

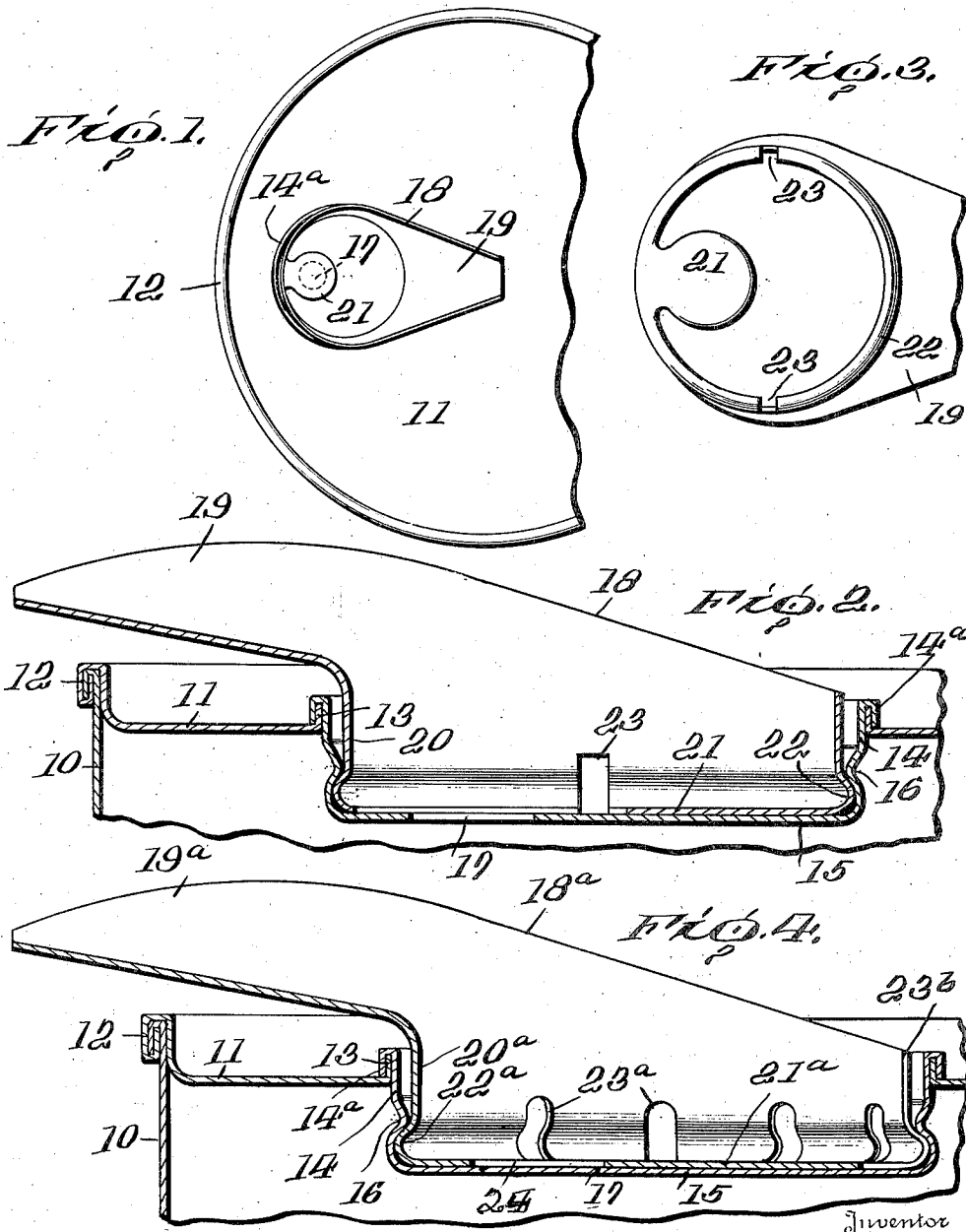
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CONTAINER AND DETACHABLE POURING SPOUT

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CONTAINER AND DETACHABLE POURING SPOUT

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The present invention relates to new and useful improvements in dispensing containers, and more particularly to improvements in a container having a closure and a pouring spout adapted to be attached thereto for dispensing the contents of the container.

