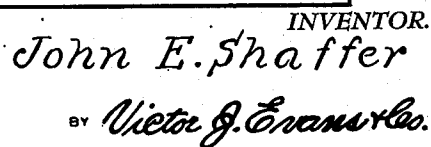


J. E. SHAFFER
SLIDING BOX COVER

Filed July 10, 1950

2 Sheets-Sheet 1



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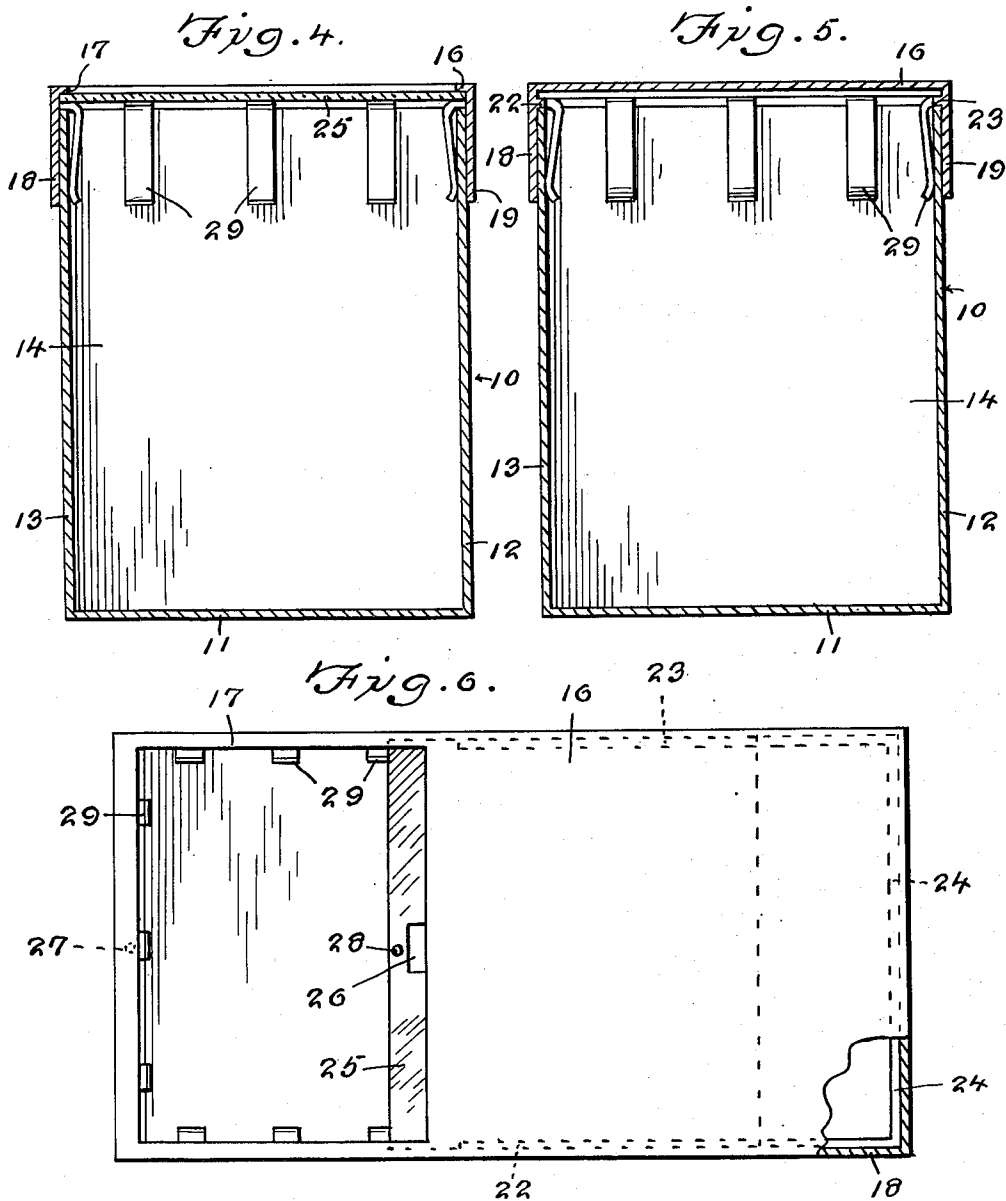
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2,663,457

