

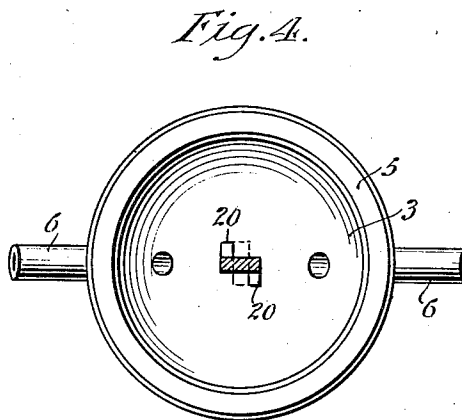
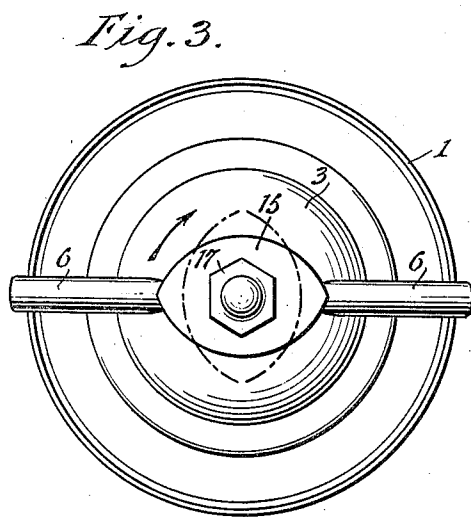
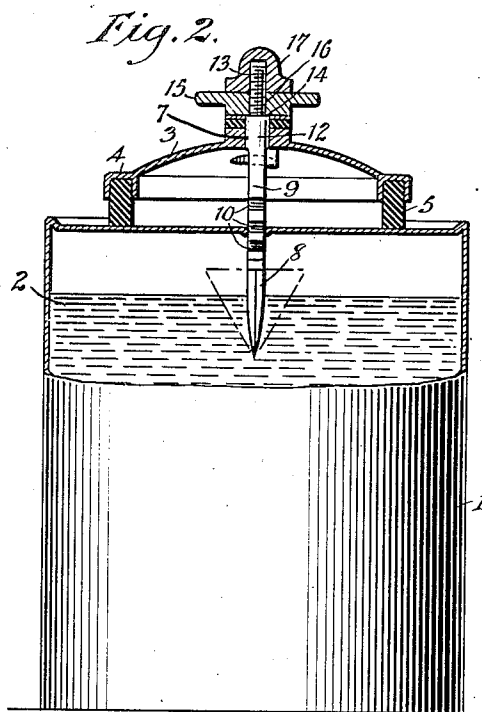
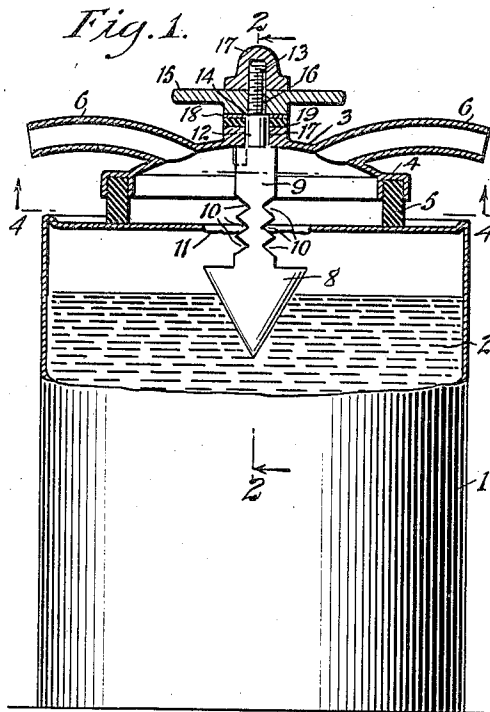
Aug. 12, 1930.

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1,773,019

Pouring Attachment for Containers

Filed Sept. 30, 1929



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POURING ATTACHMENT FOR CONTAINERS

Application filed September 30, 1929. Serial No. 396,361.

This invention relates to pouring attachments for containers, an object of the invention being to provide an attachment of this character which operates to punch an opening in a container, to form a tight juncture with the container and facilitate pouring from the container from either side of the attachment, said pouring being facilitated by the employment of a pair of spouts so that when one spout is utilized for pouring the other spout will admit air to facilitate the flow of the contents of the container.