An object of the present invention is to provide a container of the above type having a bung closure provided with inwardly directed holding means by which a pouring spout may be rotatably and detachably secured thereto for dispensing the contents of the container.

A further object of the invention is to provide a container of the above type wherein the bung closure is provided with an inwardly extending bead and wherein the pouring spout is provided with means engageable with the bead for rotatably and removably attaching the pouring spout to the closure in order to dispense the contents of the container.

A still further object of the invention is to provide a container of the above type wherein the bung closure is provided with an inwardly extending bead and wherein the pouring spout is provided with resilient means adapted to engage beneath the bead on the bung closure for rotatably and removably attaching the pouring spout to the closure.

The above and other objects of the invention will in part be obvious and will be hereinafter more fully pointed out.

In the accompanying drawing,

Figure 1 is a fragmentary top plan view of a container with one form of pouring spout attached thereto and turned to a closed position.

Figure 2 is an enlarged side view, in section, showing the connection between the container and the pouring spout, with the pouring spout turned to a dispensing position.

Figure 3 is an enlarged fragmentary bottom plan view showing the pouring spout.

Figure 4 is an enlarged side view, in section, similar to Figure 2, but showing a modified form of pouring spout attached to the closure.

Referring more in detail to the accompanying drawing, and particularly to Figures 1, 2 and 3, one form of the invention is shown for purposes of illustration. In this form of the invention there is shown a container having a cylindrical body portion 10 to which a can end 11 is secured by the usual double seam 12. It is to be clearly understood that the body portion of the container may be of any desired configuration. The can end 11 is provided with an upstanding neck

portion 13, extending around the edge of a filling opening therein.

A cup-like or bung closure is provided for the filling opening in the can end, and this closure includes a vertical wall portion 14 and a bottom wall portion 15 which is illustrated as being disposed within the body portion of the container. The vertical wall portion 14 is shaped, as at 14a, to overlie and engage the neck portion 13 on the can end 11. It is to be understood that the closure may be secured to the neck portion 13 in any suitable manner. The vertical depending wall portion 14 on the closure is provided with an inwardly extending bead which is spaced from the bottom wall 15. The inward bead 16 provides a flange for removably attaching a pouring spout in a manner to be hereinafter more fully pointed out. The bottom wall 15 of the closure is provided with a scored portion which may be punched through to provide a dispensing opening 17.

A pouring spout 18 is constructed so that it may be removably and rotatably attached to the closure. The spout 18 is provided with a dispensing portion or pouring lip 19 and with a depending cylindrical wall portion 20. The depending cylindrical wall portion 20 of the spout is provided with a sealing portion 21 for controlling the opening in the bottom wall 15 of the closure. The vertical wall portion 20 of the spout 18 is provided with an outwardly extending peripheral projection 22 which is adapted to fit beneath the inward bead 16 on the closure so as to removably and rotatably attach the pouring spout to the closure. At spaced intervals the vertical wall portion 20 of the spout is provided with slots 23 which open at the bottom edge thereof. These slots 23 provide spaces which permit the projecting portion or bead 22 to contract when the pouring spout is forced inwardly or outwardly of the closure. The depending wall portion 20 of the pouring spout is of a diameter less than the diameter of the vertical wall portion 14 on the closure.

When the container has been filled and the closure seamed thereto, the pouring spout 18 may either be attached directly to the closure, or it may be furnished separately for subsequent attachment thereto when it is desired to open the container by punching the opening 17 so as to dispense the contents thereof. In attaching the spout to the closure, the depending wall portion 20 of the spout is forced inwardly of the closure. The slots 23 on the depending wall portion of the spout permit the projecting portion

22 to be forced inwardly so that it will ride over the inward bead 16 on the closure. The outward projection 22 will then snap beneath the bead 16 so that the pouring spout will be maintained in position on the container and be permitted to rotate relative to the bung closure. When the spout is rotated to the position shown in Figure 1, the sealing portion 21 covers the opening 17 in the bottom wall 15 of the closure. When, however, the spout is rotated to the position shown in Figure 2, the sealing portion 21 is out of register with the opening 17 so that the contents of the container may be dispensed. When the container is empty, the spout 18 can be removed from the closure and used again with another container of the same general type.