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2 Sheets-Sheet 2



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SLIDING BOX COVER

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2 Claims. (Cl. 220-41)

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This invention relates to a closure member or cover for receptacles or boxes, such as boxes containing flour, cereal, soap powder, or other materials.

The object of the invention is to provide a closure member which is adapted to be placed over the top of an open carton so that the contents of the carton will be sealed against contamination, the closure member including a lid that can be moved in order to permit the contents of the carton to be readily dispensed.

Another object of the invention is to provide a closure member for boxes or cartons containing such things as flour, soap powder, or other materials, the closure member including a transparent window or lid which permits the user to observe the contents of the carton, the closure member serving to prevent moisture, dust, or other foreign material from contaminating the contents of the carton, the closure member also serving to prevent wasting or spilling of the material in the carton.

A further object of the invention is to provide a closure member or box which is extremely simple and inexpensive to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application, and in which like numerals are used to designate like parts throughout the same:

Figure 1 is a top plan view of the closure member of the present invention;

Figure 2 is a sectional view taken on the line 2-2 of Figure 1;

Figure 3 is a view similar to Figure 2, but with the transparent lid or window in open position;

Figure 4 is a sectional view taken on the line 4-4 of Figure 2;

Figure 5 is a sectional view taken on the line 5-5 of Figure 2;

Figure 6 is a top plan view of the closure member, with parts broken away and in section, and showing the lid in open position.

Referring in detail to the drawings, the numeral 10 designates a conventional box or carton or receptacle which may contain flour, cereal, soap powder, or other materials. The present invention is directed to a closure member which is adapted to be positioned or placed over the top of the carton 10 after the cover has been cut off or otherwise removed from the carton. The carton 10 is conventional and includes a bottom wall 11, spaced parallel side walls 12 and 13, and end walls 14 and 15.

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The closure member of the present invention may be fabricated of any suitable material, such as plastic, and the closure member includes a top wall 16 which is provided with a rectangular opening 17 through which the contents of the carton 10 can be discharged, as later described in this application. Depending from the top wall 16 or formed integrally therewith is a pair of spaced parallel, longitudinally extending side flanges 18 and 19, Figure 4, and these side flanges 18 and 19 are adapted to snugly engage the exterior surface of the side walls 12 and 13 of the carton. Also depending from the top wall 16 is a pair of spaced parallel end flanges 20 and 21 which snugly engage the upper exterior portions of the end walls 14 and 15 of the carton 10.

Projecting inwardly from the side flange 18 is a rib 22, there being a similar rib 23 projecting inwardly from the other side flange 19. A rib 24, Figure 2, projects inwardly from the end flange 21, and it will be noted from the drawings that the ribs 22, 23 and 24 are spaced slightly below the top wall 16 and coact with the top wall to define a trackway. Slidably mounted in the trackway, defined by the ribs and top wall 16, is a window or lid 25 which is fabricated of a suitable transparent material, such as a transparent plastic. The lid 25 is mounted for movement into and out of closing relation with respect to the opening 17. When the lid 25 is in its closed position, as shown in Figure 2, the user can readily observe the amount of material in the carton 10, since the lid 25 is transparent. When the contents of the carton are to be dispensed or discharged through the opening 17, the lid 25 can be slid back to the position shown in Figures 3 and 6, whereby the contents can be readily disposed through the opening 17 by tilting the carton 10.

