Sept. 15, 1931. C. A. MAHER 1,823,206

CONTAINER FOR PASTE TUBES

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Fig. 1.

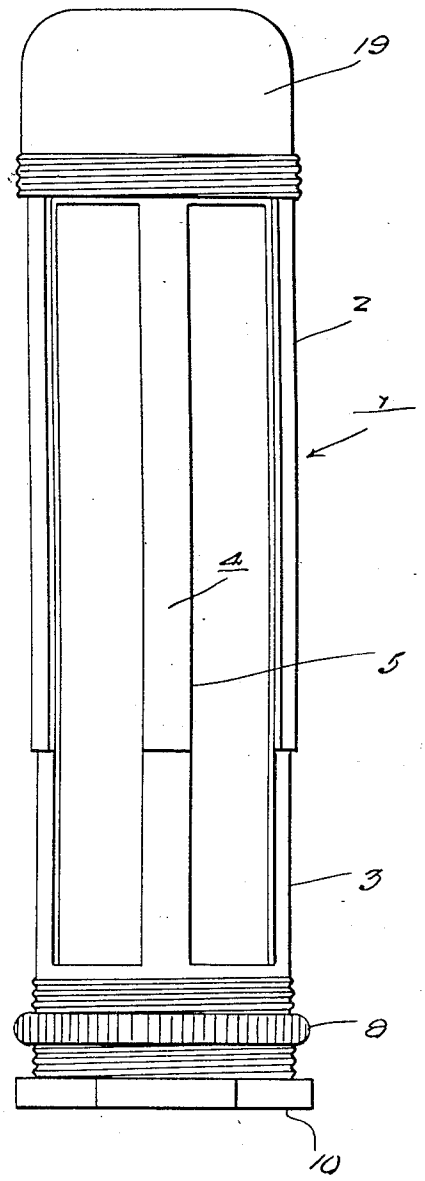

Fig. 2.

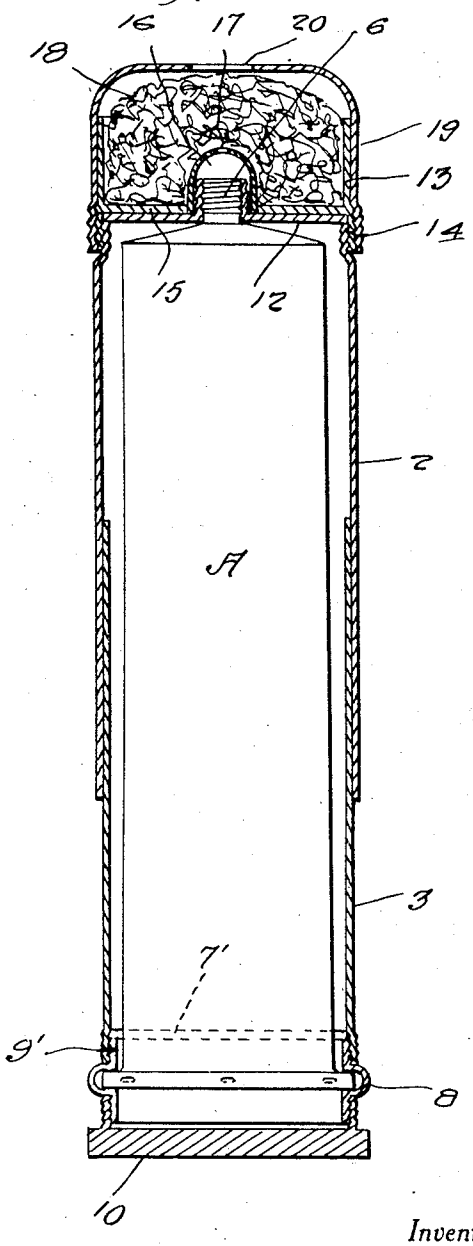

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Fig. 3.

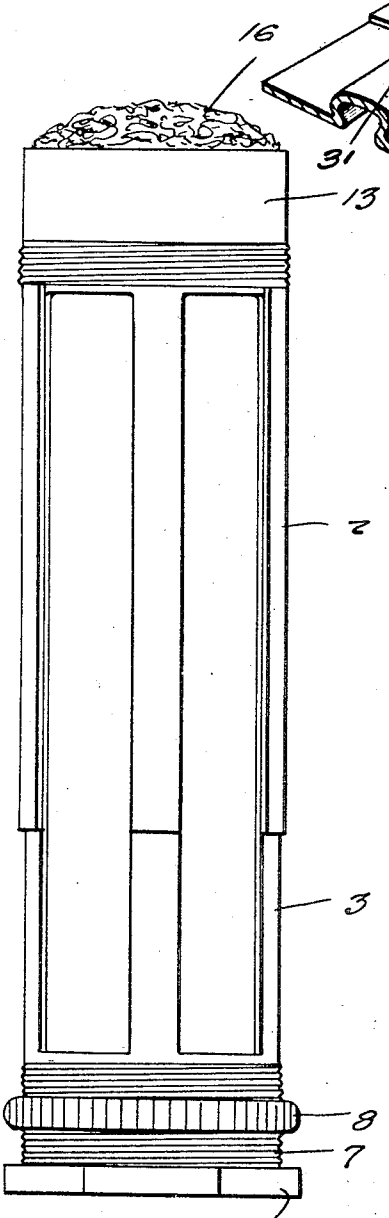


Fig. 9.

