Feb. 9, 1937. I. M. UPPERCU ET AL 2,069,984

CANNED LIQUID DISPENSING MEANS

Filed June 1, 1935

Fig. 1

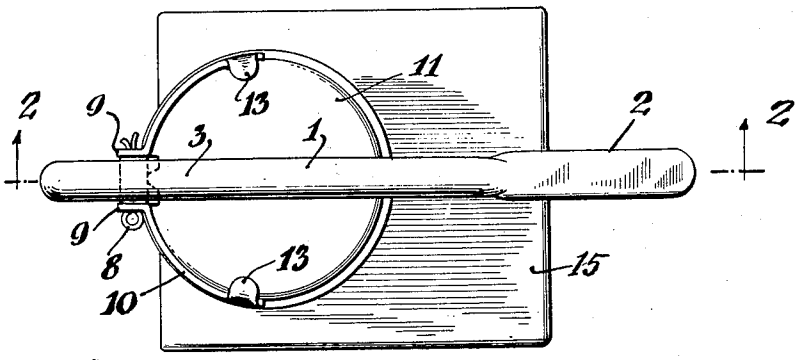


Fig. 2

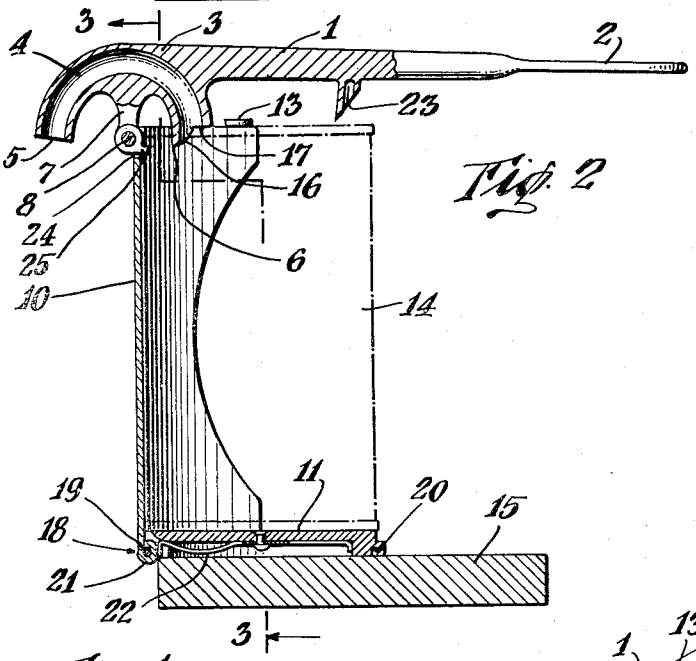


Fig. 3

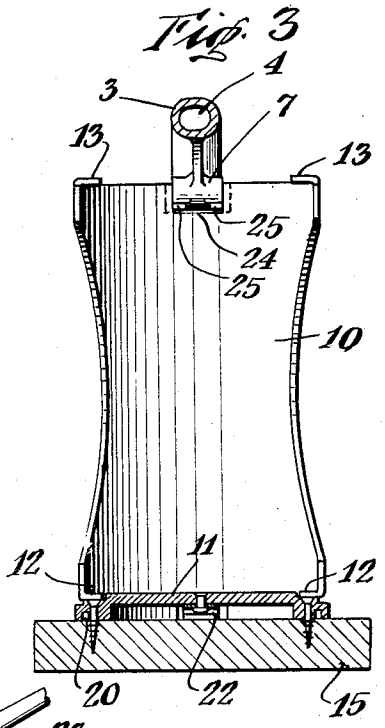


Fig. 4

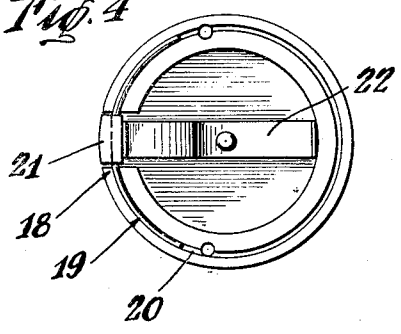
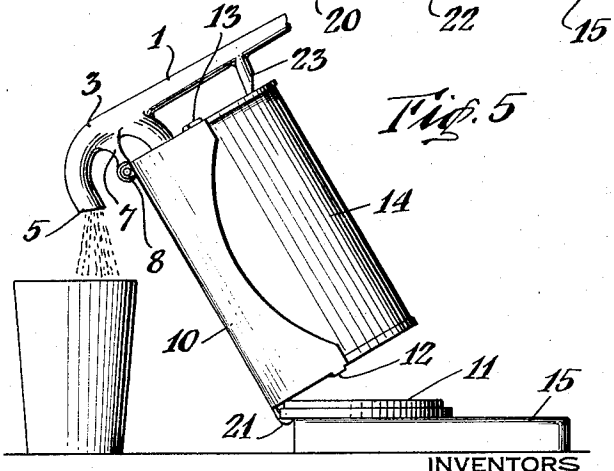


Fig. 5



INVENTORS
Inglis M. Uppercu
BY Francis J. Joyce
Frederick W. Baker
ATTORNEY

Patented Feb. 9, 1937 2,069,984

UNITED STATES PATENT OFFICE

2,069,984

CANNED LIQUID DISPENSING MEANS

Inglis M. Uppercu, Rumson, and Francis J. Joyce, Keyport, N. J.

