

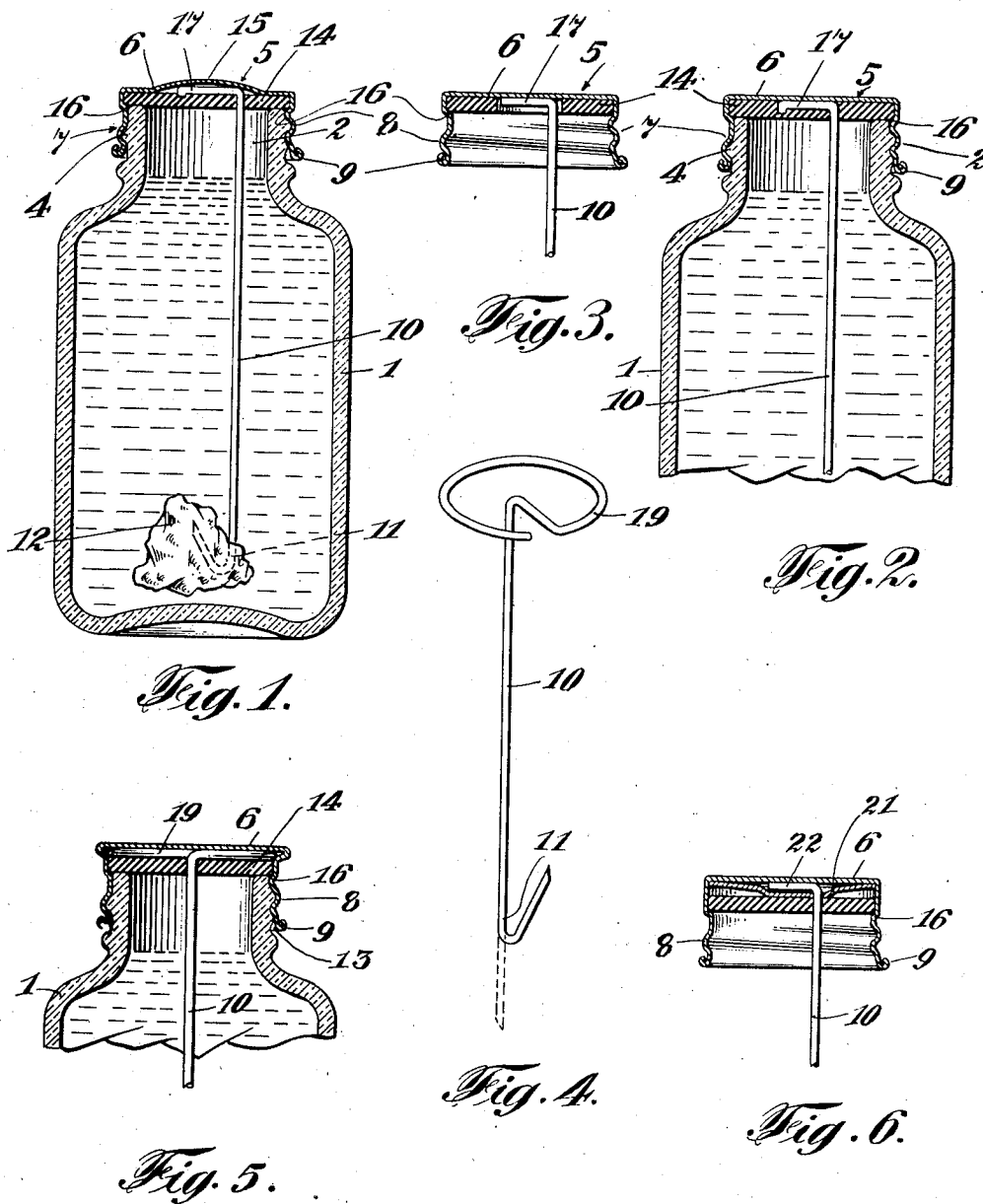
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METALLIC CAP AND DAUBER

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METALLIC CAP AND DAUBER.

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The present invention relates to closures and packages and more particularly to closures and packages having daubers associated therewith.

5 An object of the present invention is the provision of a very effective and inexpensive closure cap with a dauber attached thereto.

Another object of the invention is to provide an inexpensive cap and dauber which
10 will effectively and positively seal bottles and other containers without danger of the seal being broken in shipment and subsequent handling to which the receptacles are subjected.

15 A further object of the invention, is the provision of a metallic screw cap adapted to be attached to the mouth of a container and having a sealing gasket in the upper portion thereof, with a shank for a dauber extending through the gasket and attached to the upper portion of the cap.

