Feb. 20, 1934. C. HASSE ET AL 1,948,070

SELF SEALING PASTE TUBE

Filed Oct. 5, 1932

Fig. 1.

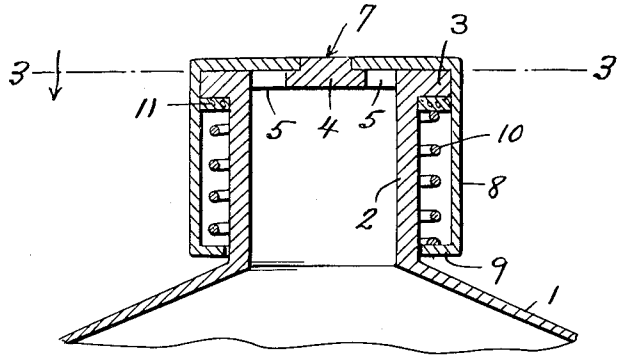


Fig. 2.

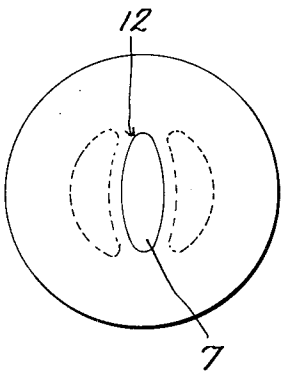


Fig. 3

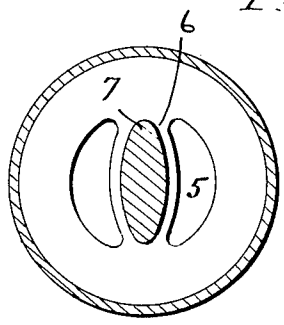
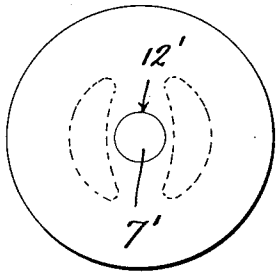


Fig. 4



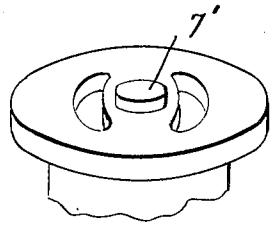


Fig. 5.

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SELF-SEALING PASTE TUBE

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Toms River, N. J.

Application October 5, 1932. Serial No. 636,407

1 Claim. (Cl. 221—60)

This invention relates to a self-sealing paste tube, the general object of the invention being to provide means whereby some of the contents of the tube can be ejected therefrom by pressure upon the tube, the tube closing when the pressure is removed.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a sectional view through the upper part of the tube forming the subject matter of this invention.

Fig. 2 is a top plan view thereof.

Fig. 3 is a section on line 3—3 of Fig. 1.

Fig. 4 is a top plan view showing a modification.

Fig. 5 is a view of the neck part of the tube, with its top removed for the modified form of the invention.

In the drawing, the numeral 1 represents the tube, and its neck is denoted by the numeral 2. The neck at its upper end is formed with an exterior flange 3 and the upper end of said neck is closed by a closure 4 which contains the openings 5 which are preferably of the shape shown so as to leave a central portion 6 which contains a boss 7. A cap 8 fits over the neck and has a flange 9 extending inwardly from its lower end and a coiled spring 10 encircles the neck and is located in the cap and has its lower end bearing against the flange 9 and its upper end against a gasket 11 which engages the under face of the flange 3 of the neck. Thus this spring normally holds the cap in closed position and said cap has an opening 12 therein for receiving the boss 7 when the cap is in closed position.

By pressing upon the tube and placing the contents thereof under pressure, this pressure will force some of the contents through the openings 5 against the top of the cap so that the cap will be lifted against the action of the spring and some of the contents will then pass through the opening 12 in the cap. As soon as the pressure is removed, the spring 10 will force the cap to closed position with the boss 7 fitting in the opening 12 so that none of the contents remain in the opening 12 to become hardened or attract flies, insects, or dirt.

In the modification shown in Figs. 4 and 5, the boss 7′ is of circular shape and the opening 12′ of the cap is also of circular shape to receive the boss. In other respects, this form of the invention is similar to that before described.

The gasket 11 will prevent any of the contents from reaching the space occupied by the spring.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts provided that such changes fall within the scope of the appended claim.

Having thus described our invention, what we claim as new is:—

In combination with a tube of compressible material, a neck having its outer end closed, the closing part having an opening therein located at one side of the center, an outwardly extending flange at the outer end of the neck, the outer face of the closing part and the outer face of said flange being flat and arranged in the same plane, a boss at the central part of said outer face of the closing part, a cap fitting over the neck and its flange and having a flange at its inner end, a spring encircling the neck and confined between the flanges for normally holding the cap in closed position, the closed end of the cap having a flat inner face for contacting the flat outer face of the closing part of the neck and its flange, when the cap is in closing position, said closed end of the cap having a centrally arranged opening therein for receiving the boss when the cap is in closed position.

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