

Aug. 9, 1938.

I. L. WILCOX

2,126,159

CONTAINER

Filed Oct. 8, 1936

2 Sheets-Sheet 1

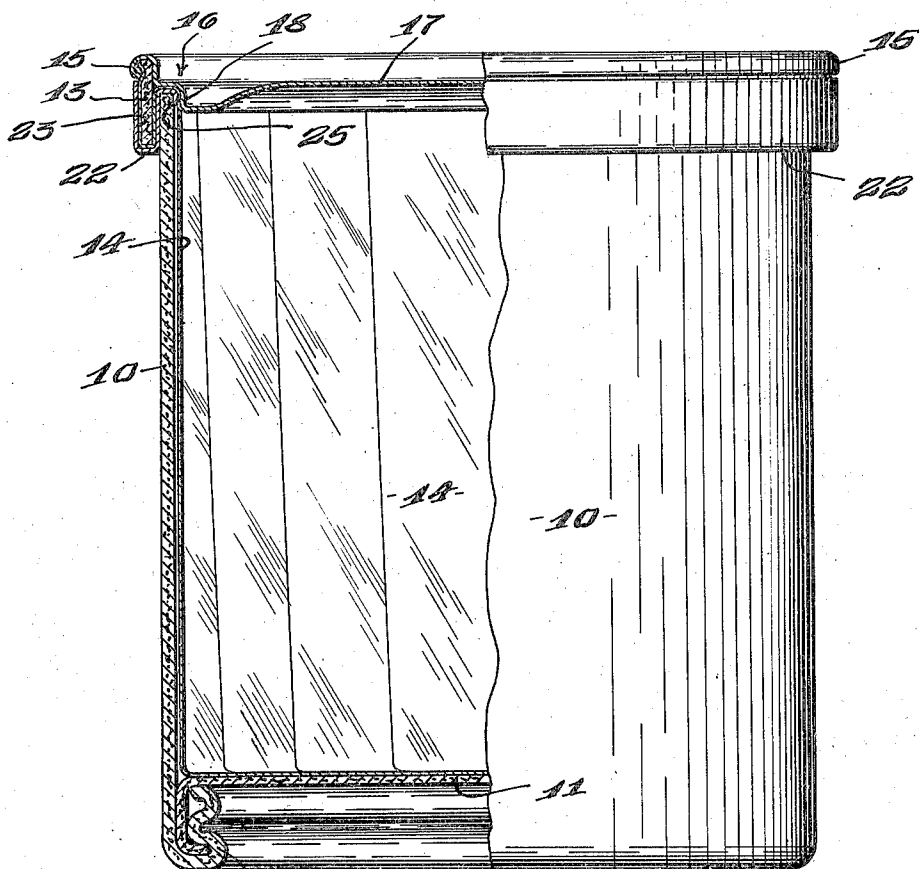


Fig. 1

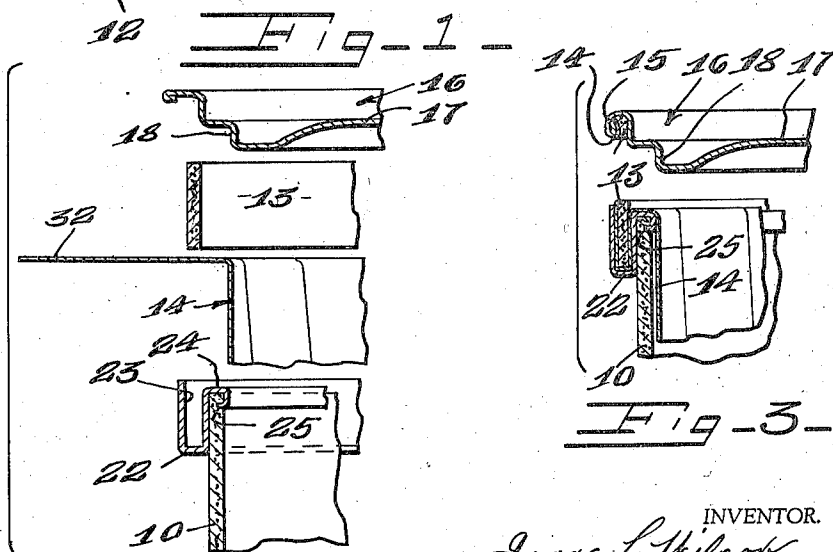


Fig. 2

Fig. 3

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2 Sheets-Sheet 2

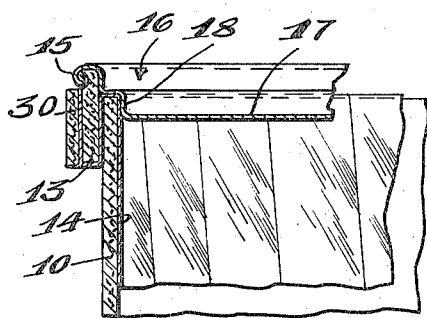


Fig. 4-

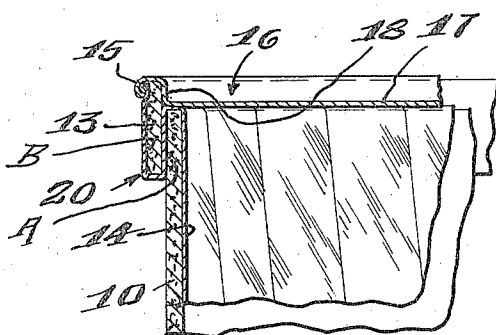


Fig. 6-

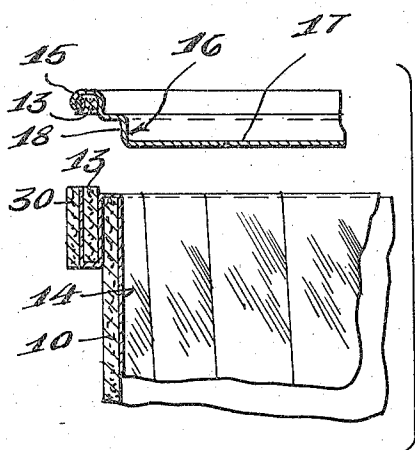


Fig. 5-

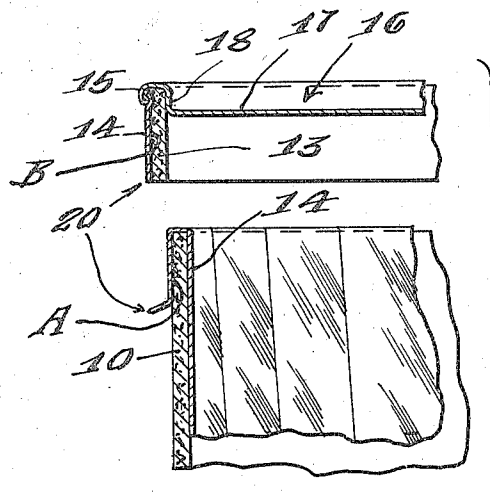


Fig. 7-

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UNITED STATES PATENT OFFICE

2,126,159

CONTAINER

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Application October 8, 1936, Serial No. 104,682

13 Claims. (Cl. 229—14)

This invention relates to containers of the type comprising a fibrous casing formed of paper-board, or like material, and having a bag of thin, flexible material arranged therein to render the container suitable for use with liquid, or semi-liquid, products.

The invention has to do more particularly with the structure of the upper portion of such a container, and the invention has as an object, a container of the type referred to of such structure that the top closure of the container is readily removable by cutting, or severing, the upper end of the casing, and means for maintaining the open end of the bag secured to the upper end of the casing after removal of the top closure.

The invention has as a further object, a container of the type described having a top closure of such structure that it may be readily used as a slip cover after it has been once unsealed and removed from the container.

The invention consists in the novel features and in the combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings in which like characters designate corresponding parts in all the views.

Figure 1 is a side, elevational view, partly in section, of a container embodying my invention.

Figure 2 is a fragmentary, exploded view of the parts making up the top structure of the container.

Figure 3 is a fragmentary, sectional view illustrating the container after the cover has been unsealed and removed therefrom.