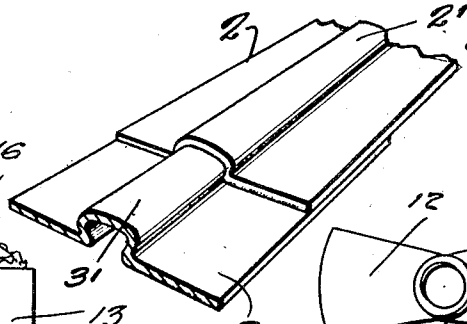


Fig. 4.

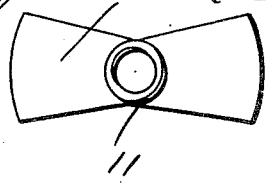


Fig. 5.

Fig. 6.

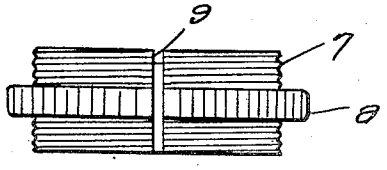


Fig. 7.

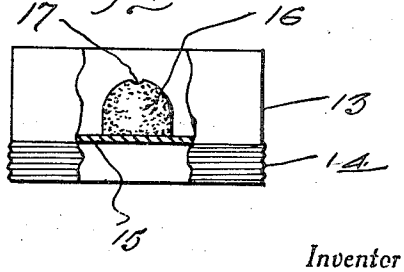
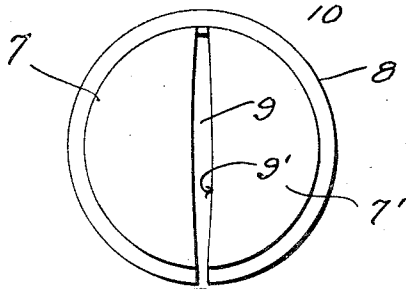


Fig. 8.



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Patented Sept. 15, 1931

1,823,206

UNITED STATES PATENT OFFICE

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CONTAINER FOR PASTE TUBES

Application filed March 14, 1929. Serial No. 346,983.

The present invention relates to improvements in special receptacles and has reference more particularly to a holder for receiving a tube of shaving cream, or the like.

The general object of the invention is to provide a telescopic cylinder for receiving the tube of paste and having openings therein whereby the tube can be pressed by the fingers passing through said openings with detachable means at each end of the cylinder for holding the tube of paste therein, the means at the upper end of the cylinder including a nipple for fitting over the neck of the tube.

Other objects of the invention will become apparent as the nature of the invention proceeds and when taken in conection with the accompanying drawings.

In the accompanying drawings, forming a part of this application and wherein like reference characters designate like parts throughout the several views:

Figure 1 is a side elevation of the holder embodying my invention.

Figure 2 is a vertical sectional view therethrough showing the position of a tube of shaving cream within the container or housing.

Figure 3 is a side elevation of the device with the cap removed.

Figure 4 is a top plan view of the member into which is threaded the discharge neck of the paste tube.

Figure 5 is a side elevation thereof.

Figure 6 is an elevational view of the threaded ring for receiving the closed lower end of the tube.

Figure 7 is a side elevation with parts broken away of a cup shaped holder.

Figure 8 is a top plan view of the threaded ring.

Fig. 9 is a fragmentary view of the telescopic sections.

In the drawings, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally the housing or container, the same comprising the telescopic sections 2 and 3 respectively, having the channel portions 2′ and the bead portion 3′ for interfitting engagement, whereby said container is capable of being lengthened or shortened depending upon the size of the tube of shaving cream that is to be received within the housing or container.

Upon referring to Figures 1 and 3, it will be observed that each section includes a plurality of spaced strips 4 and the strips of the outer or upper sections frictionally engage with the adjacent strips of the lower or inner sections. The construction of a housing of this character provides spaced elongated openings 5, through which the fingers of the user may pass for collapsing the tube of shaving cream A, positioned within the container for the purpose of extruding a quantity of shaving cream outwardly through the threaded discharge neck 6 of the tube into the applicator, the construction of which will be hereinafter more fully described.

