

Feb. 6, 1951

G. F. POST

2,540,215

TUBE DISPENSER CAP

Filed March 2, 1948

Fig. 1.

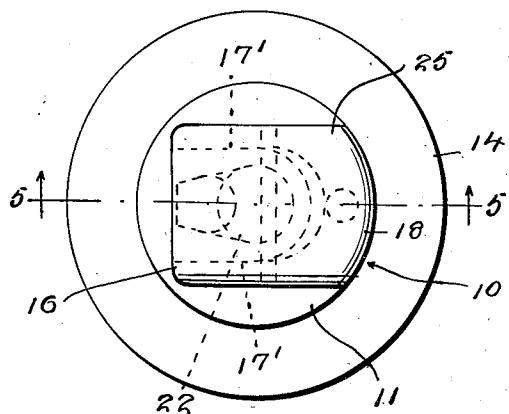


Fig. 4.

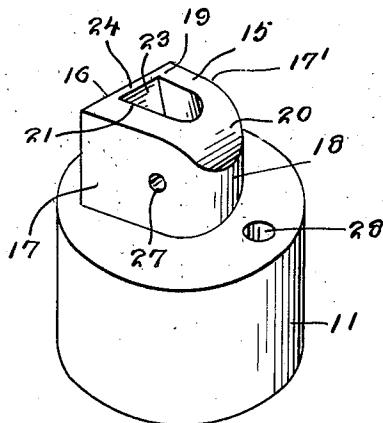


Fig. 2.

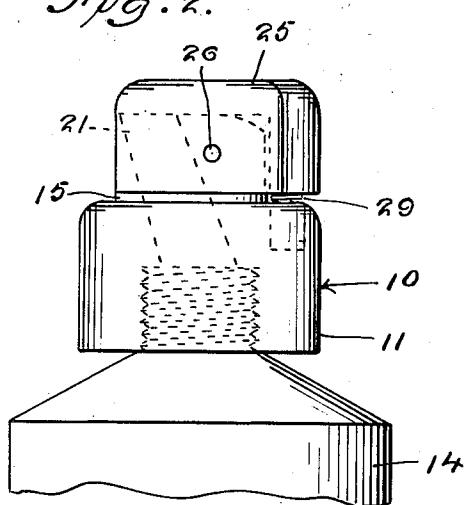


Fig. 5.

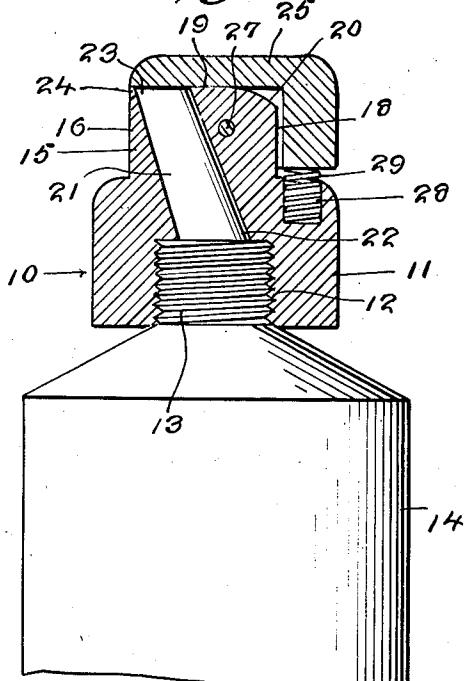
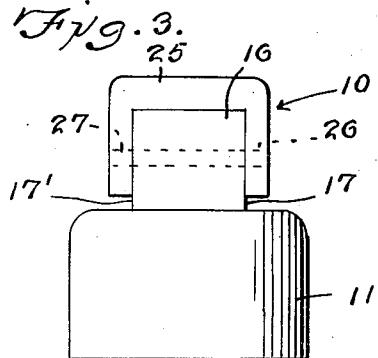


Fig. 3.



INVENTOR.
George F. Post

BY Victor J. Evans & Co.

ATTORNEYS

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TUBE DISPENSER CAP

George F. Post, Weedsport, N. Y.

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1 Claim. (Cl. 222—80)

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This invention relates to a dispensing cap which is particularly designed to be used in conjunction with a collapsible toothpaste or shaving cream tube or tubes holding a fluid or semi-fluid material.

