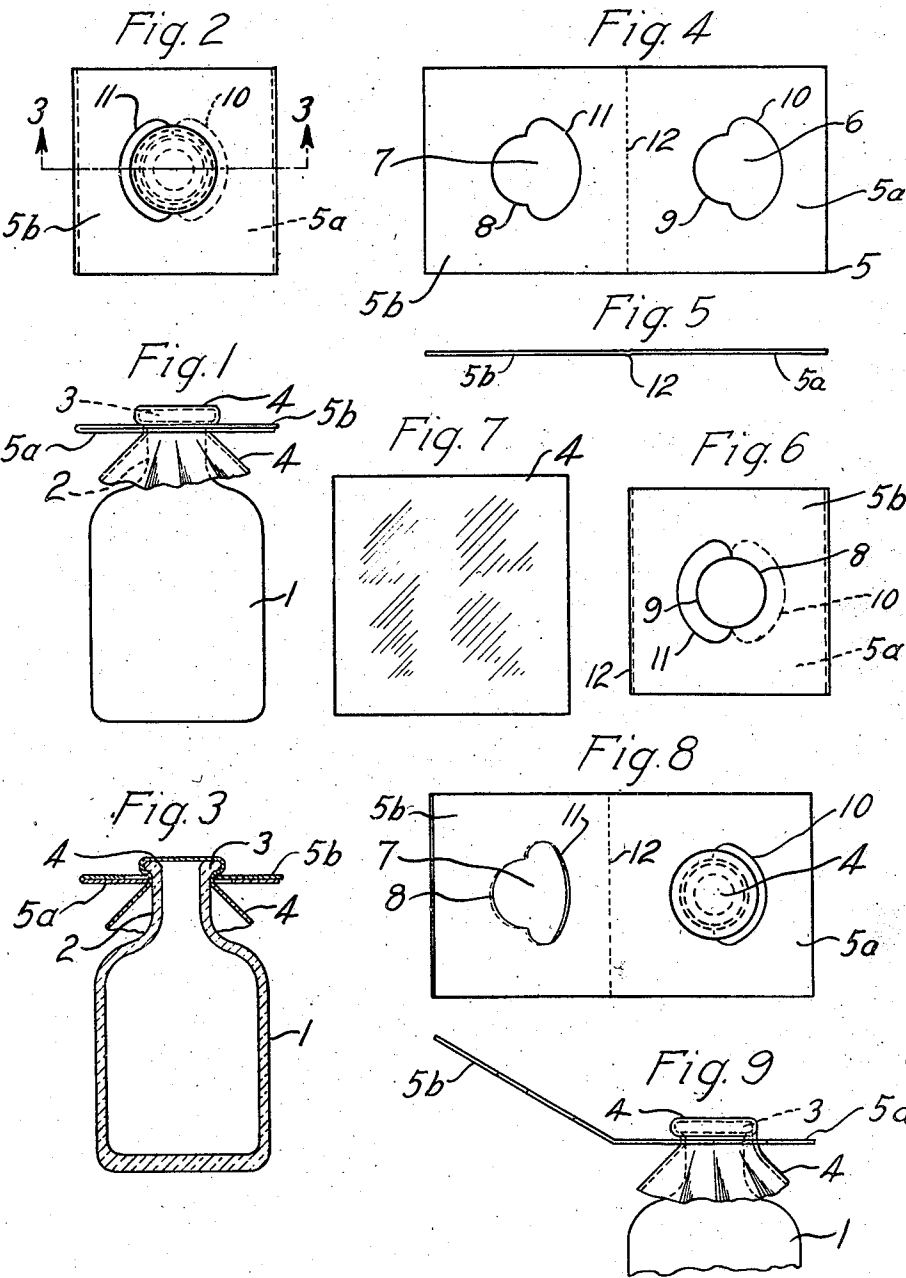


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R. W. HOAG
CONTAINER AND CLOSURE
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INVENTOR.

Roderick Wm Hoag

UNITED STATES PATENT OFFICE

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CONTAINER AND CLOSURE

Roderick W. Hoag, Melrose, Mass., assignor to
Harlow M. Russell and Melvin H. Sidebotham,
copartners doing business as Russell & Side-
botham, Melrose, Mass.

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2 Claims. (Cl. 215—95)

My invention relates to containers and closures therefor, and has particular reference to the production of an inexpensive, sanitary closure for bottles and other containers.

My improved container closure is particularly adapted for use in hospitals and homes for closing nursery milk bottles to protect the contents until ready for use. It is to be understood, however, that my improved closure is intended for universal use for closing bottles and other receptacles.

This present invention comprises improvements over the container and closure described and claimed in my co-pending application filed February 9, 1943, and to which was assigned Serial No. 475,241.

In the preferred embodiment of my invention, the container closure is composed of a cover element of flexible paper, foil, Cellophane or other suitable material, and a collar element of relatively stiff paperboard or like material divided into two sections by a creased line, each section having an opening in the mid-portion thereof.

The closure is applied to the container by first placing the cover element over the mouth and neck of the container. The collar is then superimposed upon the cover element with the opening in the first section of the collar over the mouth of container. The collar is then manipulated downward to cause the neck of the container and the central portion of the cover element to project through said opening. The collar is then folded on the creased line and the second section of the collar manipulated to bring the said second section flat against the first section of the collar with the cover element and neck of the container projecting through both openings in the collar.

