Dec. 15, 1931. A. B. MOWLDS 1,837,057

HOLDING AND SERVING DEVICE FOR CANS, BOTTLES, AND THE LIKE

Filed April 5, 1930 2 Sheets-Sheet 1

Fig. 1.

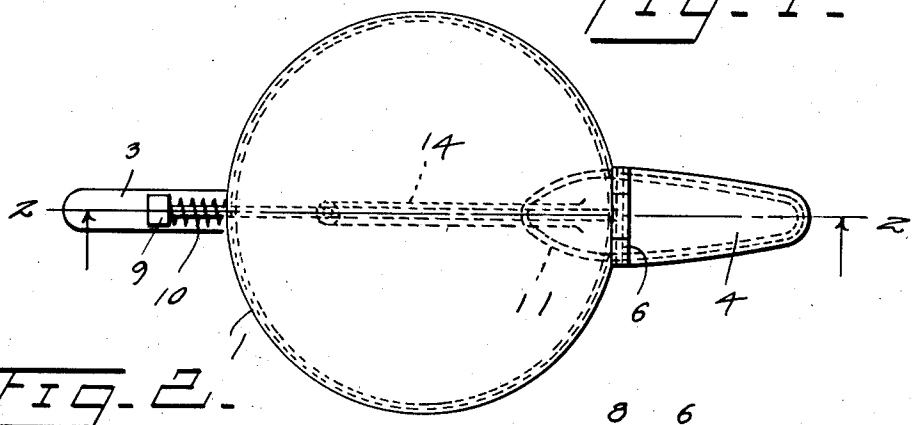


Fig. 2.

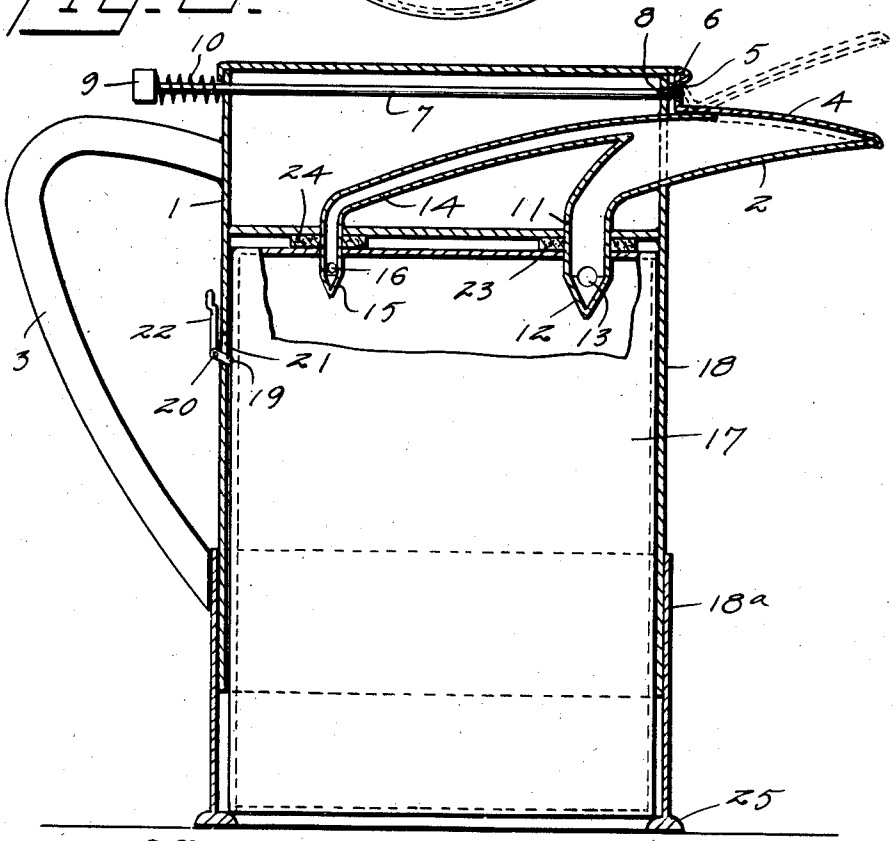
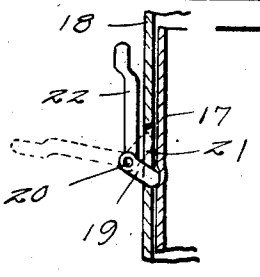


Fig. 3.



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Filed April 5, 1930 2 Sheets-Sheet 2

Fig. 4.

