

Feb. 26, 1935.

C. P. WERNER

1,992,518

APPLICATOR

Filed June 7, 1933

Fig. 1.

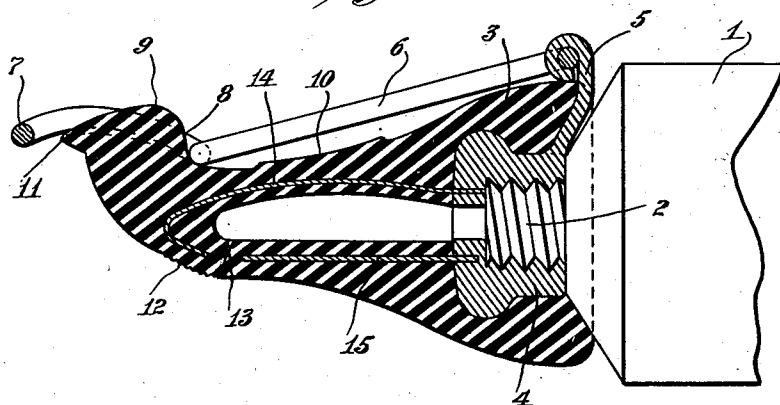


Fig. 2.

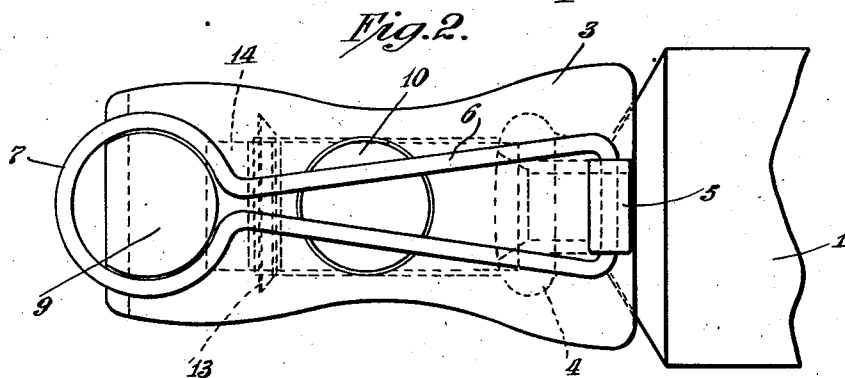
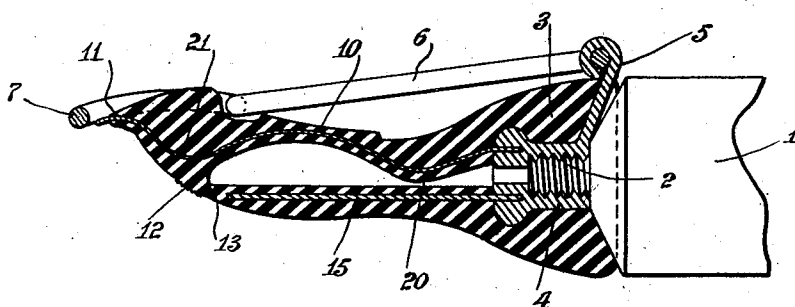


Fig. 3.



Charles P. Werner

INVENTOR

BY *Pamphill*

his ATTORNEY

UNITED STATES PATENT OFFICE

1,992,518

APPLICATOR

Charles P. Werner, Jackson Heights, N. Y.

Application June 7, 1933, Serial No. 674,616

4 Claims. (Cl. 91—67.5)

This invention relates to new and useful improvements in applicators which may be used for dispensing shaving cream, tooth paste or the like.

It is the object of the present invention to provide an applicator which is inexpensive to make and which may be readily attached to a tube of shaving cream or a container of other substance to be dispensed, discharge a small quantity upon pressure applied thereto, and guard the contents of the tube from wastage or contamination when not in use.

The applicator consists of a soft rubber or other pliable housing having a central cavity into which shaving cream or the like may be forced from the container. The cavity is connected with the outside through a discharge slot formed in the housing wall. Means in the form of an outside closing strap, or a spring embedded in the housing wall, or both, maintain the applicator under tension so as normally to close the slot. The tension may be relieved by loosening the strap and by applying pressure on the outside of the housing, whereupon the slot is opened and the contents of the cavity discharged through the slot.

This and other objects of the invention will more fully appear from the following detailed description of two exemplifications of the invention and the appended claims.

In the drawing, Figs. 1 and 2 are a longitudinal cross section and a top plan view, respectively, of one embodiment, and Fig. 3 is a longitudinal cross section of a second embodiment of the invention.

