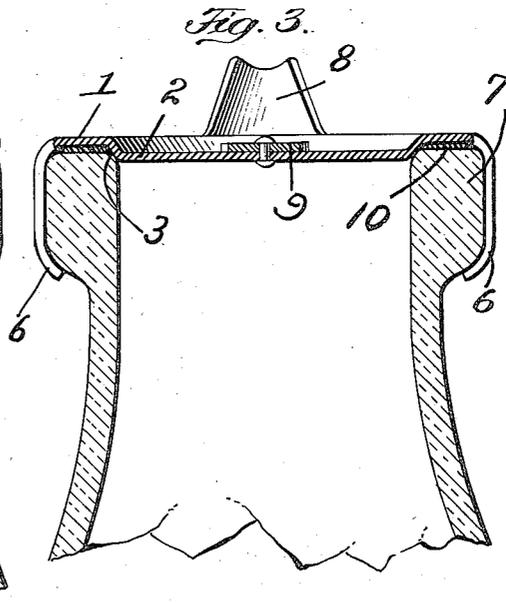
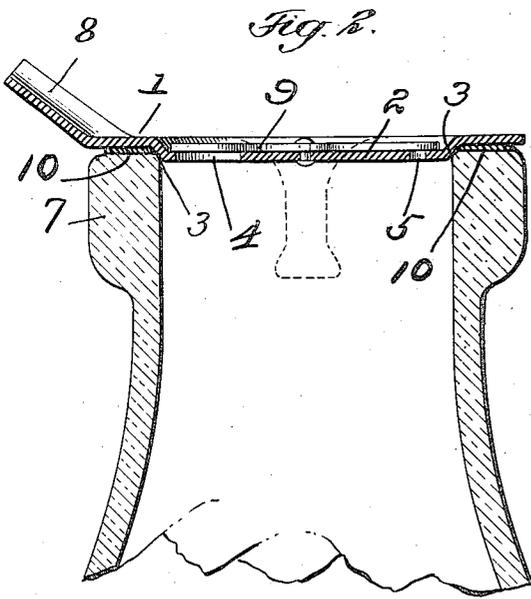
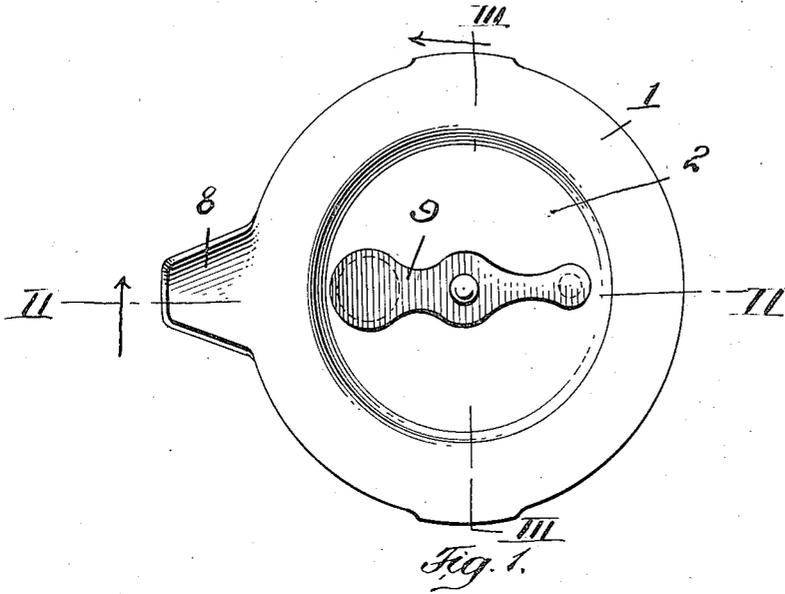


C. W. MOLFENTER.
 CAP FOR MILK BOTTLES.
 APPLICATION FILED MAR. 31, 1910.

981,457.

Patented Jan. 10, 1911.



WITNESSES:
Julius King
L. S. Mayer

INVENTOR
Charles W. Molfenter
 BY
Criswell & Criswell
 ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES W. MOLFENTER, OF NEW YORK, N. Y.

CAP FOR MILK-BOTTLES.

981,457.

Specification of Letters Patent. Patented Jan. 10, 1911.

Application filed March 31, 1910. Serial No. 552,595.

