

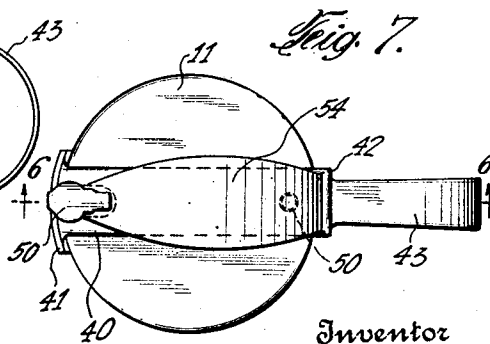
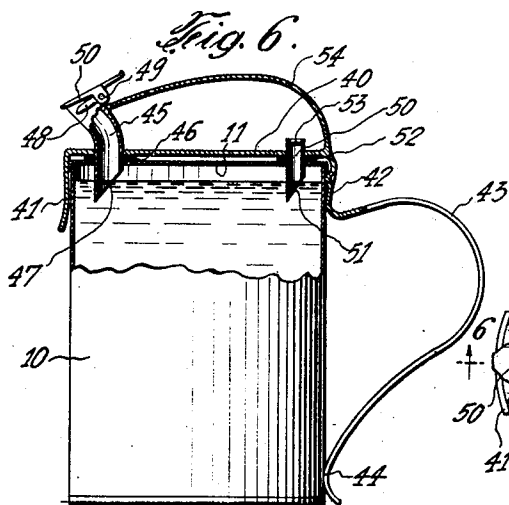
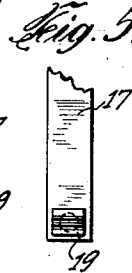
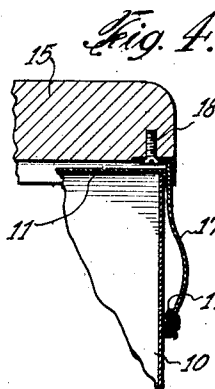
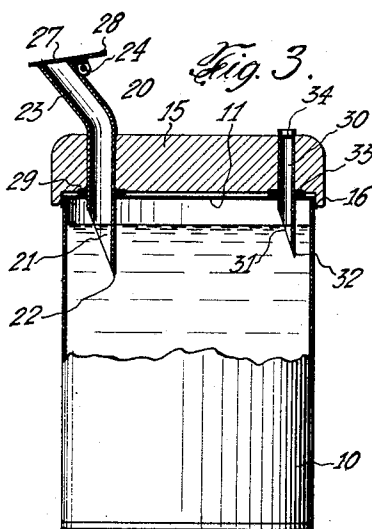
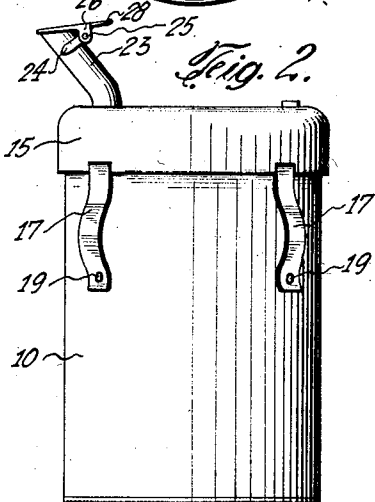
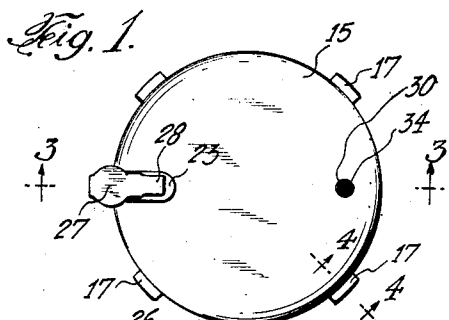
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A. CLAUS ET AL

1,952,840

SANITARY DISPENSING DEVICE

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1,952,840

SANITARY DISPENSING DEVICE

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2 Claims. (Cl. 221—23)

This invention relates to dispensing devices for liquids and semi-liquids from a circular can, such for instance, as is used for holding milk.

One of the objects of the invention is to provide a dispensing device adapted to be applied to the top of a can and by which a portion of the contents may be delivered without danger of particles entering the interior of the can.

A further feature is to provide a dispensing device having elements which cause adherence to the exterior of the can body and which may be further shaped to act as a handle in maneuvering the can.

Another purpose is to produce a dispensing device which may be applied to a can without removal of the cover and which allows the entrance of air as the contents are dispensed.

The several objects are attained by the novel structure and combination of parts hereinafter described and shown in the annexed drawing forming a material part of this disclosure, and in which:—

Figure 1 is a top plan view of the device in a closed position.

Figure 2 is a side elevational view of the same, indicating its application.

Figure 3 is a partial longitudinal sectional view, section being taken on line 3—3 of Figure 1.