Application June 1, 1935, Serial No. 24,462

4 Claims. (Cl. 221—23)

This invention relates to dispensing means for charged liquids contained in cans, such for example as cans of beer, and our improvements are directed to a pivotal lever carrying a combined spout and can puncturing device, which latter, while serving to create an aperture in the can to permit liquid to flow through the spout, also serves to seal the puncture to limit pressure flow of liquid through the passage provided by the spout.

Also the lever carries a spur, adapted, when the pressure flow of liquid has ceased, to create a vent in the can that enables the still liquid to be poured out through the spout.

The lever is mounted on a curved plate that is provided with upper and lower can engaging means, said plate being hinged to a suitable mount so that it may be tilted forwardly for dispensing the still liquid from the can.

Other features and advantages of our invention will hereinafter appear.

In the drawing:—

Figure 1 is a top plan view of our improved device for dispensing canned liquid.

Fig. 2 is a vertical section on the line 2—2 of Fig. 1.

Fig. 3 is a section on the line 3—3 of Fig. 2.

Fig. 4 is a worm's eye view of the plate mount, and

Fig. 5 is a side elevation of the device as tilted to pour off the still liquid.

In said views let 1 indicate a lever, having a handle portion 2 at one end and a head portion 3 at its other end. Said head portion is provided with an arcuate, tubular member forming a passageway 4, terminating respectively in the spout or delivery end 5 and the cutting edge 6, said passageway having the form of an inverted U. Depending from said tubular member is a boss 7 which provides a bearing for a pivot 8 that engages lugs 9 formed on a curved shield or plate 10 that is supported on a mount 11.

It will be noted that the delivery spout and cutting edge of the arcuate member are located respectively at opposite sides of the plate 10.

The plate 10 is provided with lower lugs 12 and upper lugs 13, which are intended to localize a can placed between said lugs and against the inner surface of plate 10. Such can, here indicated at 14, may be a can of beer or other charged liquid. Obviously the lower lugs may be adjustable as to their height (though not so illustrated herein) to enable cans of varying heights to be accommodated.

The mount 11 is here shown as secured upon a board or table 15.

The purpose of our improved delivery device is two-fold, viz: in the first place for the discharge of a liquid that is under pressure in the can; and, secondly, for the further delivery of the still liquid when the gaseous pressure has been relieved.

Thus the cutting edge 6, it will be noted, is at the forward portion of the entrance to passageway 4, this cutting edge continuing into the rearward shoulders 16, which complete a semi-circular opening through the can top, and allow the rear perimeter or step portion 17 of the entrance to the passageway to close down on the uncut portion of the can top to seal the opening outside said entrance and thus to limit the pressure flow of liquid from the can through the passageway 4, whence it may be delivered to a vessel held beneath the spout 5.

After pressure has been relieved in the can and still liquid only remains, then a vent may be formed in the can to permit the still liquid to be poured off by tilting the can forwardly.

For tilting purposes the plate 10 is pivoted to the mount 11, as by means of a pivot 18, here shown in the form of a piece of curved spring wire 19 lodged in an annular groove 20 formed in the under surface of the mount, and a bearing 21, at the bottom of plate 10, with which said pivot is engaged. Also a spring 22, secured to mount 11, coacts with said bearing 21 to return plate 10 to its upright position when released from a tilted position.

The vent forming means consists of a spur 23, which may be tubular, with a tapered cutting edge, and is carried by the lever, said spur being positioned, vertically, with respect to cutting edge 6, so that it will not puncture the can until after said cutting edge 6 has penetrated the can top and the portion 17 has sealed the pressure opening. Then, a further depression of lever 1 is necessary to pierce the can with spur 23 and thus create the vent whereby the still liquid may be poured out.

The lugs 9 flank a slot 24 cut in the upper end of plate 10, and the boss 7 carries a projection 25 which coacts with the base of said slot and forms a stop to limit the inward swing of the arcuate member, thus preventing the edge 6 from being dulled by striking against the plate 10.

Variations within the spirit and scope of our invention are equally comprehended by the foregoing disclosure.

We claim:—

1. Delivery means for canned liquid compris-

ing a mount, a can support hinged to said mount, for tilting purposes, a lever pivoted to said support, a vent creating spur carried by said lever, and an arcuate tubular member carried by said lever, said tubular member having a delivery end and a can top puncturing end.

2. The subject matter of claim 2 characterized by the provision of spring means to hold the can support normally upright.

3. Delivery means for canned liquids comprising a mount, a vertically disposed can supporting plate hinged to said mount for tilting purposes, a lever pivoted to said support, an arcuate tubular member having respective delivery and can top puncturing ends that depend at opposite sides of said support, the puncturing end having a cutting edge, and stop means in fixed relation with said lever adapted to coact with said support to prevent said cutting edge from striking said support.

4. Delivery means for canned liquid under pressure comprising a mount, a can support hingedly borne by said mount to permit tilting of said support, a lever pivoted to said support, and an arcuate tubular member carried by said lever, said tubular member having a delivery end and a can top puncturing end.

INGLIS M. UPPERCU.
FRANCIS J. JOYCE.