

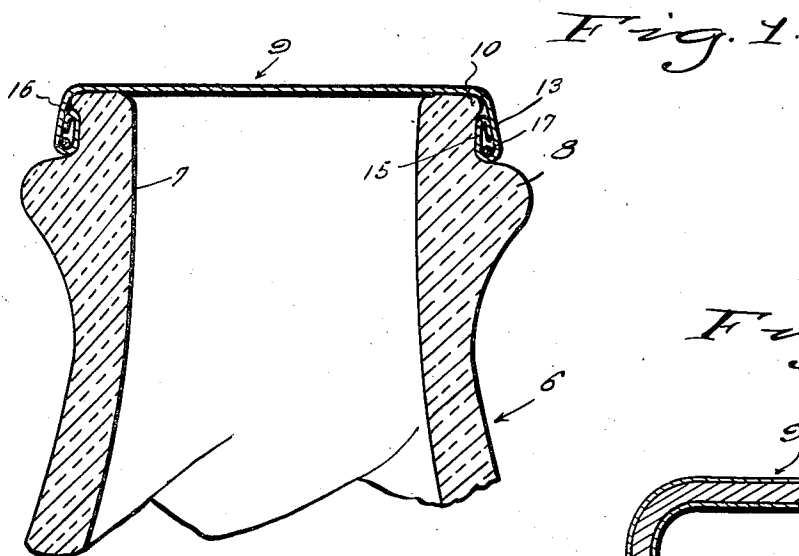
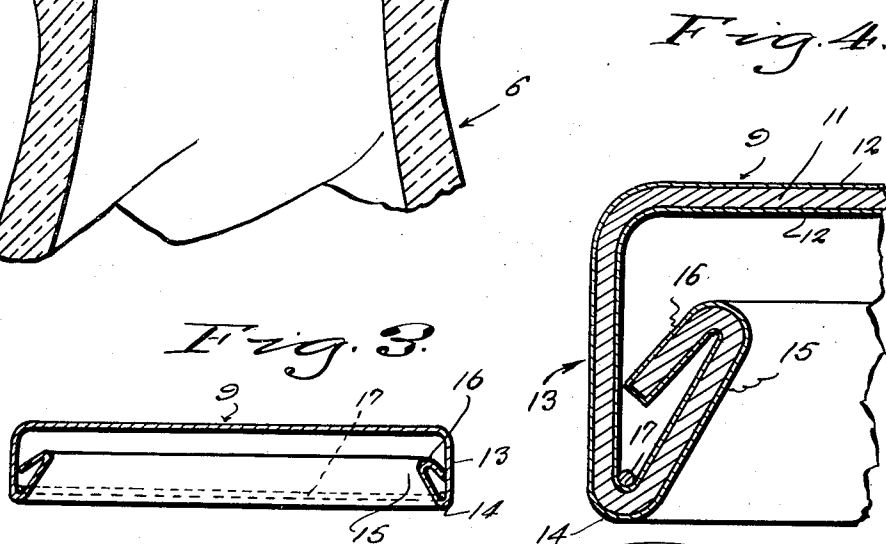
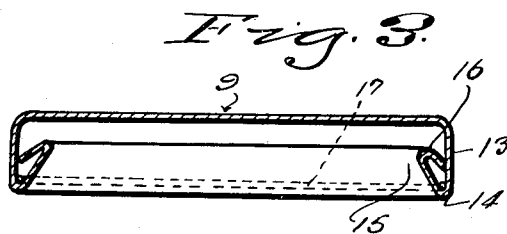
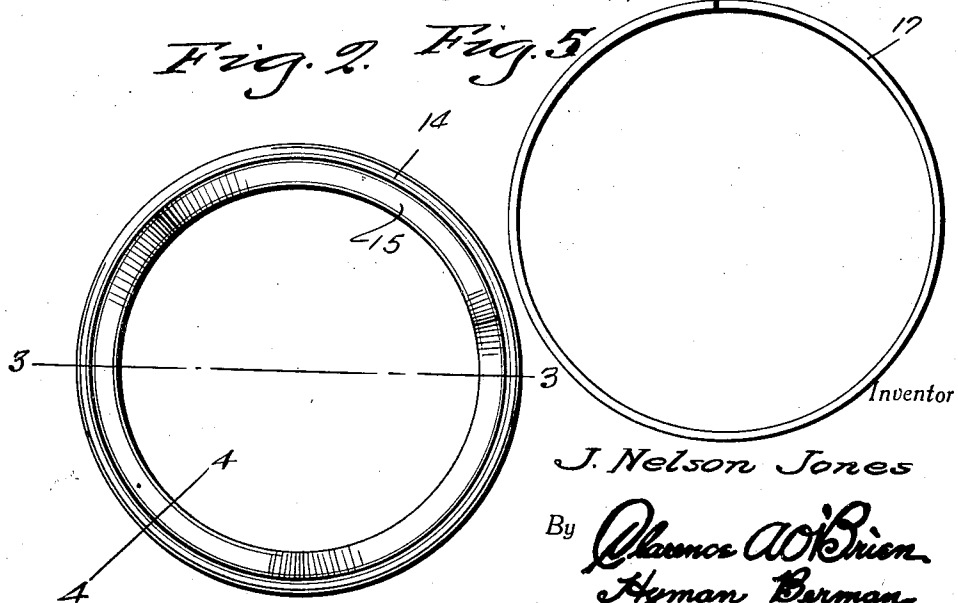
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CONTAINER AND CLOSING CAP THEREFOR

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CONTAINER AND CLOSING CAP THEREFOR

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2 Claims. (Cl. 215—38)

This invention relates to a combination structural assemblage characterized on the one hand by an improved bottle neck construction; and having reference on the other hand, to an especially designed hood-type closing cap therefor.