A more specific object of the invention is the provision of a screw cap having an annular recess at the junction of the skirt and cover portions thereof; the provision of a
25 dauber shank having one of its ends formed into a resilient coil adapted to be sprung into said recess to hold the dauber shank rigidly in position on said cap; and the further provision of a sealing gasket adapted to fit in the upper part of said cap over said
30 coil to be seated between said coil and the mouth of a container to form an effective seal therebetween.

35 Other and further objects of the invention will be in part obvious and will in part be pointed out hereinafter in the specification following by reference to the accompanying drawings forming a part of this application and wherein like parts are represented by like characters throughout the several figures thereof.

A preferred embodiment of the invention has been selected for the purposes of description and is shown in the drawings wherein,
45 Fig. 1 is a cross sectional view of one form of the invention applied to a container.

Fig. 2 is a cross sectional view showing another way of attaching the dauber shank
50 to the cap.

Fig. 3 is a cross sectional view of a cap showing another form of the invention.

Fig. 4 is a perspective view of one form of dauber shank.

Fig. 5 is a cross sectional view showing the dauber shank of Fig. 4 mounted in a cap; and

Fig. 6 shows an attachment in the upper part of the cap for holding the dauber shank.

In packaging certain fluids, such as shoe polishes and the like, it is desirable to furnish the consumer with some means of applying the polish. It has been customary in the art to pack the bottles or other receptacles in paper cartons and to enclose suitable brushes or sponges for use of the consumer and in some cases temporary covers for the bottles are also furnished so that the cork stopper originally used to seal the containers can be removed and thrown away and the temporary covers placed on the containers. These covers usually have apertures in their upper portions to receive the handle of the brushes and do not seal the containers
75 but leave their contents exposed to the atmosphere. In many instances, the brushes and covers are lost either by the consumer or in transit and even if they are not lost, their use after the original cork has been removed does not seal the containers and the contents deteriorate from exposure to atmosphere.

In certain instances, some form of a dauber is attached to a cork stopper and
85 the cork inserted into the mouth of a bottle and sealed with paraffin wax, glue, or some other suitable substance. The objection to this is that the glue or wax is ineffective when the cork is removed by the consumer
90 and the corks are not positively held in the containers thereafter and therefore frequently come out permitting the contents to waste and damage other articles nearby. Furthermore, cork stoppers cannot be readily used
95 with certain types of metallic containers while screw caps are inexpensive and excellently adapted for all screw threaded receptacles.

The present invention eliminates the difficulties of the prior art by providing a combined dauber and metallic screw cap which may be conveniently and inexpensively manufactured, and which is adapted to form a positive seal on a receptacle irrespective of its character or of how many times the cap is removed and replaced in dispensing the contents.
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Referring generally to the construction, the invention comprises a screw cap having a cover portion and a threaded depending skirt preferably formed with a wire edge at the bottom thereof. A dauber shank is bent at one end to accommodate a dauber and bent at its other end to engage and be secured to the cap. The upper end of the dauber shank may be coiled so that it can be sprung into an annular recess in the upper part of the cap or it may be bent in any fashion to facilitate a rigid connection to the cap. If desired, the end of the dauber may be soldered or welded to the cover portion of the cap.

Referring to the drawings, there is shown a container 1 having a mouth 2 threaded at 4 to accommodate a cap 5. The cap comprises a cover portion 6 having a depending skirt 7 threaded at 8 to engage the threads on the mouth of the bottle and having a wire edge 9 at the bottom of the skirt. A shank 10 is attached in some manner to the metallic cap in each of the forms of the invention, and has its free end bent at 11 to accommodate a sponge 12 or other suitable absorbent to form a dauber.

In Fig. 1, the upper end of the shank 10 extends through a gasket 14 and is bent into an L shape with the horizontal portion of the L bent to engage the gasket. The cover of the cap is bent upwardly at its center portion to form a recess 15 of sufficient depth to accommodate the upper end of the shank 10 without depressing the center portion of the gasket, at the same time being sufficiently contiguous to the horizontal part of the shank to hold it in position in the gasket. The skirt of the cap is pressed inwardly about the bottom of the gasket to form an annular shoulder 16 to engage and hold the gasket in position against the cover portion of the cap. The gasket may be secured to the cover portion of the cap by glue or other coherent material, thereby eliminating the necessity for a holding shoulder. In some cases it may be advisable to utilize both the annular shoulder and a suitable cement to prevent the dislocation of the gasket due to the pressure applied to the dauber in the use thereof.

The cap and dauber shown in Fig. 2 are similar to that shown in Fig. 1 with the exception that the upper end 17 of the dauber is pressed into the gasket so that the gasket fits flatly against the cover portion of the cap without necessitating a recess in the cap to accommodate the upper end of the shank. In either of these structures the dauber shank may be soldered or welded to the cover portion of the cap, if desired in addition to being held in position by the gasket.