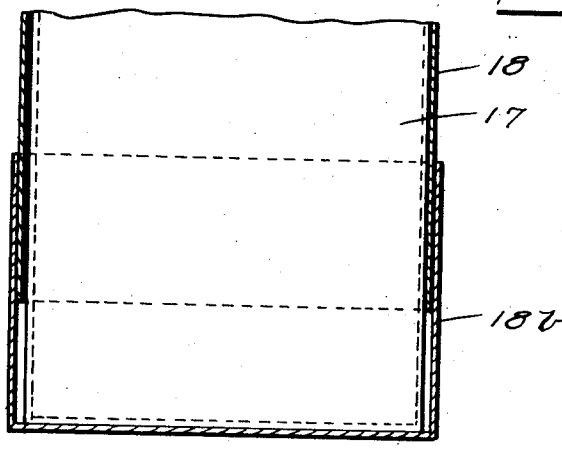


Fig. 5.

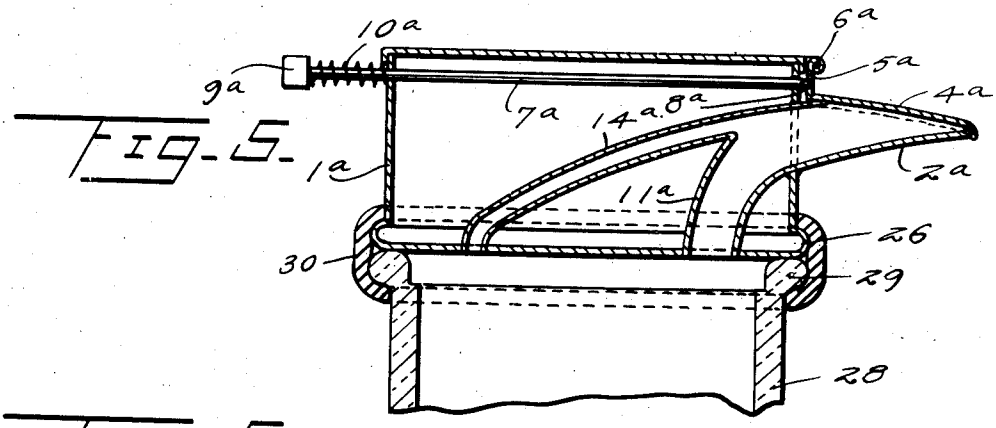
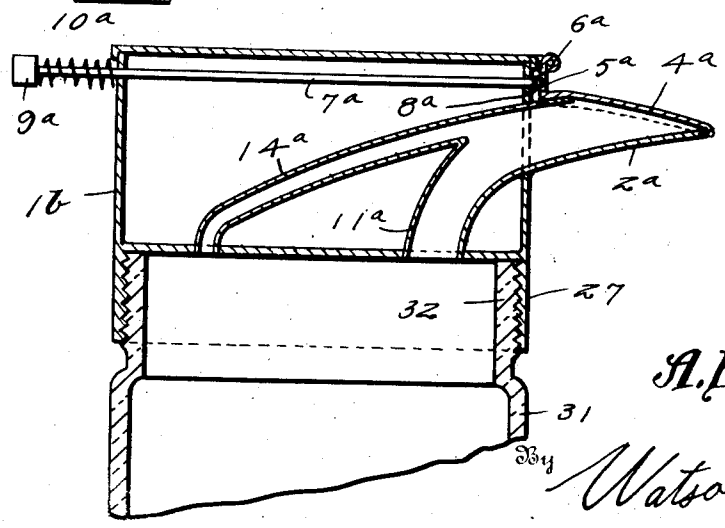


Fig. 6.



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UNITED STATES PATENT OFFICE

ALBERT B. MOWLDS, OF BREMERTON, WASHINGTON, ASSIGNOR OF FORTY-NINE PER CENT TO WILLIAM G. CRAIG, OF BREMERTON, WASHINGTON

HOLDING AND SERVING DEVICE FOR CANS, BOTTLES, AND THE LIKE

Application filed April 5, 1930. Serial No. 442,019.

This invention relates to a device through the medium of which bottles and cans may be conveniently handled during the pouring of the contents thereof and through the medium of which the contents may be protected from air, dust and other foreign matter.

To attain the foregoing and other objects, the nature of which will appear as the description proceeds, the invention comprehends the provision of a device of the character stated which shall embody a cap adapted to be secured to a bottle or can, a handle secured to the cap, a spout secured to the cap and adapted to communicate with the bottle or can, a vent tube communicating with the spout and adapted to communicate with the bottle or can, and a lid for the spout and vent tube.

The invention further comprehends the provision of a device of the character stated which shall embody means adapted to yieldingly hold the lid in closed position and through the medium of which the lid may be opened and supported in opened position by the hand grasping the handle.