The shaving cream container 1 is provided with the usual screw-threaded nipple 2 on which the applicator housing 3 of soft rubber or other pliable material may be screwed or otherwise mounted. For this purpose an internally screw-threaded hollow metal bushing 4 is held within the applicator with an inlet aperture provided opposite the outlet of the container. A hinge 5 projecting from the bushing 4 carries one end 6 of a closing or tensioning strap, the other end 7 of which is formed into a circle surrounding the roughened knob 8 on top of the applicator 3.

The point where the two parts of the closing strap 6 meet is depressed into a lower plane, as clearly shown in Fig. 1, and presses against the shoulder 8 formed in the applicator, the length of the part 6 of the strap being such as to rotate the head of the applicator so as to close the slot 13 in the lower part thereof.

When it is desired to dispense the contents of

container 1 the latter is rolled up at its end in the usual manner, its contents discharging within the cavity in the center of the applicator 3. The applicator is now placed against the face or other surface or object to be coated with the roughened portion 12 touching the face, the closing strap having been swung back on its hinge 5 by grasping the circular end portion 7 thereof. The user presses down on a roughened portion 10 near the center of the upper surface of the applicator. Tension on the front part of the applicator having been removed by throwing back the closing strap, pressure applied at point 10 will tend to straighten out a spring 14 embedded in the body of the applicator and fastened into the bushing 4. Normally, this spring tends to rotate the front portion of the applicator downward thus closing the slot 13, but when as above stated, pressure is applied at 10, the slot is opened and owing to continued pressure at 10, the contents are forced out from the cavity in the applicator through the slot 13. Bending of the applicator is limited by a metal reinforcing member 15 below the cavity, one end of said member being fastened to the bushing 4.

The shaving cream or the like may be spread by the roughened portion 12 and also by the nose 11 of the applicator. When the applicator is used for dispensing materials such as depilatories, creams or lotions, the nose 11 is preferably of metal or has a blade of metal embedded therein so as to permit its use not only to spread the cream, but also to remove from the skin hair or the like.

In certain cases it may be found that the applicator when pressure is applied at point 10, will tend to discharge its contents not only through the slot but also back into the container 1. In such cases the construction shown in Fig. 3 is preferred wherein the central cavity of the applicator 3 connects with the inlet opening through a restricted passageway 20 which is closed when pressure is applied at 10. It will be noted also that in this construction the end 21 of the spring is bent up instead of downward as shown in Fig. 1 and projects through the nose 11 of the applicator for the purpose of removing hair and the like in the manner previously described.

The slot 13 should preferably be pierced so as to form a clean-cut opening. If the spring 14 is made stiff enough to keep the slot 13 normally closed, the closing strap 6—7 may be dispensed with.

The metal bushing 4 with the reinforcing

member 15 and spring 14 may be either molded into the applicator 3 or the latter may be molded with suitable cavities within which the metallic parts are forced.

5 It will be obvious to those skilled in the art that the structures herein disclosed may be modified both as to details of construction and nature of materials used without departing from the spirit of the invention.

10 What I claim is:

1. In an applicator, a pliable housing having a central cavity and a slot opening into said cavity, means for attaching the applicator to a container of the substance to be dispensed, and a spring embedded in the housing tensioning the latter to close said slot.

2. In an applicator, a pliable rubber housing having a central cavity and a slot opening into said cavity, means for attaching the housing to a container of the substance to be dispensed, a spring and a relatively rigid bar embedded in the housing on two opposite sides of the cavity, and a tensioning strap attached to the outside of the housing.

25 3. In an applicator, a rubber housing open at one end, having a central cavity and a slot connecting said cavity with the outside through the

5 wall of the casing, a hollow bushing in the housing at its open end for attaching the applicator to a container, a restricted passageway in the housing connecting the cavity with the container through said bushing, a metal spring embedded in said housing above the cavity and having one end mounted in said bushing and the other end projecting through said housing, a reinforcing bar embedded in the housing below the cavity and mounted on said bushing, and a closing strap hingedly connected to said bushing and engaging the outside of the housing at a point substantially opposite to the opening of said slot.

15 4. In an applicator, a pliable resilient housing having a central cavity and a slot near the tip of said applicator opening into said cavity, means for attaching said applicator at its base to a container of the substance to be dispensed, a plate rigid as compared with the housing and contacting therewith over a relatively small area near its base, said base terminating at a point between said slot and the base of the applicator whereby the resiliency of said housing will maintain said slot closed unless it is forced open by placing said housing under pressure.

CHARLES P. WERNER.