Figure 4 is a fragmentary sectional view taken on line 4—4 of Figure 1, and drawn to an enlarged scale.

Figure 5 is a fragmentary view of one of the clamp elements looking from the inner side thereof.

Figure 6 is a partial side elevational, partial sectional view showing a modified form of the device, the section being taken on line 6—6 of Figure 7.

Figure 7 is a top plan view of the device shown in Figure 6.

Throughout the several views, an ordinary commercial cylindrical can is generally indicated by the numeral 10, the same having a cover 11, usually of thin metal and ordinarily removed or punctured in order to obtain the contents of the can.

The device shown in Figures 1 to 5, inclusive, consists of a circular block 15, having a circumferential flange 16, on its lower edge and preferably provided with a series of spring fingers 17 secured to the underside of the block by any convenient means as indicated by the screw 18. These fingers are bowed outwardly to present impinging lower ends which are preferably provided with rubber pads 19 adapted to cling and

adhere to the surface of the can and while four are shown, any other preferred number may be used.

Passing through the cover block 18 is a tube 20, its inner extending end 21 being sheared at an acute angle to present a sharp edge 22 adapted to pierce the thin cover 11, to act as a drain or exit for the contents of the can.

The upper portion of the tube 20 is bent outwardly as at 23, and provided with a partial encircling band 24 firmly secured to the tube and carrying lugs to receive a pivot pin 25 by which is attached, on opposite sides, ears 26 carrying a cover 27 adapted to open and close the upper end of the tube, this cover being provided with a finger pad 28, by which it may be tilted when it is desired to permit an outward flow of the contents of the can.

The lower end of the tube 20 also passes through a packing 29 which normally rests on the cover of the can. In the opposite side of the cover block 15, is a smaller tube 30, having a bevelled end 31 terminating at a point 32 extending below the cover and adapted, upon pressing the cover downwardly, to pierce the can cover 11, to extend therebelow.

The tube 30 passes through a rubber washer 33 resting on the can cover, and the upper end of the tube 30 may be preferably slightly enlarged and receive a screen 34 adapted to prevent the entrance of dirt and the like.

In operation, the block 15, together with the tubes 20 and 30 set rigidly therein, are pressed downwardly on the top of an unopened can until the rubber washers rest upon its surface in which position it is firmly held by the spring fingers 17 and flange 16. When it is desired to obtain a portion of the contents, the operator's finger is placed on the trigger tilting the cover 17 upward and the can inclined sufficiently for its contents to flow out.

The device shown in Figures 6 and 7 is of a similar nature but in place of the block 15 a sheet metal plate 40 is used, the same being provided at one end with a downwardly depending flange 41 and at the other, with a somewhat, smaller flange 42 open outwardly to produce a handle 43 having its terminal member 44 in contact with the exterior of the can near its bottom edge.

Set in the plate 40 is a tube 45 passing through a rubber washer 46 and terminating in an angular end 47 extending inwardly beyond the can cover 11. The upper end of the tube 45 is provided with a bracket 48 carrying a pin 49 by which is hingedly engaged a tiltable cover plate

50 operated in the manner previously described.

In the opposite portion of the plate 40 is an air inlet tube 50 having a bevelled end 51, this tube passing through a rubber washer 52, and provided with a screen or strainer 53 as before described.

Attached to the plate 40, at the junction of the flange 42, is a raised handle-like member 54 having its forwardly extending end secured to the back side of the tube 45, below the hinge pin 49, thereby forming convenient means for manipulating the can and serve to strengthen and support the tube 45.

From the foregoing, it will be seen that either of the devices present an effective means for pouring the contents of the can without the usual difficulty in opening the same; that any preferred quantity may be obtained at one pouring, and that means are provided for the prevention of dirt and the like, from entering the can.

While certain preferred embodiments of this device have been shown and described, it will be understood that changes in the form, arrangements, proportions, sizes and details thereof, may be made without departing from the scope of the invention.

Having thus described the invention, what is

claimed as new and desired to secure by Letters Patent, is:—

1. A dispensing device for cans, comprising a plate having a circumferential flange to loosely engage the top of a can, a plurality of spring fingers fixed on said flange to extend in spaced relation downwardly over the upper portion of the can, gripping pads carried by the lower ends of said fingers to contact the can, a pouring spout fixed in said plate and adapted to pierce the cover of the can, manually operable means for controlling the pouring spout outlet, and means for the inlet of air through said plate and can cover.

2. In a dispensing device for cans, a narrow strap-like plate provided with downturned ends adapted to grip the exterior of the can, a handle on one end of said plate to extend downwardly along-side of the can, a second handle extending over said plate, a pouring spout fixed in said plate and attached to one end of the last named handle, means to control the opening in said pouring spout, and means for the inlet of air to the can.

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