One object of my invention is to provide a sanitary container closure that is easily applied and easily removed.

Another object of my invention is to provide a closure of the general type described wherein the paperboard collar may be applied and removed from the container without damaging the collar. Thus my improved closure may be used many times before it is discarded.

With said objects in view, and others herein-after explained, my invention consists in the container with closure as hereinafter described and claimed.

Of the accompanying drawing:

Fig. 1 is an elevation of the container with the closure in position closing the mouth of the container.

Fig. 2 is a plan view of Fig. 1.

Fig. 3 is a section at 3—3 of Fig. 2.

Fig. 4 is a plan view of the closure collar.

Fig. 5 is an edge view of Fig. 4.

Fig. 6 is a plan view of the closure collar folded to the condition it assumes when assembled with the cover element on the container.

Fig. 7 is a plan view of the flexible cover element.

Fig. 8 is a plan view of the container collar with one section of the collar in place over the cover element and over the mouth and neck of the container, with the other section of the container collar in position ready to be folded and applied over the cover element.

Fig. 9 is an elevation of Fig. 8 with part of the container omitted.

Similar reference characters indicate similar parts or features in all of the views.

Referring to Figs. 1, 2 and 3 the container 1 has a neck portion 2 for dispensing the contents of the container. An annular bead 3 is usually provided at the upper portion of the neck of the container. It is not necessary that the container be of any particular construction, so long as there is an area around the mouth of the opening to which the cover element may be secured by an exteriorly positioned collar.

The cover element 4 (Figs. 1, 3, 7 and 9) is preferably made of flexible sheet material such as paper, foil, or sheeted cellulosic material. It may be made to any desired shape and dimensions. The cover element should be of ample proportions so that it may be easily held in place while the collar is being assembled to secure the cover element to the neck of the container.

The collar 5 (Fig. 4) may be made of any desired material such as paper, paperboard, Cellophane, Celluloid, or the like. For most purposes, paper or paperboard has been found to be adequate.

The outside dimensions of the collar 5 need be only sufficient to give the necessary strength and rigidity for the purpose of holding the cover element tightly in place on the container. The finished collar is preferably of rectangular or square shape. However, the collar sections 5a and 5b may be of any desired shape so long as there is a hinge connection between the two sections.

The openings 6 and 7 are substantially the same in shape, with semicircular portions 8 and 9 cut to the size necessary to fit the neck of the container under the bead 3, to hold the cover element 4 tightly against the container neck.

The portions 10 and 11 of the openings 6 and 7 respectively, are cut to a size, larger than the corresponding semicircular portion, to provide openings 6 and 7 sufficiently large to easily pass over the bead 3 of the container.

A creased or scored line 12 is provided in the collar so that when the collar is folded or doubled thereon the semicircular portions 8 and 9 of the said openings 7 and 6 form a circular opening which serves to hold the cover element tightly against the neck of the container below the bead thereon.

The collars 5 are in practice preferably manufactured by automatic machinery, a web of material being drawn from a roll and cut, punched and creased to provide finished collars. In some cases a printing unit is provided to print or impress any desired indicia on the collars for advertising or instruction purposes.

In using this improved container closure, the cover element 4 is first laid over the mouth and neck of the container. The collar 5 is then superimposed upon the cover element 4, with the opening 6 in section 5a over the mouth and neck of the container. The collar section 5a is then manipulated and pressed downwardly to cause the areas around the opening 6 of the collar 5 to wrap the cover element about the mouth and neck of the container. The collar section 5a is then drawn horizontally to bring the edge of the collar, about the semicircular opening 9, into position to press the adjacent portion of the cover element tightly against the neck of the container. The section 5b is then folded on creased line 12 to bring the opening 7 above the mouth and neck of the container. The section 5b is drawn horizontally causing the section 5a to flex along the areas thereof adjacent to the creased line 12, thus permitting the opening 7 to easily pass downwardly over the bead 3 of the container. The collar is then manipulated to bring the semicircular edges 8 of opening 7 into position pressing

the adjacent portion of the cover element tightly against the neck of the container below the bead thereon. Thus the operation of closing the container is effected.

5 My invention is not limited to the embodiment herein shown and described, its scope being set forth in the appended claims.

Having described my invention, what I claim is:

10 1. In combination, a container having a dispensing mouth and neck with an exteriorly positioned head, and a closure for the container, the said closure comprising a cover element and a doubled-flat collar for frictionally holding the cover element over the mouth and neck of the container, the said cover element comprising a foldable, flexible sheet of cellulosic material wrapped over the mouth and neck of the contain-
15 er; the said collar being a sheet of material divided into two sections each having an opening therein of irregular contour, the contour of each opening being in part semicircular and located so that when the collar sheet is folded double the semicircular outlines of the two openings meet to form a circular opening.

25 2. In combination, a container having a dispensing mouth, and neck with an annular, exteriorly positioned bead, and a closure for the container, the said closure comprising a cover element and a doubled-flat collar for friction-
30 ally holding the cover element over the mouth and neck of the container, the said cover element comprising a foldable, flexible sheet of cellulosic material wrapped over the mouth and neck of the container; the said collar being
35 made from a rectangular, doubled-flat sheet of paperboard, each part of the doubled collar sheet having in its mid-portion an opening of irregular contour, the said contour of the opening in each part of the doubled collar being in part
40 semicircular and located so that the doubled-flat collar presents a circular opening.

RODERICK WM. HOAG.