Aug. 25, 1936. J. S. GRAHAM 2,052,347

COLLAPSIBLE TUBE CAP

Filed Sept. 26, 1935

Fig. 3.

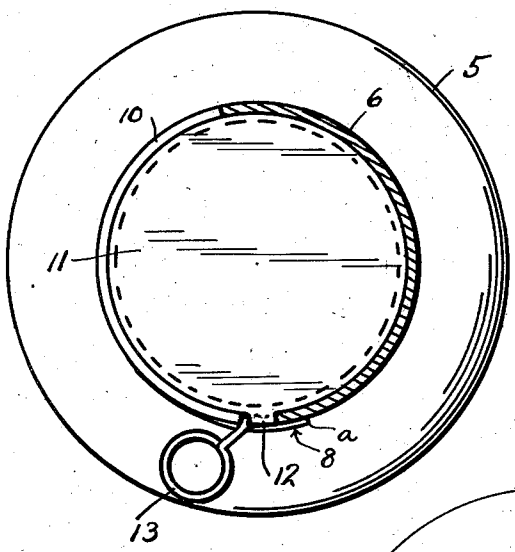


Fig. 2

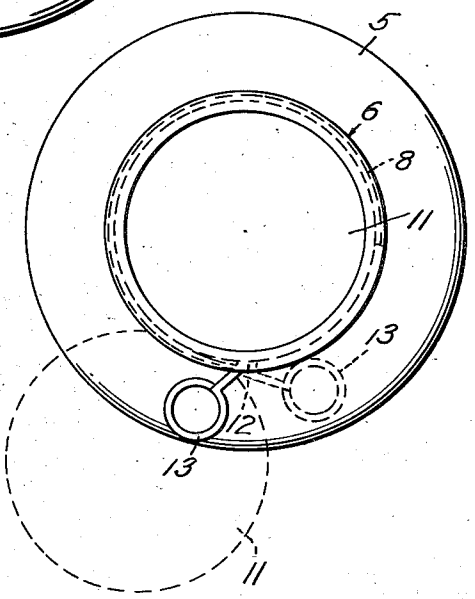


Fig. 4.

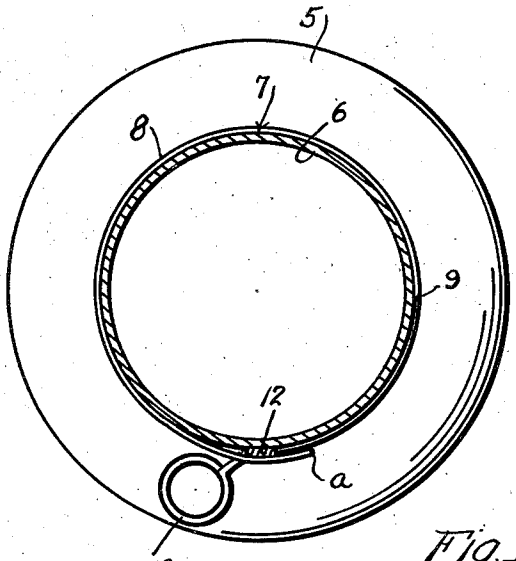
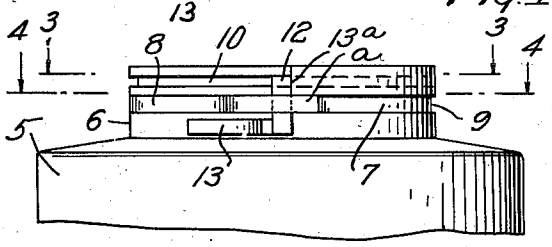


Fig. 1



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COLLAPSIBLE TUBE CAP

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Application September 26, 1935, Serial No. 42,316

2 Claims. (Cl. 221—60)

This invention appertains to new and useful improvements in tube caps especially adapted for use on a tube of the collapsible type.

The principal object of the present invention is to provide a cap for tubes wherein the tube can be opened without entirely removing the cap from the tube neck.

Another important object of the invention is to provide a collapsible tube cap wherein the cap can be swung laterally and not be in the way when the contents of the tube are being discharged.

Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawing:

Figure 1 represents a fragmentary side elevational view of the cap and tube.

Figure 2 represents a top plan view of the tube with the cap closed and showing in dotted lines the open position of the cap.

Figure 3 represents a cross sectional view taken substantially on line 3—3 of Figure 1.

Figure 4 represents a cross sectional view of the cap taken substantially on line 4—4 of Figure 1.

Referring to the drawing wherein like numerals designate like parts, it can be seen that numeral 5 represents the tube proper while numeral 6 represents the neck of the tube.

This neck 6 is provided with a circumferentially extending grooveway 7 for receiving the elongated strip spring 8, one end of which is anchored to the neck as at 9.

The upper portion of the neck 6 is provided with a slotway 10 which extends substantially halfway around the neck and through this is movable the disk shaped closure 11. This closure 11 is provided with a depending leg 12 extending downwardly through a channelway 13*a* in the neck 6 and terminates in a laterally disposed finger ring 13.

The free end portion A of the spring 8 extends over the leg portion 12 of the closure 11, engaging against the flat side of the leg to retain the closure plate 11 disposed over the opening in the neck 6.

When it is desired to swing the closure 11 to an open position, the finger ring 13 is pulled to the right as shown in Figure 2, which swings the closure plate 11 outwardly through the slotway 10 to the dotted line position shown in Figure 2. Thus the closure plate is entirely out of the way when the discharge of the contents of the tube takes place.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit or scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

1. In a collapsible tube, a neck portion, said neck portion, being provided with a slotway extending circumferentially for substantially one-half of the circumference, a closure plate operative through the said slotway to close off the interior of the neck, and a handle for the said closure plate whereby the plate can be moved through the slot way to an external position, said closure being provided with a leg on which the handle is provided and a strip spring secured at one end to the neck portion and impinging at its opposite end against the leg to retain the closure in closed position.

2. In a collapsible tube, a neck portion, said neck portion, being provided with a slotway extending circumferentially for substantially one-half of the circumference, a closure plate operative through the said slotway to close off the interior of the neck, and a handle for the said closure plate whereby the plate can be moved through the slotway to an external position, said neck being provided with a circumferentially extending grooveway, a strip spring in the grooveway, one end of the strip spring being anchored to the neck portion, a handle extending from the closure plate, the opposite end of the spring normally engaging the said handle to retain the closure plate in closed position.

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