The lower end of the lower section 3 of the housing 1 is opened and is internally as well as externally threaded. An externally threaded ring, such as is shown at 7, in Figure 6, is formed at its intermediate portion with the circumferentially extending channel 8, that is pressed outwardly and the outer peripheral edge of this channel is knurled to facilitate manual rotation thereof. The ring 7 is closed at one end with a top 7′ within which is formed, a slotted opening 9 having its opposite edges elliptical as shown at 9′ in Figure 8.

The slotted opening extends downwardly entirely through one side of the ring for initially facilitating the insertion of the closed lower end of the collapsible tube A in the ring. After the closed end of the tube is inserted in the slotted part of the ring 7, the ring may be slightly turned so as to partly twist the lower end of the tube to cause the extremities of the folded over end of the tube to enter the channel 8 so that said folded over part of the tube will not be in alinement with the slot, and thus the ring will be partly locked to the tube. After the ring is threaded in the lower end of the cylinder with the tube located in the cylinder the cap 10 is threaded on the ring to provide a closure for

the lower end of the cylinder housing as shown in Figures 1, 2 and 3.

A threaded collar 11 is threaded on the discharge neck 6 of the collapsible tube A and a pair of laterally extending wings or flanges 12 project in opposite directions from the lower end portion of the collar and the outer end of each wing is curved to conform to the contour of the open upper end of the upper section 2 of the housing or container 1 and in Figures 4 and 5 of the drawings, there is shown in detail, the construction of this collar 11 and the laterally extending wings or flanges 12 associated therewith.

A cup shaped unit 13 is formed at its lower edge with a depending annular threaded flange 14 for disposition over the threaded upper end portion of the upper section 2 and the bottom of this cup shaped member 13 is adapted to engage with the upper faces of the laterally extending wings or flanges 12, for further maintaining this collar unit in position.

The bottom 15 of this cup shaped unit is formed with a central opening to accommodate the threaded discharge neck 6 and the collar 11 and extending upwardly from the bottom 15 around the opening formed therein is the rubber teat 16 that is formed in its top with the relatively small discharge opening 17.

The applicator includes the provision of a body of sponge rubber 18, that is secured within the cup shaped member 13 around the rubber teat 16, and the upper portion of the sponge rubber body projects above the open top of the cup shaped holder 13.

A cap 19 is detachably secured to the cup holder 13 for protecting the sponge rubber applicator body 18, and the lower portion of this cap 19 is threaded for engagement with the depending threaded flange 14. The top of the cap 19 is formed with an air opening 20, as more clearly disclosed in Figure 2. Upon the removal of the cap 19, a quantity of shaving cream is extruded from the collapsible tube A through the opening 17 in the rubber teat 16 by pressing upon the tube, for discharge into the sponge rubber body 18, and by moistening the sponge rubber body and applying the projecting portion of the sponge rubber body to the face and working the device back and forth, a lather will be formed and this without the necessity of having to employ a shaving brush.

As the tube A becomes empty, the lower section 3 may be moved upwardly within the upper section and when the entire contents of the tube have been discharged therefrom, the parts can be readily and easily disassembled and the old empty tube withdrawn and a fresh full tube replaced in the container.

Furthermore, the parts of the device are so constructed as to permit the same to be cleaned after each usage.

A device of this character may be constructed and sold at a very low cost and will combine certain shaving accessories in a compact unit so that the same will be at hand for use whenever necessary and furthermore the device will not occupy much space.

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.

What I claim as new is:

1. A paste tube holder comprising a telescopic cylinder having both ends open and openings in its side walls, a detachable closure for the lower end of the cylinder having a slot therein for receiving the closed end of a tube of paste, a bridge piece having a tubular central portion for engaging the neck of the tube and opposing wings connected with the tubular part, a cup-shaped member detachably connected with the upper end of the cylinder and having an opening at its center for receiving the neck of the tube with a part of said member pressing the wings of the bridge piece against a part of the cylinder.

2. A paste tube holder comprising a telescopic cylinder having both ends open and openings in its side walls, a detachable closure for the lower end of the cylinder having a slot therein for receiving the closed end of a tube of paste, a bridge piece having a tubular central portion for engaging the neck of the tube and opposing wings connected with the tubular part, a cup-shaped member detachably connected with the upper end of the cylinder and having an opening in its center for receiving the neck of the tube with a part of said member pressing the wings of the bridge piece against a part of the cylinder, and a nipple in the cup-shaped member having a perforation in its outer end, the nipple fitting over the tubular part of the bridging piece, and a detachable cap enclosing the cup-shaped member.

In testimony whereof I affix my signature.

CHARLES A. MAHER.