July 29, 1930. T. J. MELVIN 1,771,545

CLOSURE DEVICE

Filed Aug. 4, 1928

Fig. 1.

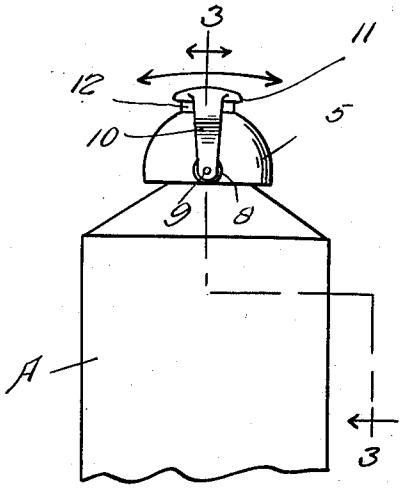


Fig. 3.

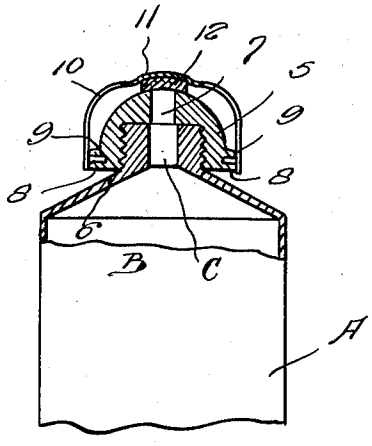


Fig. 2.

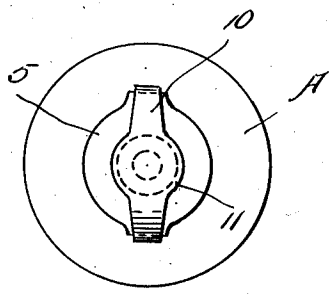
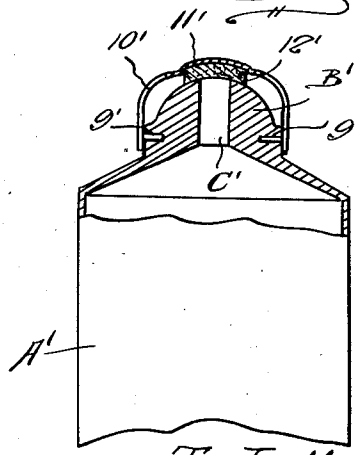


Fig. 4.



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Patented July 29, 1930 1,771,545

UNITED STATES PATENT OFFICE

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CLOSURE DEVICE

Application filed August 4, 1928. Serial No. 297,481.

The object of my said invention is the provision of a closure device that is, at once, simple, easily operated, easily cleaned, and efficient.

To the attainment of the foregoing, the invention consists in the improvement as hereinafter described and definitely claimed.

In the drawing wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a fragmentary side elevation of a conventional paste tube equipped with my improved closure device.

Figure 2 is a sectional view through the closure device at right angles to Figure 1.

Figure 3 is a plan view of the closure device, and

Figure 4 is a section through the discharge end of a tube of modified construction.

First having reference to Figures 1, 2 and 3, A designates generally a conventional collapsible paste tube with an exteriorly threaded neck B having an opening C through which the paste within the tube may be expelled.

One embodiment of my invention, Figures 1, 2 and 3, includes a body 5 which is exteriorly globular and has a threaded socket 6 for receiving the threaded neck B of the tube A, while extending through said body 5 at the center of the socket is a paste discharge opening 7.

Adjacent the lower edge of the body 5 the same is formed at opposite points with teats 8—8 within which are pivotally mounted pins 9—9 carried by the ends of a U-shaped bail 10, the center of said bail being provided with a circular enlargement to provide a cap 11 to the under side of which is attached a cork or rubber pad 12 for tight engagement over the outer end of the opening 7 in the body 5 when the bail is swung into position above the body 5 as disclosed in said Figures 1, 2 and 3. However, when it is desired to project the paste from the tube the bail 10 may be swung over at right angles to the position disclosed, whereupon the cap opening 7 is uncovered.

In the form of the invention disclosed in Figure 4, the tube A′ is formed with a body B′ having a globular exterior and through which is a paste passage c'. The outer side of said body B′ is of rounded formation or globular, as stated, while pivotally arranged at opposite points in the body at the inner end thereof are pins 9′—9′ carried by the legs of a U-shaped bail 10′ that is formed centrally with an enlarged portion to provide a rounded cap 11′ upon the inner face of which is applied a cork or rubber pad 12′ for tight engagement with the end of the passage c' through the body B′ when the bail is swung into position over the end of the body as disclosed.

In each embodiment of my invention the bail is provided with outwardly bowed portions separated by intervening spaces from the globular exterior of the body and adapted to assure the pad being tightly held over the orifice in the body and also adapted to permit of the bail being swung to position the pad on and off the body.

By virtue of the surface of the body outwardly beyond the radially projecting portion being of globular form, the said surface is susceptible of being expeditiously and easily wiped and kept perfectly clean; and it will also be appreciated that because of the globular form of said surface and the outwardly bowed portion of the bail, the collection of substance on the said surface is not likely to interfere in any measure with free swinging of the bail.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

A closure device consisting essentially of a body having a central aperture through the same and also having integral diametrically opposite radially projecting portions in which are radially disposed journal bear-

ings and further having its exterior from said projecting portions to said aperture globular in form, a bail having adjacent its ends inwardly directed journals disposed in said journal bearings and also having an enlarged central portion and outwardly bowed portions at opposite sides of said central portion, separated by intervening spaces from the surface of the body and a compressible pad carried at the inner side of said enlarged portion and movable with the bail to and from a position over the central portion of the body to close the aperture therein.

In testimony whereof I affix my signature.

THOMAS J. MELVIN.