parallel with the angle portion 2 at the bottom of the strip 1. The outer end of the said portion 5 is bent outwardly at a right angle and the edges of this portion 7 are cut inwardly and the center thereof is rounded outwardly and provided with an opening through which passes the second securing element. For distinction, I will refer to the inwardly bent or angle portion 5 of the improvement as a shelf, the same being provided with spaced elongated openings 8 for the passage of handles of tooth brushes.

The ears 6 have aligning openings which are round and which are designed to receive therethrough a shaft 9. The shaft has a longitudinal groove 10 to receive therein the flattened, widened and closed end of a tube 11 which contains paste, the same, in the

present instance being in the nature of tooth paste, but it is, of course, to be understood that any character of paste may be employed when the device is not used as a holder for tooth brushes, such for instance as a shaving paste. The key 9 has one of its ends widened and flattened to provide a handle portion 12.

Slidable upon the strip 1 there is a plate 13 which, for the sake of convenience I will refer to as a follower plate, inasmuch as the same is designed to move on the strip 1 when the length of the tube 11 lessens in the compression thereof by its winding on the shaft 9. The plate 13 has one of its edges formed with a downwardly extending or right angular portion 14, and the edges of this portion 14 are bent over the edges of the strip 1 and are further bent against the inner face of the said strip. By this arrangement it will be noted that the follower plate 13 is supported at an outward right angle on the strip 1.

The follower plate 13 has its outer edge formed with an inwardly directed flange 15 designed to serve as a support for a slidable plate 16. The plate 16 has one of its ends formed with a handle portion 17 and has its body provided with any desired number of spaced rounded and threaded openings 18.

The follower plate 13 has a centrally enlarged rounded opening 19 through which the threaded neck portion 20 of the tube 11 passes. The tube, before being engaged by the shaft has its neck screwed in one of the openings in the slidable plate 16 when the proper opening is brought to register with the opening 19 in the follower plate 13. This causes the locking of the tube to the slidable plates 16 and to the follower plate 13. The follower is then moved so that the closed end of the compressible tube 11 will be received in the slot 10 of the shaft 9. In use, the cap 21 is removed from the threaded neck or mouth of the tube 11, and the shaft 9 is turned in its bearings to wrap or wind the closed end of the tube 11 therearound. This forces a quantity of the paste through the mouth or neck portion of the tube. This paste may be readily delivered on to the britsles of a tooth brush, or on to the bristles of a shaving brush, when shaving paste is employed. With our improvement, the entire contents of the tube 11 are used, and the annoying and unsatisfactory method of compressing the tube by hand is effectively overcome. The improvement is ornamental in appearance, may be cheaply manufactured and marketed and will successfully perform the functions for which it is devised, but it is to be understood that I do not wish to be restricted to the precise details of construction herein set forth, but hold myself entitled to such changes therefrom as fall within the scope of the claims without departing from the spirit of the invention.

Having described the invention, we claim:—

1. The combination with a compressible paste containing tube, of a holder therefor, comprising a metal strip having angle ends attached to a support, a follower plate on the holder to receive the threaded neck portion of the compressible tube therethrough, means locking said tube to said plate, a shaft journaled transversely of the support having a slot therein to receive the closed end of the tube, and an operating handle for the shaft.

2. The combination with a paste containing tube, of a holder therefor, including a strip having an angle lower end secured to a support, its upper end widened and also arranged at an angle and likewise secured to the support, the inturned portion of the last mentioned end providing a shelf which is slotted, outstanding ears on the ends of the widened portion in a line with the edges of the shelf, a follower plate slidable on the body of the holder to receive the threaded mouth of the tube therethrough, means for locking the tube to the follower member, a slotted shaft journaled in bearings in the ears, and receiving in the slot therethrough the closed end of the tube, and an operating handle for the shaft.

3. The combination with a paste containing tube, of a holder therefor, including a strip having an angle lower end secured to a support, its upper end widened and also arranged at an angle and likewise secured to the support, the inturned portion of the last mentioned end providing a shelf which is slotted, outstanding ears on the ends of the widened portion in a line with the edges of the shelf, a follower member slidable on the body having an enlarged opening therethrough to receive the threaded neck of the tube therethrough, a plate slidably associated with the follower member and having spaced threaded openings of varying sizes, one of which designed to be arranged beneath the opening in the follower member and to have screwed therethrough the neck of the tube, a slotted shaft journaled in the ears of the body and receiving the closed end of the tube therein, and an operating handle for the shaft.

In testimony whereof we affix our signatures.

CHARLES R. SPINE.
SAMUEL McMAHON.