L. L. MINER.

COVER FOR PASTE TUBES.

APPLICATION FILED FEB. 13, 1919.

1,311,004. Patented July 22, 1919.

FIG. 1

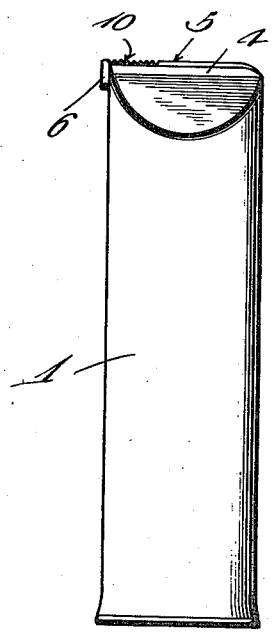


FIG. 2

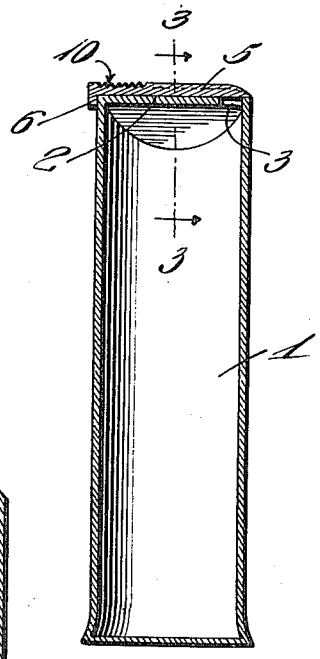


FIG. 3

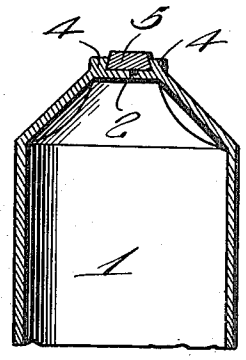


FIG. 6

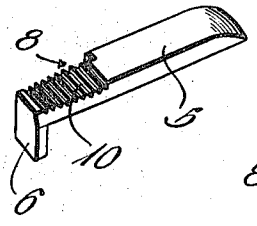


FIG. 4

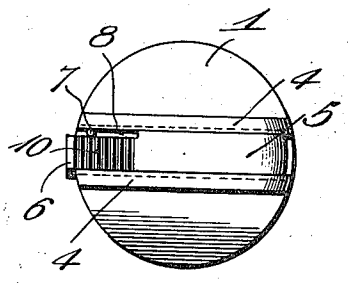
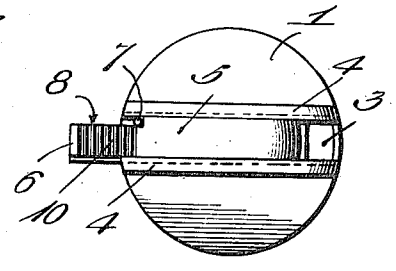


FIG. 5



Witness

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COVER FOR PASTE-TUBES.

1,311,004. Specification of Letters Patent. Patented July 22, 1919.

Application filed February 13, 1919. Serial No. 276,784.

To all whom it may concern:

Be it known that I, LUCIEN L. MINER, a citizen of Tyrone, residing at Tyrone, in the county of Grant and State of New Mexico, have invented certain new and useful Improvements in Covers for Paste-Tubes, and do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in sliding covers for receptacles containing paste-like substances which are forced from the tubes in any suitable manner.

One object of the invention is to provide a cover having a sliding engagement with the tube of the receptacle and having a beveled end adapted to co-act with the outer edge of the discharge opening to cleanly cut off the material when a sufficient quantity of the same has been forced from the tube and the cover closed.

Another object is to provide a cover of this character having means whereby the same may be conveniently manipulated by the thumb or finger of the hand holding the receptacle.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings:

Figure 1 is a side view of a tube having a cover constructed in accordance with my invention;

Fig. 2 is a central vertical sectional view of the same showing the cover in open position;

Fig. 3 is a similar view taken at right angles to Fig. 2;

Fig. 4 is a top plan view with the cover in closed position;

Fig. 5 is a similar view with the cover in open position; and,

Fig. 6 is a detail perspective view of the cover removed from the tube.

