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2,215,491

PASTE DISPENSER CAP OR APPLICATOR

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Fig. 1.

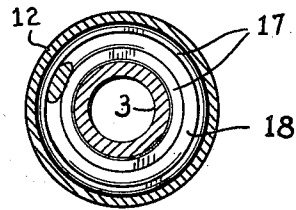


Fig. 3

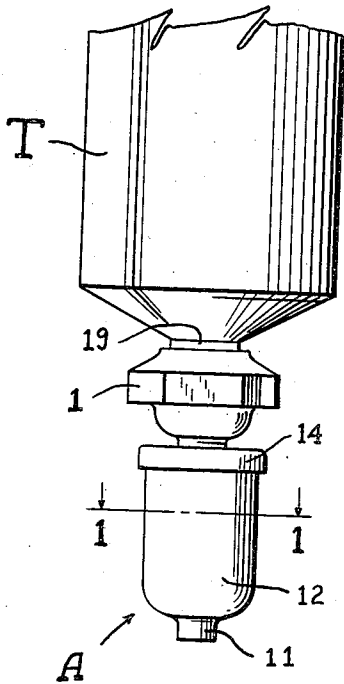
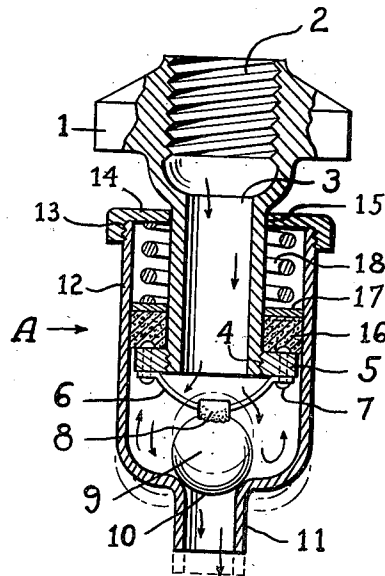


Fig. 2.



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PASTE DISPENSER CAP OR APPLICATOR

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4 Claims. (Cl. 221-60)

The object of my invention is to provide a novel cap or applicator attached to the nozzle of the paste tube to cause a straight flow of the paste without curling, and to stop the flow of paste when operation of the device ceases. It is also an object of my invention to provide the novel combination and arrangement of parts in a device of this type, as shown and described.

I attain these and other objects of my invention by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is a transverse section on line I—I of Fig. 3 and

Fig. 2 is an enlarged vertical section through the applicator A.

Fig. 3 is the cap or applicator as a unit, screw-threaded to discharging end of paste tube.

Like characters of reference designate like parts in each of the several views.

Referring to the accompanying drawing, T designates a tube of paste, A indicates the cap or applicator as a unit.

Referring to Fig. 2, I provide a knurled or hexagonal channelled thumb piece 1 which is screw-threaded at 2 for screw-threaded engagement on the conventional threaded nozzle 19 of a paste tube T, member 1 terminating in a depending tube 3. Depending tube 3 preferably has its lower end threaded at 4 for engagement by a base washer 5 screw-threaded on said threaded lower end. To the washer 5, the depending support 6 is fastened by solder or rivets 7 or by other suitable means. Support 6, in turn carries a check valve 9, which may be spherical or other suitable shape, secured to it by solder 8 or otherwise suitably affixed, and spaced from the lower end of depending tube 3, as shown in Fig. 2. Valve 9 removably seats on the valve seat 10 to open and close the passageway. The nozzle extension 11 provides a longer passageway for the paste (which prevents curling of the paste). The body 12 is detachably affixed to a top 14 which loosely engages tube 3 to permit of vertical sliding movement relative thereto, and the top 14 has a threaded depending flange 13 screw-threaded to the upper end of the body 12, as shown in Fig. 2. Positioned above washer 5 is suitable packing 16, above which is a protecting follower or washer 17 on which a coil spring 18 seats. This coil spring extends from member 17 to the pressure top 14 of the applicator, and presses against both of those members.

To operate the device, the conventional cap is removed from the paste tube and my dispenser cap or applicator A is screw-threaded on the

nozzle of the paste tube in its place, and pressure is exerted on the paste tube, preferably by mechanical means, such as a dispenser. The paste is forced downward to the cap end of the tube and into the cap or applicator A. The pressure of the paste forced into the lower end of the body 12 forces that member downward away from the valve 9 and against the pressure of spring 18 to create a passage between valve 9 and its seat 10. The paste emerges until pressure is released whereupon the coil spring 18 bearing against top 14, which is affixed to the upper end of the body 12, will force body 12 upward until the ball valve 9 again rests on its valve seat 10, thereby stopping the flow of the paste.

What I claim is:

1. In a device of the type described, a paste applicator comprising a channelled screw-threaded thumb piece engageable on the threaded nozzle of the paste tube, said member terminating in a depending tube, a base-washer screw-threaded to the lower end of said tube, packing and a packing follower above said base washer, a coil spring above the packing follower, a body member enclosing the aforesaid elements and having a top loosely engaging the aforesaid tube, and a ball valve suspended from the washer member and spaced from the lower end of the depending tube and adapted to releasably seat on the valve seat of the nozzle extension to control the discharge of paste.

2. In a device of the type described, a paste applicator comprising a channelled screw-threaded member detachably engageable on the threaded nozzle of the paste tube, said member terminating in a depending tube, a base washer on the lower end of said tube, packing and a packing follower above said base washer, a coil spring above the packing follower, a body member enclosing the aforesaid elements and having a top loosely engaging the aforesaid tube, and a ball valve suspended from the washer member and spaced from the lower end of the depending tube and adapted to releasably seat on the valve seat of the nozzle extension to control the discharge of paste.

3. In a device of the type described, a paste applicator comprising a channelled screw-threaded thumb piece engageable on the threaded nozzle of the paste tube, said member terminating in a depending tube, a base washer screw-threaded to the lower end of said tube, packing and a packing follower above said base washer, a coil spring above the packing follower, a body member enclosing the aforesaid elements

and having a top loosely engaging the aforesaid tube, and a valve suspended from the washer member and spaced from the lower end of the depending tube and adapted to releasably seat on the valve seat of the nozzle extension to control the discharge of paste, and an extension nozzle opening out of the lower portion of the body member the upper end of which provides a valve seat for the valve.

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10 4. In a device of the type described, a paste applicator comprising a channelled screw-threaded member detachably engageable on the threaded nozzle of the paste tube, said member terminating in a depending tube, a base washer

on the lower end of said tube, packing and a packing follower above said base washer, a coil spring above the packing follower, a body member enclosing the aforesaid elements and having a top loosely engaging the aforesaid tube, a ball valve suspended from the washer member and spaced from the lower end of the depending tube and adapted to releasably seat on the valve seat of the nozzle extension to control the discharge of paste, and an extension nozzle opening out of the lower portion of the body member the upper end of which provides a valve seat for the ball valve.

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