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2,183,456

CLOSURE CAP FOR PASTE TUBES

Filed April 28, 1939

Fig. 1.

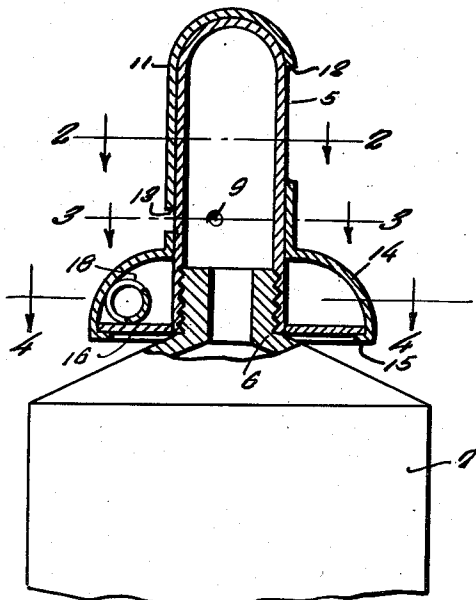


Fig. 2.

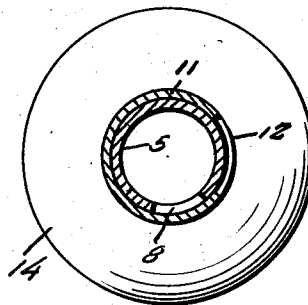


Fig. 3.

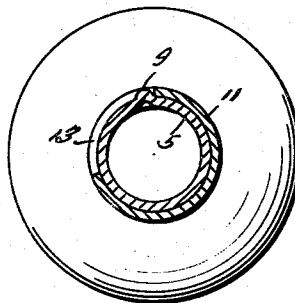
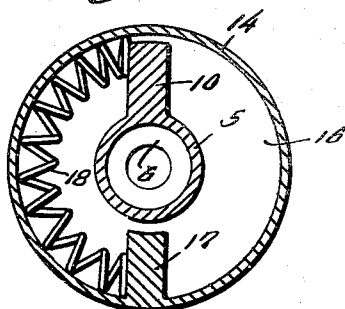


Fig. 4.



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CLOSURE CAP FOR PASTE TUBES

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2 Claims. (Cl. 221-60)

The present invention relates to new and useful improvements in closure caps particularly for paste tubes or the like and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character embodying a novel construction, combination and arrangement of parts through the medium of which the tube is automatically maintained in closed condition when not in use.

Other objects of the invention are to provide a closure cap of the aforementioned character which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight, and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a vertical transverse sectional view of my invention as applied to a paste tube.

Figure 2 is a transverse sectional view taken substantially on the line 2-2 of Fig. 1.

Figure 3 is a transverse sectional view taken substantially on the line 3-3 of Fig. 1, and

Figure 4 is a transverse sectional view taken substantially on the line 4-4 of Fig. 1.

Referring now to the drawing in detail, it will be seen that the reference numeral 5 designates a cap, constructed of metal or other suitable material, having internal threads at its bottom end portion for screwing the same onto the threaded nozzle 6 of the container 7. The top end portion of the cap 5 is dome shaped as shown in Fig. 1 of the drawing. An opening 8 is formed in the wall of the cap 5 through which the contents of the container 7 may be dispensed. A protuberance 9 is formed on the side wall of the cap 5 as shown in Fig. 3 of the drawing. At the bottom end portion and extending from one side of the cap 5 there is formed integral therewith a lateral abutment 10.

Rotatably mounted on the cap 5 is a metallic tubular cap 11 of configuration to snugly house the cap 5, the side walls of which are perforated to provide an opening 12 at one side thereof and an opening 13 opposite the opening 12. The lower end portion of the cap 11 is substantially bell shaped as at 14 and has its bottom edge portion bent inwardly to provide the flange 15 upon

which the annular plate 16 is mounted internally of the bell shaped end portion 14. Integral with and extending inwardly from the bell shaped bottom end portion 14 of the cap 11 there is formed an abutment 17.

A compressible coil spring 18 is housed in the bell shaped portion 14 of the cap 11 with its opposite end portions in contact with the abutments 10 and 17.

When it is desired to extrude the contents of the container it is held in the hand with the thumb and forefinger engaged with the bell shaped portion 14 of the cap 11 whereupon the cap 11 is rotated on the cap 5 until the protuberance 9 abuts one end wall of the opening 13. When in this position the opening 12 is in registration with the opening 8 thereby permitting the discharge of the contents of the container 7. When the cap 11 is released from the fingers the coil spring 18, which has been compressed between the abutments 10 and 17, will automatically rotate the cap 11 to its normal position thereby closing the opening 8 in the cap 5.

Although I have shown and described herein a preferred embodiment of my invention, it is to be definitely understood that I do not desire to limit the application of the invention thereto, and any change or changes may be made in the materials and in the structure and arrangement of the parts, within the spirit of the invention as claimed.

What is claimed is:

1. In a device of the character described, a closure for a container comprising a tubular member having a discharge opening therein, a housing member for said tubular member having an opening therein, said housing member being adapted to rotate on said tubular member to align said openings, and compressible means for normally disaligning said openings.

2. In a device of the character described, a closure for a container comprising a tubular member having a lateral discharge port therein, a rotatable housing for said tubular member having a lateral opening therein adapted to be aligned with said port when said housing is rotated, a projection on said tubular member, a projection on said housing member, and compressible means between said projections to normally rotate said housing to disalign said openings.

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