My improved cover is intended to be applied to any suitable form of receptacle adapted to contain a semi-fluid or paste-like material which is forced through a discharge opening in the tube by appropriate means. In the present instance the cover is shown as being applied to a collapsible tube 1 the upper end of which preferably tapers on two opposite sides toward a flat cover receiving seat 2 extending across the ridge or apex of said upper end, and at one end of which seat is formed a discharge opening 3 which is preferably of rectangular shape as shown. On the opposite side edges of the recess 2 are formed cover retaining and guiding ribs or flanges 4, the inner edges of which are undercut to form between the flanges a dove tail shaped passage.

Slidably mounted on the seat 2 and in the passage formed by the flanges 4 is a flat cover plate 5 the side edges of which are beveled or formed at an angle to fit and slidably engage the undercut edges of the flanges 4 whereby the cover plate is held in sliding engagement with its seat. By the location of the guide flanges 4 the delivery end of the collapsible tube 1 is also strengthened and, therefore, the formation of said discharge end is retained by the addition and employment of the cover 5.

It will also be noted that by the employment of the guide flanges 4 the elongated discharge opening in the tube is properly proportioned in order to cause the tooth or other brush to be properly applied when it is desired to use the powder or other material contained within the tube upon the brush. The inner end of the cover plate adjacent to the discharge opening in the seat 2 is beveled or rounded off to form a sharp lower cutting edge adapted to co-act with the edges of the discharge opening in the seat to cleanly cut off the protruding part of the material forced from the tube. By thus cutting off the material the mouth or discharge end of the receptacle will be kept clean and no material will be wasted.

On the outer end of the cover is formed a depending thumb piece or lip 6 which is adapted to engage the end of the seat or side of the top when the cover is pushed to a closed position thereby limiting the closing movement of the cover.

On the seat 2 adjacent to one side thereof and at the opposite end from the discharge opening 3 is a pin 7 which projects upwardly through a notch 8 formed by cutting away the adjacent edge of the cover whereby the opening movement of the cover is limited and the latter thus prevented from being drawn entirely out of engagement with the seat. The upper surface of the cover adjacent to the outer end thereof op-

posite to the discharge opening in the tube is preferably roughened or serrated as at 10 to afford a firm grip or purchase for the thumb or finger when opening or closing the cover.

As hereinbefore stated my improved cover may be employed in connection with any form of receptacle of a suitable nature, but the same is particularly adapted for use in connection with collapsible tubes containing paint, oils or other semi-fluid or pasty materials such as tooth cleaning pastes, adhesive pastes, ointments and the like. When the desired quantity of such material has been forced from the discharge opening in the tube the protruding portion of the material may be cleanly and sharply cut from the position of the material in the tube so that none of the material will remain or accumulate on the outer surface of the discharge end of the tube to collect dust or foreign matter or attract flies, thus providing a cover for receptacles of the character described which will keep the same in a clean and sanitary condition.

By construction and arranging the cover as herein shown and described it will be seen that the same may be readily operated by the thumb or finger of the hand in which the tube is held, thus leaving the other hand free to be used in any other capacity.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the prinicple or sacrificing any of the advantages of the invention as claimed.

Having thus particularly described and ascertained the nature of my invention and in what manner the same is to be performed, I declare that what I claim is:—

A collapsible receptacle having its sides converging toward its discharge end, a flat transverse seat connecting the upper edges of said sides and having a discharge orifice at one end and parallel undercut strengthening flanges along its sides, a pin rising from the seat near its opposite end and adjacent one flange, a cover plate slidably mounted upon the seat and having beveled edges engaging said flanges and one edge cut away from the outer end of the plate inward and terminating in an abrupt shoulder so that the cutaway portion moves past said pin and the shoulder engages it when the plate is retracted, the inner end of the plate being formed with a sharp edge to pass across said orifice and the outer end with a downturned lip adapted to engage against the end of the seat when the inner end of the plate has closed the orifice, and serrations on the upper face of the plate near its outer end rising above said flanges, all as and for the purpose set forth.

In testimony whereof I have hereunto set my hand.

LUCIEN LUTTRELL MINER.