An object of the invention is to provide a dispensing cap that may be distributed with the cap attached in position on the tube or may be sold separately from the tube.

The cap embodying the invention is intended to replace the cap now used on collapsible tubes and, when used, the cap will prevent loss and once fixed in place, there remains nothing to be removed from the tube to gain access to the contents thereof.

The new cap is sanitary in use, attractive in design, and will not easily be damaged to prevent full use of the cap.

With the above and other objects and advantages in view, the invention consists of the novel details of construction, arrangement and combination of parts more fully hereinafter described, claimed and illustrated in the accompanying drawing in which:

Figure 1 is a top plan view of a cap embodying the invention;

Figure 2 is an elevational side view of the cap;

Figure 3 is an elevational front view of the cap;

Figure 4 is a perspective view of the cap with the lid removed and

Figure 5 is a vertical, sectional view on the line 5—5 of Figure 1.

Referring more in detail to the drawing, the reference numeral 10 designates a dispensing cap constructed in accordance with the invention.

The cap 10 comprises a circular body 11, provided at its bottom surface with a threaded bore 12, which is adapted to be screwed onto the threaded neck 13 of a collapsible tube 14.

The body 11 has formed on its upper surface, an offset spout portion 15, having a straight front face 16 and the straight side walls 17 and 17' that merge into the curved rear face 18.

The top of the portion 15 is partially straight, as at 19, and partially curves downwardly as at 20, to merge into the curved rear face 18.

Extending at a forwardly diverging angle in the body 11 and portion 15, is a passageway 21. The passageway, at its lowest end, is round in cross section as at 22, and merges into a U-shaped cross section at its upper end as at 23. The U-shaped formation provides a cutting edge 24 for the material within the tube 14.

A lid or cover 25 is provided for the passageway 21, and a pin 26, passing through the trans-

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verse opening 27 in the portion 15 and the lid or cover 25, pivotally retains the lid on the portion 15.

The lid is formed to cover the top, side and rear surface of the portion 15 leaving the front surface 16 free.

Centrally of the body 11, in the rear of the central line of the portion 15, there is provided a circular seat 28, to receive the coil spring 29.

10 The spring 29 engaging the rear of the cap 25, will force the cap into closed relation with the passageway 21.

All the edges of the cap are rounded to present an attractive appearance, as may be seen from 15 the drawings.

In use with the cap screwed into place on the tube 11, pressure on the tube will force the contents thereof into engagement with the lid 25.

Further pressure on the tube will force the contents to lift the lid and be dispensed outwardly of the passageway 21. The quantity desired is determined by the length of time pressure is maintained on the tube. Upon release of pressure on the tube, the spring 29 will force the lid

20 closed against the cutting edge 24 to stop the flow of the contents of the tube.

The cap may be made of plastic material or die cast metal. It may be formed as previously described, or it may be formed permanently attached to the tube.

25 It is believed that from the foregoing description, the manner of construction and operation of the cap will be apparent to those skilled in the art, and it is to be understood that changes in the minor details of construction, arrangement and combination of parts may be resorted to, provided they fall within the spirit of the invention or the scope of the appended claim.

Having thus described the invention, what is 30 claimed as new and desired to be secured by Letters Patent is:

A dispensing cap of the type described, for use 35 with a collapsible tube having a threaded connection on the end thereof, comprising a body portion, a threaded bore in the bottom surface thereof adapted to engage the connection on the tube, an offset spout portion on the top surface of said body portion, said spout portion having a straight front face and a curved rear face with 40 the side walls being straight and merging into said curved rear face, an angularly disposed passageway extending through said body portion and said spout portion and terminating adjacent the upper edge of the front face, the lower end 45 of the passageway being round in cross section.

and the upper end of said passageway being U-shaped in cross section, the angularity and shape of the upper end forming a cutting edge on said spout portion, a lid pivotally mounted on said spout portion, and said lid having an open front wall and being formed to cover the top, sides and rear surfaces of said spout portion, the body portion having a circular seat at the rear of said spout portion and a spring mounted in the circular seat in said body portion and engaging the portion of said lid covering the rear face of the body portion to force said lid into closing relation with said passageway.

GEORGE F. POST.

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