There is shown in Fig. 3 a cap similar to that shown in Fig. 2 having a gasket 14 therein in the form of a washer, that is,

with an aperture through its center to accommodate the upper L shaped portion 17 of the shank 10 which may be secured to the cover portion of the cap in any suitable manner, as by welding or soldering.

In Figs. 4 and 5, there is shown a dauber shank 10 having its upper end bent into a resilient coil 19, which is in a plane substantially perpendicular to the shank of the dauber. Preferably the coil is bent to form almost a complete circle, the free end being able to move slightly to render it more resilient and to adapt the coil to be sprung into the skirt of the cap which is of substantially the same diameter. At the junction of the skirt and cover portions of the cap in Fig. 5 there is formed an annular recess 13 which may be sufficiently small to prevent the coil from being completely enveloped thereby, but which permits the coil to be sprung thereinto and to press outwardly against the shoulder thereof to hold the dauber shank rigidly in position. The gasket 14 fits over the coil 19 and is adapted to be seated between the coil and the mouth of the vessel to form a secure and perfect seal therebetween. The pressure exerted upon the gasket by the coil and the mouth of the vessel flattens it so that its periphery engages the inner wall of the skirt and increases the effectiveness of the seal.

The construction in Fig. 6 discloses a dauber shank extending through a metallic disc 21 in the upper part of the cap and secured thereto by the bent portion 22. The diameter of the disc normally is slightly greater than the inner diameter of the skirt of the cap and is adapted to be dished to decrease its diameter before insertion into the cap, and adapted to press against the skirt of the cap when the dishing forces are removed to secure the disc in position. The gasket 14 may fit in the cap over the disc 21 for sealing purposes. It will be noted that the gasket may, in any form of the invention, be placed on the dauber shank prior to the bending of one of its ends to facilitate assembling of the parts.

While several forms of the present invention have been described, it must be understood that many variations can be made from any one or all of these forms without departing from the spirit of the invention, and the above description is therefore to be taken as illustrative and not in a limited sense.

I claim:

1. As an article of manufacture, a screw cap comprising a cover portion, a skirt depending from said cover portion having screw threads therein for attachment to the mouth of a container, a sealing gasket below said cover portion, a shank extending through said gasket and adapted to accommodate a dauber at one end thereof, an an-

nular recess at the junction of the skirt and cover portion of said cap, and means between said gasket and said cover on the other end of said shank for securing same in said recess.

2. As an article of manufacture, a metallic cap comprising a cover portion, a skirt depending from said cover portion, an annular recess at the junction of the skirt and the cover portion in the upper part of said cap, a shank having its upper end bent into a resilient coil formed in a plane substantially perpendicular to the shank, the diameter of the coil being substantially equal to the diameter of said recess so that the coil may be sprung into said recess to hold the shank rigidly in position.

3. The combination of a metallic cap, having a cover portion and a depending skirt, a shank having one of its ends coiled to engage resiliently the cap at the junction of the skirt and cover portion, a container adapted to be threaded to said cap, and a sealing gasket adapted to be seated between said coil and the mouth of said container to seal said container.

4. The combination of a metallic cap, having a cover portion, a depending skirt and an annular recess at the junction of said skirt and said cover portion, a shank having one of its ends coiled to engage the recess in said cap, a container adapted to be threaded to said cap, and a sealing gasket adapted to be seated between said coil and the mouth of said vessel to seal said container.

5. As an article of manufacture, a metallic cap comprising a cover portion, a skirt depending from said cover portion, a shank having its upper end bent into a re-

silient coil formed in a plane substantially perpendicular to the shank, the diameter of the coil being substantially equal to the diameter of the skirt so that the coil may be sprung into the skirt to hold said shank rigidly in position, and an absorbent on the lower end of said shank.

6. In combination, a metallic cap having a cover portion and a depending skirt, a sealing gasket below the cover portion of said cap, a shank extending through said gasket and having one of its ends adapted to accommodate an absorbent, a recess between said gasket and said cover portion, means for securing said shank rigidly in said recess, and a container adapted to receive the free end of said shank when said cap is secured thereto.

7. The combination of a metallic cap having a cover portion and a depending skirt with an annular recess therebetween, a shank having one of its ends formed into a single resilient coil to engage the recess at the junction of the skirt and cover portion, a container adapted to be threaded to said cap, and a sealing gasket adapted to be seated between said coil and the mouth of said container to form an end seal thereon.

8. In combination, a metallic cap having a cover portion and a depending skirt, a sealing gasket below the cover portion of said cap, a shank extending through said gasket and adapted to extend into a container when said cap is placed over the mouth of the container, a recess between said gasket and said cover portion, and means for securing said shank rigidly in said recess.

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