Figure 4 is a fragmentary, sectional view of the top portion of a container showing a modified form of my invention.

Figure 5 is a view, similar to Figure 3, showing the closure or cover unsealed from the container.

Figure 6 is a view, similar to Figure 4, of another modified construction.

Figure 7 is a view, similar to Figures 3 and 5, relating to the structure shown in Figure 6.

The invention comprises generally, a cylindrical casing of fibrous material, a ring member of fibrous material encircling the upper end of the casing and extending upwardly beyond the top edge of the casing, a bag of thin, flexible material arranged in the casing with the open end of the bag extending over the top edge of the casing downwardly between the periphery of the top portion of the casing and said ring, and upwardly over the periphery of said ring, and a top closure

secured at its periphery to the upwardly projecting portion of said fibrous ring member and the edge of the open end of the bag.

As here shown, the casing 10 is of conventional circular contour and provided with a bottom closure 11 secured to the lower end of the casing in any suitable manner, as by crimping at 12.

13 designates a ring formed preferably of fibrous material and which encircles the upper portion or end of the casing 10 and is so positioned as to extend upwardly a short distance beyond the upper edge of the casing. A bag 14 of thin, flexible material, such as Cellophane, is inserted in the casing 10, with the open end of the bag extending over the top edge of the casing and being attached to the container and to the ring 13. The open end of the bag extends downwardly between the ring 13 and the periphery of the casing 10, around the bottom edge of the ring, and upwardly over the outer face of the ring with the edge of the bag secured to the ring 13 and sealed to the top closure by a crimp 15 extending around the periphery of the cover or top closure 16. The cover or top closure 16 may be formed with the central discoidal portion 17 depressed, as illustrated in Figures 1 to 5, to form a depending flange 18 slidably fitting the interior of the casing 10, or as illustrated in Figures 6 and 7, the discoidal portion 17 may engage at its periphery with the top edge of the casing 10 and extend flatwise across the top of the container.

In Figures 6 and 7, the open end of the bag is secured to the periphery of the upper portion of the casing by the application of suitable adhesive as at A, Figure 7, and to the periphery of the ring 13, as at B. The bag 14 is thus secured to the upper end of the casing and to the ring 13 in such manner that by cutting or severing the bag at the lower outer edge of the ring, as at 20, the top closure 16 and the ring 13 may be readily removed from the casing, as illustrated in Figure 7, and thereafter the top closure and ring may be used as a removable slip cover for the container after the same has been unsealed. Also, the ring and bag are attached to the casing 10 so that the container may be shipped in condition ready to receive the contents, and the cover 16 conveniently crimped to the upwardly extending portion of the ring 13.

In Figures 6 and 7, the open end of the bag 14 may be cut, or severed, at the lower edge of the ring 13, as at 20, and the top closure 16 together with the ring 13 removed as a unit, as illustrated in Figure 7, to provide access to the contents of

the container. With this particular construction, the cover 16 and ring 13 attached thereto may be replaced on the container. This unit constitutes a removable slip cover for the container after the same has been unsealed.

In Figures 1 to 3, a ring member 22 formed of thin, sheet metal encircles the upper end of the casing 10 and is bent, or folded upon itself, to form a channel 23 opening upwardly. The inner side 24 of the channel member extends over the top edge of the casing 10 and is crimped thereto, as at 25. The channel 23 is of such relative dimensions as to receive the ring member 13 and position it with the top edge of the ring extending upwardly beyond the top edge of the casing 10, see Figure 1. With this construction, the open end of the bag 14 is depressed in the channel 23 and is secured therein by the ring 13 acting as a wedge member. The edge of the bag may likewise extend upwardly beyond the outer side of the ring member 22 and be engaged by the crimp 15 of the top closure 16.

With this construction, the container is conveniently opened by inserting a knife blade between the crimp 15 of the top closure and the outer side of the channel ring 22, whereby the bag and the ring are severed, as indicated in Figure 3. The bag however remains secured at its open end to the top of the casing 10, and the top closure 16 may be used as a removable slip cover after the severance of the bag and ring 13.