A further object is to provide an attachment of this character which can be manufactured and sold at a reasonably low price, which can be quickly and conveniently attached to the container and removed therefrom, and which will be strong and durable in use.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, which will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a view showing a container partly in elevation and partly in longitudinal section and illustrating my improved attachment in section in its initial position on the container;

Figure 2 is a view similar to Figure 1 but taken in section on the line 2—2 of Figure 1;

Figure 3 is a top plan view of the container showing my improved attachment thereon;

Figure 4 is a view in transverse section on the line 4—4 of Figure 1.

1 represents a container which may be an ordinary can containing a liquid or semi-liquid 2 which can be poured from the can.

My improved pouring attachment comprises a cap 3 of somewhat dome shape having at its edges an annular groove 4 in which a gasket 5 is located and adapted to engage the end of the container 1.

This cap 3 is provided, preferably at opposite sides, with spouts 6, which may be curved, as shown, or otherwise shaped, as desired, and at the top and center of the cap

an opening 7 is provided for a purpose which will now be explained.

My improved attachment includes the employment of a puncturing plunger 8, preferably of general spear head shape, which is fixed to or may be integral with a flat stem 9, and this flat stem has serrations or notches 10 in its opposite edges to engage the wall of an opening 11 formed in the end of the container 1 when the spear head plunger is forced through the end of the container and given a quarter turn, as will hereinafter appear.

This stem 9 at its upper end is formed with a cylindrical extension 12 which is projected through the opening 7 in cap 3, and has a reduced screw-threaded end 13 and a shoulder 14 formed at the juncture of the cylindrical portion 12 and the reduced screw threaded portion 13.

15 represents a knob or button having a screw threaded opening 16 adapted to engage the threaded portion 13, and a cap nut 17 is screwed onto the upper end of the threaded portion 13 against the knob or button 15. A thin gasket 18 is interposed between the knob or button 15 and the shoulder 14, and a second gasket 19 is interposed between the gasket 18 and the top of the cap 3 so that a perfectly tight juncture of the parts is formed and yet the knob or button 15 may be screwed sufficiently tight so as to make it in effect a rigid part of the plunger assemblage.

This knob or button 15 is preferably elongated and made elliptical, as clearly indicated in Figure 3, or may be otherwise shaped so as to allow it to be readily gripped and turned to turn the plunger 8 to puncture the end of the container either in connecting the attachment to the container or removing the attachment from the container.

In order to limit the turning movement of the stem 9, lugs 20 project downwardly from the cap 3, as clearly indicated in Figure 4, as will be clearly understood.

The operation is as follows:

The plunger 8 is forced through the end of the container 1, providing an opening 11 therein, and the attachment is forced against the end of the container until the gasket 5 is

compressed, when the knob or button 15 is given a quarter turn causing the walls of the opening 11 to be engaged in the ends 10 of the stem 9 so as to securely hold the cap on the container and also leave a free opening for the passage of the contents of the container into the attachment and out of either one of the spouts 6 in accordance with the position in which the container is held. When the contents are poured through one spout 6 the other spout acts as the inlet for air and the flow is thereby facilitated.

After the contents of the can are removed, the attachment can be easily removed by giving it a quarter turn so as to register the head 9 with the opening 11 and drawn out through said opening. It will thus be noted that my improved attachment can be utilized over and over again.

Various changes and alterations might be made in the general form of the parts described without departing from my invention and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. An attachment of the character described, including a cap, a spout on the cap and a gasket carried by the cap and adapted to engage a container, said cap having a central opening therein, an arrow head plunger, a flat stem on said plunger having a cylindrical portion adapted to turn in the opening in the cap, a reduced screw threaded end on said cylindrical portion of the stem, a knob or button screwed on said cylindrical portion, a gasket interposed between said knob and stem, and a shoulder formed at the point of juncture of the screw threaded portion with the said cylindrical portion of the stem, a second gasket interposed between the first mentioned gasket and the cap, and a cap nut on the extremity of said screw threaded portion of the stem and engaging the knob or button.

2. An attachment of the character described, including a cap, a spout on the cap and a gasket carried by the cap and adapted to engage a container, said cap having a central opening therein, an arrow head plunger, a flat stem on said plunger having a cylindrical portion adapted to turn in the opening in the cap, a reduced screw threaded end on said cylindrical portion of the stem, a knob or button screwed on said cylindrical portion, a gasket interposed between said knob and stem, a shoulder formed at the point of juncture of the screw threaded portion with the said cylindrical portion of the stem, a second gasket interposed between the first mentioned gasket and the cap, a cap nut on the extremity of said screw threaded portion of the stem and engaging the knob or button, and devices

on the cap limiting the turning movement of the stem.

Signed at New York, in the county of New York and State of New York, this 27th day of September, 1929.

JOSEPH C. WICKERS.

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