The invention further comprehends the provision of a device of the character stated which shall embody means through the medium of which it may be secured to a bottle having a beaded neck, or means through the medium of which it may be secured to a bottle having a screw threaded neck, or to means through the medium of which it may be secured to a can.

The invention still further comprehends the provision of a device of the character stated wherein the spout and vent tube shall be provided with punches adapted to be employed for the purpose of forming openings in a can and establishing communication between the can and the spout and vent tube.

The invention is hereinafter fully described and claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a top plan view of that form of the device adapted for use in connection with cans;

Figure 2 is a sectional view on an enlarged scale taken on the vertical plane indicated by the line 2—2 of Figure 1;

Figure 3 is a detail sectional view illustrating the means by which the device may be secured to a can;

Figure 4 is a sectional view illustrating a slightly modified form of the means for securing the device to a can;

Figure 5 is a sectional view illustrating the application of that form of the device adapted for use in connection with bottles having beaded necks, and

Figure 6 is a sectional view illustrating that form of the device adapted for use in connection with bottles having screw threaded necks.

Referring in detail to the drawings and particularly to Figures 1 to 4, 1 designates the cap, 2 the spout, and 3 the handle of the device for use in connection with cans. The cap 1 is of hollow cylindrical formation and is closed at its upper and lower sides. The spout 2 is secured to and extends outwardly from the lateral side of the cap 1, and the handle 3 is secured to said side of the cap at a point diametrically opposite the spout. A lid 4 is provided for the spout 2, and is provided at its inner end with an upwardly directed extension 5 which is pivotally connected at its upper end, as at 6, to the cap 1. A rod 7 extends diametrically through and is slidably supported by the cap 1 and is pivotally connected at one end, as at 8, to the lid extension 5. The other end of the rod 7 is located adjacent the upper side of the handle 3, and the rod is provided at this end with a button 9 through the medium of which it may be actuated by the thumb of the hand grasping the handle 3. This actuation of the rod 7 results in the opening or raising of the lid 4. A spring 10 arranged upon the rod 7 between the lateral side of the cap 1 and the knob 9, functions to yieldingly hold the lid 4 in closed or lowered position. The lid 4 may be supported in opened or raised position against the tension of the spring 10 by the thumb bearing against the button 9. Upon the release of the button 9, the spring will react and move the lid 4 into and hold it in closed or lowered position.

A tube 11 which communicates with the inner end of the spout 2, extends downwardly

through the bottom wall of the cap 1 and is provided at its lower end with a punch 12, the tube being provided in its sides immediately above the punch with inlet ports 13. A tube 14 which communicates with the inner end of the spout 2 at a point above the communication of the tube 11 with the spout, extends downwardly through the bottom wall of the cap 1 and is provided at its lower end with a punch 15, the tube being provided in its sides and immediately above the punch with discharge ports 16. The cap 1 is adapted to be applied to a can 17, and during the application thereof, the punches 12 and 15 pass downwardly through the can to arrange the inlet ports 13 of the pouring tube 11 and the discharge ports 16 of the vent tube 14 within the can.

The cap 1 is adapted to be supported upon the can 17 by a sleeve 18 which extends downwardly from the cap and embraces the upper portion of the can. The cap 1 is secured to the can 17 so as to permit the latter to be lifted and tilted through the medium of the handle 3, when it is desired to effect the discharge of the contents of the can through the spout 2. The means for securing the cap 1 to the can 17 comprises a dog 19 which is pivoted, as at 20, to the sleeve 18 for movement into and out of engagement with the can. The dog 19 is pivoted to the outer side of the sleeve 18, and during its movement into and out of engagement with the can 17, works through a slot 21 formed in the sleeve. An arm 22, which is fixed to the pivot end of the dog 19, provides means through the medium of which the dog may be moved into and out of engagement with the can 17.

The device, as thus far described, is admirably adapted for use in the kitchen as a receptacle and server for cans containing condensed milk, syrup or the like. The depth of the sleeve 18 is less than the corresponding dimension of the average can containing condensed milk, syrup or the like, and constitutes the receptacle for the can. The openings formed in the top of the can 17 by the punches 12 and 15, and through which the lower ends of the tubes 11 and 14 extend, are sealed by washers 23 and 24 which are mounted upon the tubes between the bottom cap 1 and the top of the can.

