J. F. DOWD.

BOTTLE TOP.

APPLICATION FILED DEC. 23, 1920.

1,419,829. Patented June 13, 1922.

Fig. 1.

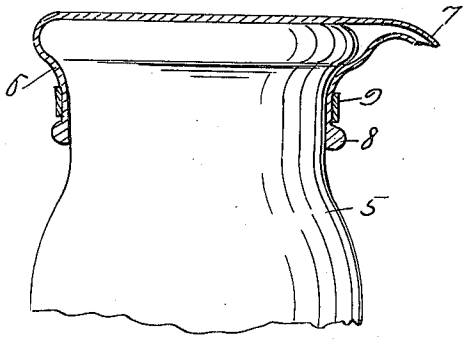
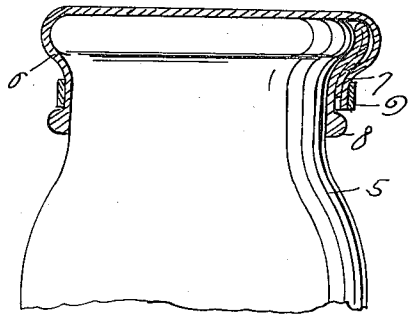


Fig. 2.



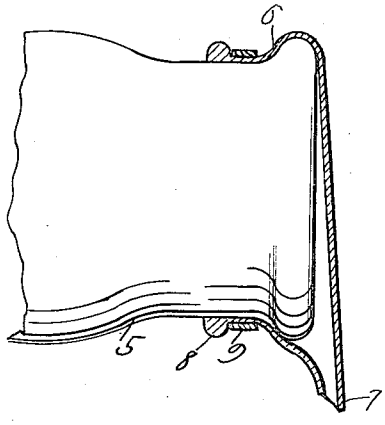


Fig. 3.

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BOTTLE TOP.

1,419,829. Specification of Letters Patent. Patented June 13, 1922.

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To all whom it may concern:

Be it known that I, JAMES F. DOWD, a citizen of the United States of America, and resident of Newport, in the county of Newport and State of Rhode Island, have invented certain new and useful Improvements in Bottle Tops, of which the following is a specification.

This invention relates to tops for bottles and particularly to a combined dispensing and sealing top.

An object of this invention is to produce a bottle cap or cover provided with a flexible spout capable of being opened by gravity or the force of the outflowing fluid, the said cap being of such material as to cause collapsing or contraction of the spout in order that it will be self-sealing to an extent which will prevent free access of air to the interior of the bottle.

It is an object of this invention to produce a top and spout preferably of rubber, capable of dispensing or discharging fluid when the bottle is tilted or tipped which spout becomes closed when the bottle is righted so that the contents of the bottle is sealed from the air.

It is furthermore an object of this invention to produce an auxiliary fastening by which the spout is compressed against the side of the cap and held in closed condition.

A still further object of this invention is to produce a cap or cover which can be applied to and removed from bottles, jars or the like, and the said invention is of particular importance in connection with use on milk bottles as it can be temporarily applied to a milk bottle after the same is unsealed and the said cap or cover will allow for the pouring of the milk from the bottle, whereas it will be automatically sealed to an extent as to prevent access of air to the interior of the bottle, which might impair the quality of the milk.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in elevation of a fragment of a bottle showing the device embodying the invention in section;

Figure 2 illustrates a similar view showing the parts in different positions of adjustment; and

Figure 3 illustrates a similar view showing the bottle tilted for pouring.

In these drawings 5 denotes the bottle, 6 a cap and 7 the spout formed as a part of the cap, the said cap and spout being preferably formed of rubber.

The cap and spout are formed in a manner to cause the spout to extend laterally of the cap and its flange, a construction which is simple, since it only requires that the cap be enlarged or extended on one side and apertured to form an opening for the spout.

As shown in the drawing the cap may have a marginal bead 8 to facilitate manipulation of the cap in applying and removing it from a bottle, and when desired, a retaining band 9 of rubber may be employed embracing the cap just above the bead, the said band being preferably flexible and capable of being extended to embrace the spout when the said spout is bent downwardly as shown in Fig. 2. In this use of the device the spout is more fully sealed against the circulation of air therethrough and this expedient may be employed when the bottle is to be transported or is to remain standing for some length of time. For ordinary purposes, however, as when the bottle is kept in a refrigerator and the contents is being used from time to time, the character of the material of which the spout is formed is to be such as to cause the throat or opening in the spout to become closed, it being understood that the said material shall be yieldable to permit the formation of a passage through which the fluid will flow when the bottle is in position to pour the contents.

While I have shown this device in practical application, associated with a milk bottle, it is to be understood that the inventor does not restrict himself with respect to its employment and that many other uses will suggest themselves in practice.

It will be observed that the cover and spout can be constructed inexpensively and of course they will prove durable if proper material and treatment is employed in the production of the device.

I claim:

In a combined cover and spout for bottles, a cap having a side portion adapted to embrace a bottle neck and a covering portion adapted to extend over the mouth of a bottle, the said covering portion being extended on one side and adapted to project beyond the side of a bottle and merging with an extension of the side portion of the cap, the said cover having an aperture at approximately the point of merger of the said covering portion and side portion.

JAMES F. DOWD.