In Figures 4 and 5, a second ring 30 encircles the ring 13, and the open end of the bag 14 is arranged after the manner described in connection with Figures 6 and 7, and is secured to the ring 13 by the outer ring 30, and to the casing by adhesive, as at A. With this construction, the bag and ring 13 are attached to the casing, and the container is unsealed by severing the ring 13 in substantially the same manner as in connection with Figures 1 to 3, and the severed top closure is used as a replaceable cover.

The bag 14 is formed and inserted in the casing 10 and attached thereto, and the ring member 13 pressed in place at the container manufacturing plant. In the construction shown in Figures 1 to 3, the top of the casing 10 is provided with the channel member 22, the bag inserted with the open end of the bag extending outwardly across the channel, as at 32. The ring member 13 is then pressed into the channel drawing the open end portion of the bag into the channel. The containers are thus shipped, and after the contents has been inserted in the container, the top closure 16 is applied and its periphery crimped into engagement with the top edge of the ring 13.

In connection with Figures 4 and 5, the bag 14 is inserted in the casing 10 with the open end of the bag extending radially outwardly from the top of the casing, the periphery of which has been previously coated with adhesive. The ring 13 is then pressed downwardly over the open end of the container, pressing and sealing the bag to the casing, and the outer ring 30 is pressed upwardly over the ring 13 and the marginal portion of the bag. The containers are shipped in this condition, and after the contents has been placed therein, the top closure 16 is crimped to the upper edge of the ring 13.

With the structure shown in Figures 6 and 7, the bag is inserted in the container, the ring 13 pressed downwardly pressing the open end of the bag against the periphery of the previously coated casing 10, and the marginal portion of the bag then folded upwardly about the previously coated

periphery of the ring. Where it is desired that the container be gas-tight, the outer edge of the bag is preferably secured under the crimp 15 of the cover. However, where it is not necessary that the container be gas-tight, the periphery of the top closure 16 may be crimped into engagement with the upper edge of the ring 13, and the edge of the bag 14 may terminate just below the crimp.

It will be understood that the embodiment 10 shown may be further modified without departing from the spirit and scope of my invention, the important feature of which is the attachment of the bag and ring to the casing to maintain the bag in the casing during shipment and filling, 15 and the subsequent attachment of the cover to the upwardly extending edge of the ring.

What I claim is:

1. A container comprising a cylindrical casing of fibrous material, a ring member of fibrous material encircling the upper end of the casing and extending upwardly beyond the end of the casing, a bag of thin, flexible material arranged in the casing with the open end of the bag extending over the upper edge of the casing between the outer face of the casing and the inner side of said ring, and upwardly around the periphery of said ring, and a top closure for the container secured at its periphery to said ring.

2. A container comprising a cylindrical casing of fibrous material provided with a bottom closure, a ring member encircling the upper end of the casing and extending upwardly beyond the upper top edge of the casing, a second ring member secured to the upper edge of the casing and encircling said first ring member and being arranged with its top edge in a plane below the top edge of said first ring member, a bag of thin, flexible material arranged in the casing with the open end of the bag secured to one of said ring members, and a top closure for the container secured at its periphery to the extending portion of said first ring member.

3. A container comprising a cylindrical casing of fibrous material, concentrically arranged inner and outer ring members encircling the top portion of the casing, the inner ring member projecting upwardly beyond the top of the casing, the outer ring member being secured to the top of the casing, a bag of thin, flexible material arranged in the casing and being secured at its open end to one of said ring members, and a top closure for the container being secured at its periphery to said first ring member.

4. A container comprising a cylindrical casing formed of fibrous material and being provided with a bottom closure, concentrically arranged ring members encircling the top portion of the casing, with the inner ring member extending upwardly beyond the upper edge of said casing, a bag of thin, flexible material arranged in the casing with the open end of the bag extending over the upper edge of the casing and between said ring members, and a top closure for the container secured at its periphery to the upper edge of said inner ring member.