The sleeve or receptacle 18 may be provided with a lower section 18^a, as shown in Figure 2, or with a lower section 18^b, as shown in Figure 4 in order to adapt it to completely house and conceal the can from view. The lower receptacle section 18^a is open at its lower end, and is provided at said end thereof with an annular base 25. The lower receptacle section 18^b, which is also of cylindrical formation and embraces and frictionally engages the lower end portion of the upper receptacle 18, is closed at its lower end. Either of the lower receptacle sections 18^a or 18^b may be used, and when used, adds materially to the appearance of the device and thus adapts it for use at the table.

The cap may be made without the receptacle 18 and provided at its lower end with an outer annular shoulder 26, as shown in Figure 5, or with a downwardly extending and internally screw threaded annular flange 27, as shown in Figure 6. The cap shown in Figure 5 is designated 1^a, and is adapted to be used in connection with bottles having beaded necks and used for dispensing cream, milk and the like.

The neck of the bottle is designated 28, and the bead thereof is designated 29. The cap 1^a rests upon the neck 28 of the bottle, and is secured to the bead 29 thereof by an elastic band 30 which surrounds the bead and shoulder 26. The cap shown in Figure 6 is designated 1^b and is adapted to be used in connection with bottles having externally screw threaded necks and used for dispensing syrup and the like, the bottle being designated 31 and its externally screw threaded neck 32. The cap 1^b rests upon the upper end of the neck 32 and is secured thereto by its flange 27. Except for the means by which they are adapted to be secured to bottles, the caps 1^a and 1^b are similar, and each comprises a spout 2^a, a lid 4^a for the spout, a pouring tube 11^a communicating with the spout and adapted to communicate with the bottle, and a vent tube 14^a communicating with the spout and adapted to communicate with the bottle. These parts are similar to the corresponding parts of the cap 1, and the tubes 11^a and 14^a extend through the bottom of the caps 1^a and 1^b to establish communication between them and the shoulders on the application of the caps to the bottles. The lids 4^a are provided with operating rods 7^a similar to the rods 7, and are pivotally connected to the angular inner ends 5^a of the lids, the lid ends 5^a being pivotally connected, as at 6^a, to the caps. The rods 7^a are pivotally connected, as at 8^a, to the lid ends 5^a and pass through and are slidably mounted in the side of the caps 1^a and 1^b. The rods 7^a are provided with thumb buttons 9^a, and springs 10^a mounted upon the rods between the side walls of the caps 1^a and 1^b and the thumb buttons 9^a serve to yieldingly hold the lids 4^a in closed relation to the spouts 2^a.

It should be apparent from the foregoing description, taken in connection with the accompanying drawings, that the caps are adapted to be easily and quickly secured to cans, bottles and the like, that they protect the contents of the cans, bottles or the like, that they provide means through the medium of which the contents of the cans, bottles and the like may be conveniently dispensed or poured. It will be further understood that the vent tubes 14 and 14^a permit the contents of the cans, bottles and the like, to readily

flow through the tubes 11 and 11ª and into spouts 2 and 2ª, and that when the lids 4 and 4ª are in closed position, they not only close the spouts but also close the tubes. It will be still further understood that the caps 1 and 1ª and their means for securing them to cans, bottles and the like, are simple and durable and capable of being maunfactured at a comparatively low cost.

While I have described the principle of the invention, together with the structures which I now consider the preferred embodiments thereof, it is to be understood that the structures shown are merely illustrative and that such changes may be made, when desired, as fall within the scope of the invention as claimed.

I claim:—

1. A serving device for a container comprising a cap, means adapted to secure the cap to the container, a spout carried by the cap, a pouring tube communicating with the spout and adapted to communicate with the container, a vent tube communicating with the spout and adapted to communicate with the container, a pivotally mounted lid for the spout, a rod slidably supported by the cap and pivotally connected to the lid, and a spring bearing against the rod and cap and serving to yieldingly hold the lid in closed position.

2. A serving device for a container, comprising a cap, means adapted to secure the cap to the container, a spout carried by the cap, a pouring tube communicating with the spout and adapted to communicate with the container, a vent tube communicating with the spout and adapted to communicate with the container, a lid for the spout provided at its inner end with an upwardly extending portion pivotally connected to the cap, a rod slidably passing through the cap and pivotally connected at one end to said lid portion and provided at its other end with a thumb knob, and a spring arranged upon the rod between the cap and knob.

3. A serving device for a container having a neck provided at its upper end with a bead, comprising a cap adapted to rest upon the neck and provided with an outer annular shoulder, an elastic member embracing the bead and shoulder and constituting the sole means for securing the cap in place, a spout carried by the cap, a pouring tube communicating with the spout and container, and a vent tube communicating with the spout and container.

In testimony whereof I hereunto affix my signature.

ALBERT B. MOWLDS.