Visualizing with greater particularity the bottle neck structure alluded to in the introductory statement, it will be observed that one object of the invention is to provide an improved milk bottle having a smooth internal pouring surface provided in the neck thereof, and having external features embodying a ledge forming bead cooperating with a relatively smaller annular rib constituting a cap adapter and retention lip.

A further feature of the invention is the composition hood-cap characterized by a disk-like body portion and an annular attaching rim wherein said rim is provided with an annular flange terminating in a binding or clamping flap susceptible of being clenched between the rim and flange, said flange being constructed to provide an accommodation channel for a stabilizing and retaining ring.

Other features and advantages may become more readily apparent from the following description and drawing.

In the drawing, wherein like numerals are employed to designate like parts throughout the views:—

Figure 1 is a sectional view showing the bottle neck construction and associated especially designated cap fitted thereover in bottle-closing position.

Figure 2 is a bottom plan view of the cap per se.

Figure 3 is a section on the line 3—3 of Figure 2.

Figure 4 is an exaggerated or magnified view showing a fragmentary portion of the laminated construction.

Figure 5 is a detail view of the radially expandible and contractable split metal retaining ring.

As shown in Figure 1 the milk bottle is denoted by the numeral 5 and is characterized by a smooth liquid-pouring neck 7 having outstanding cap accommodation features. The main outstanding annular bead 8 is spaced down from the mouth of the neck and in effect provides a ledge for the hood-type cap 9. Disposed around the mouth and spaced from the shoulder or ledge 8 is a relatively small endless or annular bead 10 forming a lip and in effect defining a channel between itself and the ledge 8. In other words, these spaced apart beads 8 and 10 provide the desired retention means, channel, ledge and lip.

The hood-cap is of the so-called waxed card-

board or paper group and is of the laminated construction shown in Figure 4. That is to say, it includes a flexible body portion 11 and inner and outer coatings or film of wax or paraffin as indicated at 12. The cap is characterized by a disk-like lid or cover portion and a depending skirt or rim 13, the latter feature being properly expandible and contractible and of annular form so as to fit down over the lip 10 so that it can rest on the bead or ledge 8. The seating portion of the rim is formed into an inturned fold or bend as indicated at 14 and beyond the bend it is fashioned into an annular binding and clamping flange 15. The flange terminates in a down-bent clinching flap 16 which when in clamped position as shown in Figure 1 is located between the rim 13 and the flange 15. The bend 14 cooperating with the features 13 and 15 defines a channel to accommodate the resilient split retaining ring 17. This is of such a diameter as to permit it to snap into the channel formed between the beads 8 and 10.

It is evident that by slipping the multiple featured rim of the hood-like cap 9 down over the neck of the bottle, the mouth of the bottle is covered by the disk portion while the rim is clinched into the channel formed between the lip 10 and ledge 8. The triple thickness of material provided by the features 13, 15 and 16 permits a firm clamping action to be obtained and provides a rolled edge at the point 14, all of which features in conjunction with the ring 17 offer their contributory or proportionate share in affording an effective binding and clamping action. It follows, therefore, that I have evolved and produced a simple and economical aptly fitted bottle neck and cap construction. A cap of this type is easily applied at the time of charging the bottle with milk at the dairy. It is readily retained in place during transit and thereafter easily removed and replaced by the housewife. Obviously, therefore, I have perfected an ingenious assembly which, it is believed, adequately fulfills the requirements of a structure of this classification.

It is thought that the description taken in connection with the drawing will enable a clear understanding of the invention to be had. Therefore, a more lengthy description is thought unnecessary.

While the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

What is claimed is:—

1. In a structural assemblage of the class described, a milk bottle including a neck having a smooth internal surfaced portion defining the
5 pouring mouth, said neck being externally formed with an inwardly located, radially outstanding bead constituting a ledge, and being further provided at its outer end with a second outstanding
10 bead, said second-named bead being of a diameter less than the ledge and cooperating with the ledge in defining a keeper channel, a hood cap including a disk-like portion and an annular rim
15 portion, said rim portion being of multiple ply thickness and fashioned for reception in said keeper channel, and being possessed of porous absorbent properties whereby when it is moistened it swells and lodges itself firmly in a clamping position in said keeper channel, and a metal ring located in said rim and of a diameter corre-

sponding to the external diameter of said bead, said ring serving to lodge the swollen rim in the keeper channel.

2. As a new article of manufacture, and as a component part of an assemblage of the class
5 described, a hood cap composed of paraffin coated pulp-board and including a disk-like bottle neck closure, and a marginal annular retaining rim therefor adapted to embrace the external surface
10 of the bottle neck, said rim including an inwardly bent flange terminating below the disk-like closure portion, and said flange terminating in a return bend forming a lip, the rim and said
15 flange constituting a channel and said lip depending into said channel, and a metal ring located in the channel in the manner and for the purposes described.

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