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H. S. BRADY
BOTTLE OR JAR CLOSURE
Filed May 13, 1932

1,992,181

Fig. 1.

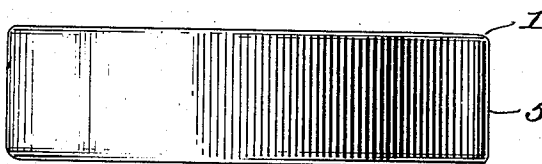


Fig. 2.

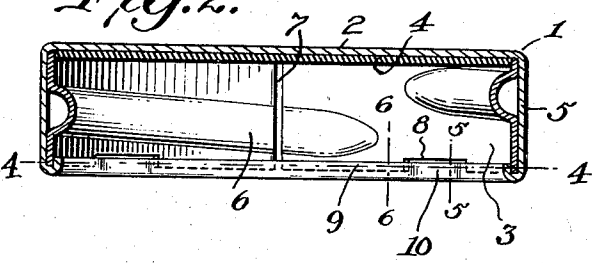
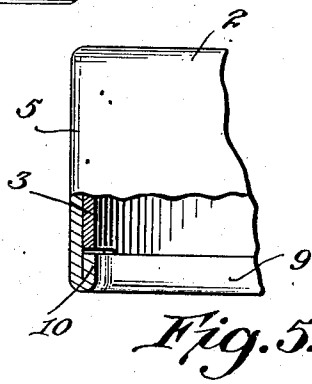


Fig. 3.

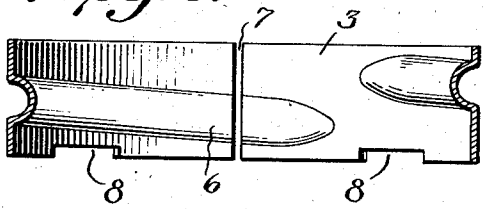
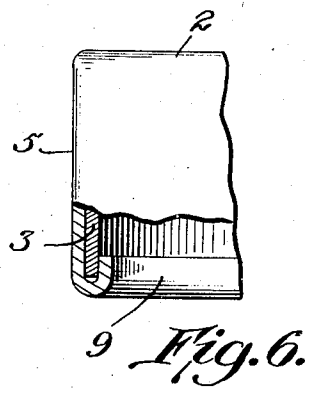
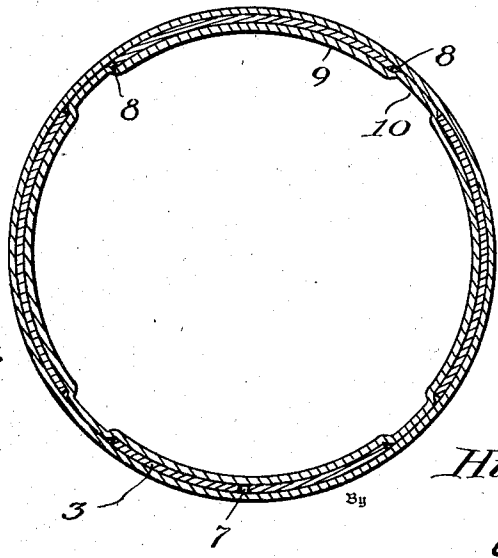


Fig. 4.



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UNITED STATES PATENT OFFICE

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BOTTLE OR JAR CLOSURE

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Application May 13, 1932, Serial No. 611,181

3 Claims. (Cl. 215-43)

This invention relates to metallic screw caps for bottles and jars and is directed especially to the reduction in cost of caps of the type in which an outer plain shell is employed to give the appearance of a molded cap.

Another object of the invention resides in providing a more intimate connection between the outer shell and the inner threaded member, to eliminate any possibility of relative movement between these parts.

Other objects and advantages of the invention will be apparent from the following description when considered in connection with the accompanying drawing; in which,

Figure 1 is a side elevational view of the completed cap.

Figure 2 is a vertical sectional view through the cap of Figure 1.

Figure 3 is a vertical sectional view through the inner band.

Figure 4 is a horizontal sectional view taken on line 4-4 of Figure 2; and

Figures 5 and 6 are vertical sectional views taken on lines 5-5 and 6-6, respectively, of Figure 2.

More specifically, the completed cap, which is referred to by the numeral 1, comprises an outer shell 2, an inner band 3, and a conventional liner 4.

The outer shell is of cap shape and consists of a top, and a skirt portion 5. The inner band 3 is rolled from a flat strip into circular shape and is provided with a screw thread or similar attaching means 6. The inner band 3 has an outer circumference slightly less than the inner circumference of the skirt of the outer shell, whereby normally the ends of the band are slightly spaced, as indicated by numeral 7, thus permitting the assembling of the parts in spite of minor inaccuracies in their fabrication.

It will be understood that any relative movement between the outer shell and band would render the caps entirely useless, and to eliminate this possibility a positive lock between the two parts is provided. For this purpose the lower edge of the inner band 2 is provided with one or more notches 8. Into these notches 8 a portion 10 of the flange 9 is pressed when this flange is spun over the edge of the inner band 3. This

construction is shown more clearly in Figures 2, 4 and 5 and obviously provides a positive safeguard against slippage between the shell and the threaded band.

From the foregoing description and attached drawing it will be seen that I have provided a screw cap formed of sheet metal in which the exterior surface of the completed cap is entirely smooth in simulation of a molded cap; that the amount of metal employed in such caps is substantially reduced; and that the interlocking connection between the outer shell and inner band avoids any liability of relative rotary movement between these parts.

In accordance with the patent statutes I have described herein the preferred embodiment of the invention, but obviously various changes may be made without departing from the spirit of the invention, and all such changes are intended to be included within the scope of the appended claims.

What I claim is:

1. A screw cap closure for bottles and the like including a smooth outer shell comprising a top and a skirt, an inner band formed from a flat strip and provided with thread-engaging means, the lower portion of the skirt provided with an inturned bead, a portion of said bead fitting into a notch provided in said band, whereby the means for preventing relative rotation between the shell and band is hidden from view.

2. A screw cap closure for bottles and the like including a smooth outer shell comprising a top and a skirt, an inner band formed from a flat strip and provided with thread-engaging means, the lower edge of said inner band provided with notches, a flange turned inwardly and upwardly from the outer shell and overlapping the lower edge of the inner shell, and portions of said flange being seated in said notches.

3. A screw cap closure for bottles and the like including a smooth outer shell comprising a top and a skirt, an inner member provided with thread-engaging means and having a notch adjacent its lower edge, an inturned flange for securing the parts together, and a portion of the flange seated in said notch.

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