F. HACHMANN.

BOTTLE CLOSURE.

APPLICATION FILED DEC. 7, 1914.

1,205,091. Patented Nov. 14, 1916.

Fig. 1.

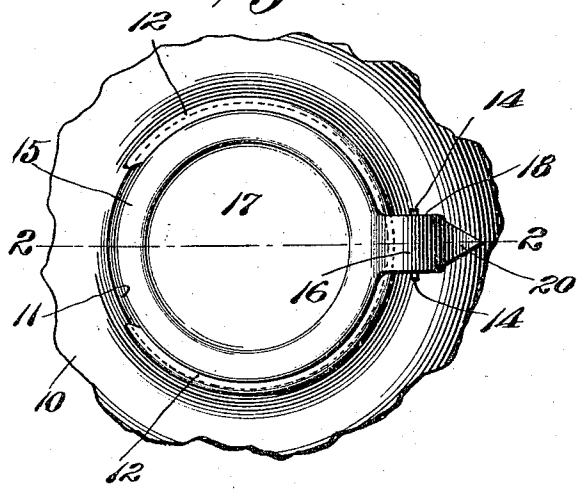


Fig. 4.

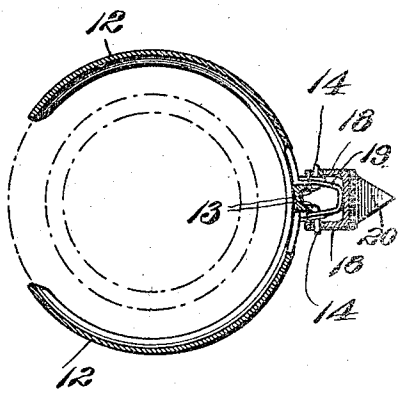


Fig. 2.

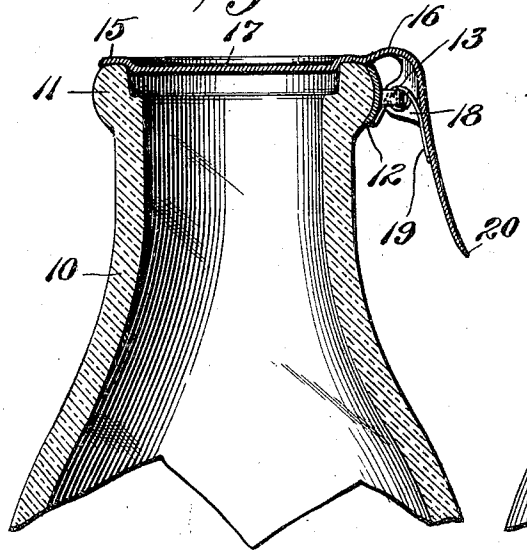
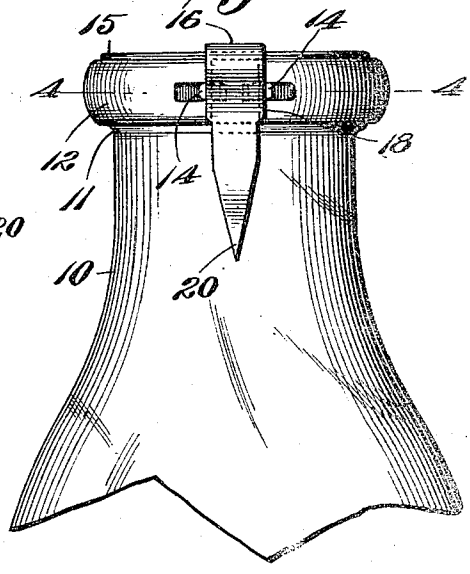


Fig. 3.



Attest:

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UNITED STATES PATENT OFFICE.

FREDERICK HACHMANN, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-FOURTH TO FRED C. SCHOENTHALER, OF ST. LOUIS, MISSOURI.

BOTTLE-CLOSURE.

1,205,091. Specification of Letters Patent. Patented Nov. 14, 1916.