For manually sliding or moving the lid 25, the finger catch or cutout 26 is provided in the lid. Also, a means is provided for maintaining the lid 25 in its closed position, so that accidental opening of the lid is prevented. This means includes a small socket 27 which is arranged in the under surface of the top wall 16, Figure 3, and the socket 27 is adapted to frictionally receive therein a protuberance 28 which is arranged on the lid 25. Thus, when the lid 25 is in its closed position, as shown in Figure 2, the protuberance 28 is seated in the socket 27, but by exerting a slight pressure on the lid 25 by means of the finger-engaging cutout 26, the protuberance 28 can be readily worked loose from the socket 27.

The closure member of the present invention 55 further includes a plurality of spaced spring

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fingers or prongs 29 which are adapted to engage the side and end walls of the carton 10 so as to maintain the closure member immobile on the carton after it has been placed thereon.

In use, the top is cut or torn off of the carton or receptacle 10. Then the closure member of the present invention is placed over the carton 10. With the closure member in position over or on the carton 10, it will be seen that the spring fingers 29 engage the walls of the carton to maintain the closure member in its proper position on the carton. Also, the side flanges 18 and 19 and end flanges 20 and 21 engage the walls of the carton so that the contents of the carton will be maintained free from dust, moisture or other contamination. Normally, the transparent lid 25 is in the position shown in Figures 1 and 2, so that no contamination can enter the inside of the carton. Also, with the transparent lid 25 in the closed position shown in Figures 1 and 2, the user can readily observe the amount of material in the carton, since the lid is of transparent material. To dispense the contents of the carton, or any portion thereof, the user merely places his finger in engagement with the cutout 26 and then slides the lid 25 from the position shown in Figures 1 and 2 to the position shown in Figures 3 and 6, so that the contents of the carton can be dispensed or emptied through the discharge opening 17 in the top wall 16. When the lid 25 is in its closed position, the socket 27 and protuberance 28 serve to prevent accidental opening of the lid.

The closure member of the present invention is adapted to cover boxes after the tops have been removed. The boxes may contain flour, cereal, soap powder, and the like. The closure member can be made of plastic or any other suitable material. The closure member is constructed so that the user may cut off the original box top and place the closure member of the present invention on the box. The closure member will seal the box tightly, preventing dampness, dust, or other foreign matter from entering the box, thereby providing greater sanitation. Also, the box will be neat and attractive. As the contents of the box are used, the box or carton may be cut down so that the closure member of the present invention can be slipped on again, thus saving space in cupboards.

I claim:

1. A closure member for an open-topped box including side walls and end walls comprising a top wall provided with a discharge opening, a pair of spaced parallel end flanges depending from said top wall for engagement with the exterior surface of the end walls of said box, a pair of spaced parallel side flanges depending from said top wall for engagement with the exterior

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surface of said side walls, a plurality of spring fingers integral with and projecting from said closure member for engagement with the walls of said box, ribs spaced below said top wall and extending from the opening to the end wall of the box remote from the opening and coacting with the top wall and the top of the spring fingers to define a trackway, a transparent lid slidably arranged in said trackway and mounted for movement into and out of engagement with said opening with the said spring fingers serving to engage and support the lid in closed position with relation to the said opening, and coacting means on said top wall and lid for preventing accidental opening of said lid.

2. A closure member for an open-topped box including side walls and end walls comprising a top wall provided with a discharge opening, a pair of spaced parallel end flanges depending from said top wall for engagement with the exterior surface of the end walls of said box, a pair of spaced parallel side flanges depending from said top wall for engagement with the exterior surface of said side walls, a plurality of spring fingers integral with and projecting from said closure member for engagement with the walls of said box, ribs spaced below said top wall and extending from the opening to the end wall of the box remote from the opening and coacting with the top wall and the top of the spring fingers to define a trackway, a transparent lid slidably arranged in said trackway and mounted for movement into and out of engagement with said opening with the said spring fingers serving to engage and support the lid in closed position with relation to the said opening, coacting means on said top wall and lid for preventing accidental opening of said lid, there being a finger-engaging cutout in said lid for moving the latter.

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