To all whom it may concern:

Be it known that I, CHARLES W. MOLFENTER, a citizen of the United States, residing at 15 Audubon avenue, borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Caps for Milk-Bottles, of which the following is a specification.

The object of the invention is to provide a very simple device which may be readily attached to and detached from bottles, or similar receptacles to normally close and seal the bottle, but being provided with a valve device which may be opened to permit the contents of the bottle to be readily poured therefrom.

Another object of the invention is to provide a bottle cap which may be clipped over the top of a milk bottle and to provide said cap with a pouring opening, and a venting opening, a double armed valve being centrally pivoted to the cap and adapted to cover both of said openings.

Another object of the invention is to provide the cap with a pouring lip or spout by means of which the contents of the bottle may be properly and easily directed into a receiving receptacle.

In the drawings; Figure 1 is a plan view of the cap; Fig. 2 a vertical sectional view thereof on the line II—II of Fig. 1; and Fig. 3 a similar view on the line III—III of Fig. 1.

Referring to the various parts by numerals, 1 designates the main body of the cap, the central portion 2 thereof being depressed to form an annular shoulder 3 adapted to seat against the inner edge of the bottle opening; the main body of the cap resting on the upper edge of the bottle. The depressed portion of the cap is provided at diametrically opposite points with openings 4 and 5, opening 4 being the larger and serving as an exit for the contents of the bottle and consequently the pouring opening. The aperture 5 serves as a venting opening to permit the air to flow into the bottle during the pouring operation. Formed integral with the body of the cap are two spring clip-arms 6 which depend from the cap and are adapted to be sprung over an upper flange 7 of the bottle. These clips serve to hold the cap tightly against the upper edge of the bottle, and to maintain the shoulder 3 seated on the inner edge of the bottle so as to form a liquid-tight joint at that point. The cap

at a point radially in line with the pouring opening is formed with an upwardly and outwardly extending spout or lip 8 adapted to receive the liquid from the aperture 4. 60

Pivoted at the center of the cap on the upper surface thereof is a double armed valve 9 said valve being pivoted at its center and extending radially therefrom in opposite directions one of its ends adapted to close the pouring opening 4 and the other to close the vent 5. It will thus be seen that by swinging the valve away from the pouring opening the milk or other contents of the bottle may be poured from the opening 4 by means of the spout 8 directed into a receiving vessel. When the bottle is in an upright position the valve may be closed to prevent the entrance of air into the bottle and to preserve the milk in good condition free from all contaminating influences. 75

In order to secure a liquid tight joint between the cover and the upper edge of the milk bottle, I insert a suitable packing gasket 10 under the body portion of the cover as shown clearly in Figs. 2 and 3 in the drawing. 80

By means of the spring clip arms the cap may be readily attached to or detached from the bottle either for the purpose of refilling the bottle or for cleaning the device. It is also clear that when one bottle is empty the cap may be readily detached therefrom and attached to a full bottle. 85

This device was designed to take the place of the ordinary temporary bottle caps which are now so largely used. 90

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is: 95

1. A bottle cap comprising a body portion serving as a closure for a bottle, means for detachably connecting said cap to the upper end of a bottle, said body portion being formed with an upwardly and outwardly extending spout and a depressed central portion to form a shoulder adapted to engage the inner edge of the bottle opening, said depressed portion being formed with a pouring opening radially in line with said spout and a venting opening at a point diametrically opposite said pouring opening, and means for closing said venting opening and pouring opening, substantially as and for the purpose described. 100 105

2. A bottle cap comprising a body portion serving as a closure for a bottle, spring clips 110

carried thereby and adapted to secure the
body portion to the top of the bottle, said
body portion being formed with an up-
wardly and outwardly extending spout and
5 a depressed central portion to form a shoul-
der adapted to engage the inner edge of the
bottle opening said depressed portion being
formed with a pouring opening radially in
line with said spout and a venting opening
10 at a point diametrically opposite said pour-

ing opening, a valve pivoted at the center
of the depressed portion and adapted to
close both the venting opening and the pour-
ing opening.

This specification signed and witnessed 15
this 30th day of March A. D. 1910.

CHARLES W. MOLFENTER.

Witnesses:

WILLIBALD STEUDEL,
W. A. TOWNER, Jr.