In Figure 4 of the accompanying drawing, there is shown a modified form of pouring spout. In this form of the invention the bung closure is secured, as at 14a, to the neck portion 13 on the container end 11. As previously described, the vertical wall portion 14 of the closure is provided with an inward bead 16 which is spaced upwardly from the bottom wall 15. The bottom wall 15 is provided with a scored portion which may be punched through to provide a dispensing opening 17. The pouring spout 18a is provided with a pouring or dispensing lip 19a and with a depending cylindrical wall portion 20a. The pouring spout is also provided with a bottom wall 21a which is provided with a dispensing opening 24. The vertical wall portion 20a of the pouring spout 18a is provided with an outward peripheral projection or bead 22a. At spaced intervals the vertical wall portion 20a of the spout is provided with a plurality of spaced slots 23a which divide the outward bead 22a into a plurality of resilient holding portions. The slots 23a are closed at the top and bottom thereof and extend through the outwardly projecting portion 22a. The wall portion 20a of the spout is also provided with a slot 23b opposite the pouring lip 19a and this slot opens at the top of the wall portion so as to aid in assembling the device.

In attaching the spout 18a to the closure, the vertical wall portion 20a of the spout is forced inwardly of the closure so that the outwardly projecting portions 22a of the spout will engage beneath the bead 16 on the closure for removably and detachably securing the spout to the closure. In one position of the spout, the dispensing opening 24 will be in register with the opening 17 in the bottom wall 15 of the closure so that the contents of the container may be dispensed. In another position of the spout 18a, the dispensing opening 24 in the bottom wall thereof will be out of register with the opening 17 in the closure so that the contents of the

container will be sealed. The slots 23a provide spaces which permit the outwardly projecting portions 22a to spring inwardly so that the spout can be attached to or removed from the closure.

It is to be clearly understood that minor changes in the details of construction and arrangement of parts may be made without departing from the scope of the invention as set forth in the appended claims.

I claim:

1. A container comprising a body portion, a container end secured thereto and having a filling opening, a closure for the filling opening having a depending side wall extending into the filling opening and a bottom wall having a scored portion adapted to provide a dispensing opening, the side wall of said closure having an inward bead spaced above the bottom wall thereof and below the filling opening in the container end, and a pouring spout having a substantially vertical depending wall portion extending within the inward bead on said closure and having at the lower edge thereof an outward bead fitting snugly between the bottom wall of said closure and the inward bead on said closure, the side wall of said pouring spout and the outward bead thereon being provided with spaced slots whereby to effect resilient engagement between the outward bead on said pouring spout and the inward bead on said closure and said pouring spout having a bottom portion adapted to control the dispensing opening in the bottom wall of said closure.

2. A container comprising a body portion, a container end secured thereto and having a filling opening, a closure for the filling opening having a depending side wall extending into the filling opening and a bottom wall having a scored portion adapted to provide a dispensing opening, the side wall of said closure having an inward bead spaced above the bottom wall thereof and below the filling opening in the container end, and a pouring spout having a substantially vertical depending wall portion extending within the inward bead on said closure and having at the lower edge thereof an outward bead fitting snugly between the bottom wall of said closure and the inward bead on said closure, the side wall of said pouring spout and the outward bead thereon being provided with spaced slots open at the lower end thereof whereby to effect resilient engagement between the outward bead on said pouring spout and the inward bead on said closure, said pouring spout having a sealing portion extending inwardly from the outward bead thereon for controlling the dispensing opening in the bottom wall of said closure.

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