5. A container comprising a cylindrical casing of fibrous material, inner and outer concentrically arranged ring members encircling the upper portion of the container, said outer ring member extending a short distance beyond the plane of the top edge of said casing, and the inner ring member extending an appreciable distance beyond the top edge of said casing, a bag of thin, flexible material arranged in the

casing with the open end of the bag extending over the top edge of the casing and between said ring members, with the edge of the bag terminating adjacent the top edge of said inner ring member, and a top closure for the container being secured at its periphery to the top edge of said inner ring member and the edge of said bag.

6. A container comprising a cylindrical casing of fibrous material provided with a bottom closure, a ring member encircling the upper end of the casing and being formed with an upwardly facing channel, a bag of thin, flexible material arranged in the casing with the open end of the bag extending in said channel, a wedge member arranged in said channel and being cooperable with the open end of the bag to secure the same in the channel, and extending above the channel, and a top closure for the container secured at its periphery to the extending portion of said wedge member.

7. A container comprising a cylindrical casing of fibrous material provided with a bottom closure, a ring member encircling the upper end of the casing and being formed with an upwardly facing channel, a bag of thin, flexible material arranged in the casing with the open end of the bag extending in said channel, a wedge member of fibrous material arranged in said channel with the open end of the bag extending between the sides of the wedge member and the sides of the channel, the wedge member and bag extending upwardly beyond the upper end of the ring member, and a top closure for the container secured at its periphery to the upwardly extending portions of said wedge member and the bag.

8. A container comprising a cylindrical casing, a ring member encircling the upper end of the casing and being formed with an upwardly facing channel, an annular member of fibrous material arranged in said channel and extending upwardly therefrom, a bag of thin, flexible material arranged in the casing with the open end of the bag being secured to said ring member, a top closure for the container being secured at its periphery to the upwardly extending portion of said annular member, whereby the top closure is removable from the container by severing said annular member.

9. A container comprising a cylindrical casing, a channel member encircling the upper end of the casing and being secured thereto, a ring of fibrous material located in said channel and extending upwardly therefrom, a bag of thin, flexible material arranged in the casing with the open end of the bag being secured to said channel member, and a top closure for the container being secured at its periphery to the upwardly extending portion of said fibre ring and being

formed with a depending portion extending in the top of the casing.

10. A container comprising a fibrous casing, a channel member encircling the upper end of the casing and being secured thereto, a ring of fibrous material secured in said channel member and extending upwardly therefrom, a top closure for the container having a portion depending in the same and being secured at its periphery to the upwardly extending portion of said ring, whereby the top closure may be removed from the container upon severance of said ring, a bag of thin, flexible material arranged in the container and said channel member cooperating with the open end of the bag to secure the same to the upper end of the casing after severance of said ring.

11. A container comprising a cylindrical casing formed of fibrous material and being provided with a bottom closure, a ring member of fibrous material encircling the upper end of the casing and extending upwardly beyond the end of the casing, a bag of thin, flexible material arranged in the casing with the open end of the bag extending over the upper edge of the casing and downwardly between the periphery of the casing and said ring, and being sealed to the periphery of the casing and the outer surface of said ring by suitable adhesive, and a top closure for the container secured at its periphery to the extending edge of said ring.

12. A container comprising a cylindrical casing, a ring member of fibrous material encircling the upper end of the casing and extending upwardly beyond the end of the casing, a bag of thin, flexible material arranged in the casing with the open end of the bag extending over the upper edge of the casing and downwardly between the casing and said ring, and upwardly over the face of said ring, said bag being secured to the periphery of the casing by suitable adhesive, a second ring member arranged concentrically of said first ring member and encircling the marginal portion of said bag, and a top closure for the container secured at its periphery to the extending portion of said first ring member.

13. A container comprising a cylindrical casing of fibrous material, a ring member of fibrous material encircling the upper end of said casing and extending upwardly beyond the top edge of the same, a bag of thin, flexible material arranged in the casing with the open end of the bag extending over the upper edge of the casing and engaging the lower portion of said ring member, means for securing the open end of the bag to said ring member and securing said ring member to the top of the casing, and a closure for the container secured at its periphery to the extending top edge of said ring member.

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