Application filed December 7, 1914. Serial No. 875,939.

To all whom it may concern:

Be it known that I, FREDERICK HACHMANN, a citizen of the United States, and residing at St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Bottle-Closures, of which the following is a specification.

This invention relates to closures, and more particularly, to closures for milk bottles.

One of the objects of this invention is to provide a device of this kind which may be detachably mounted on the neck of a bottle to form a movable sanitary closure therefor.

Another object is to provide a device of this kind which is simple in construction, consists of a few stamped parts, and is cheap to manufacture.

Further objects will appear from the detail description taken in connection with the accompanying drawing, in which:

Figure 1 is a plan of a part of a bottle, showing the closure embodying this invention; Fig. 2 is a section on the line 2—2, Fig. 1; Fig. 3 is an end elevation; and, Fig. 4 is a detail section on the line 4—4, Fig. 3.

Referring to the accompanying drawing, 10 designates the neck of a milk bottle having the usual bead 11 at its mouth. A resilient split ring 12 is formed to embrace the bead 11 on the bottle neck. This ring, being made of steel, is adapted to be sprung on the bead, and is shaped so as to closely conform to the rounded surface of the bead. The center of the ring has stamped from the body thereof a pair of lugs 13, bent laterally to form pintles 14. A cap 15 has formed integral therewith a handle 16, and this cap is depressed, as shown at 17, so as to make a close fit with the mouth of the bottle, as shown in Fig. 2. The handle has formed integral therewith a pair of spaced ears 18, which are apertured to receive the pintles 14. A spring 19 encircles the pintles inside of the ears 18, and bears, at one end, against the handle, and, at its other ends, against the ring 12, so as to hold the cap down on the bottle mouth. The end of the handle 16 extends downwardly along the bottle neck, and is bent outwardly and shaped and pointed at its end, as shown at 20, so as to form an extracting prong.

Milk bottles are usually provided with paper caps or wafers, held in the mouth of the bottle. In using this device, this wafer is removed by inserting the prong 20 therethrough and extracting it. The resilient ring 12 is now slipped over the bead of the bottle, and this ring will snap over the bead and make a firm engagement with the bottle neck. The cap 15 will now be held down on the bottle by its spring 19, so as to tightly close the same. The cap can readily be raised by manipulation of the handle 16.

It will be noted that the edge of the cap 15 is bent down so as to conform to the rounded edge of the bottle mouth, while the depressed part 17 fits the inside ridge. The end of the bottle will, therefore, be covered so as to prevent the accumulation of milk, etc., in the bottle mouth or around the edges thereof.

It will be noted that the device consists of only two stamped pieces, namely, 12 and 15, and these pieces are preferably made of aluminum. The device is, therefore, not only cheap to manufacture, but is devoid of cracks and crevices liable to accumulate dirt. The device is, therefore, entirely sanitary.

It is obvious that various changes may be made in the details of construction without departing from the spirit of this invention, and it is, therefore, to be understood that this invention is not to be limited to the specific construction shown and described.

Having thus described the invention, what is claimed is:

1. A bottle closure comprising a support consisting of a one piece split resilient ring adapted to conform to the bead on a bottle neck and circumferentially embrace and clamp said bead, said ring having radially projecting lugs struck directly from the body portion of said ring and forming pintles, and a cap constructed and arranged to seat directly upon and to be self-centering on the mouth of said bottle and having a downwardly directed handle provided with integral inwardly directed ears formed for engagement with said pintles to pivotally sustain the cap on said support.

2. A bottle closure comprising a support consisting of a one piece split resilient ring adapted to conform to the bead on a bottle neck and circumferentially embrace and clamp said bead, said ring having radially projecting lugs struck directly from the body portion of said ring and forming pin-

tles, a cap constructed and arranged to seat directly upon and to be self-centering on the mouth of said bottle and having a downwardly directed handle provided with integral inwardly directed ears formed for engagement with said pintles to pivotally sustain the cap on said support, and a spring retained by said pintles between said handle and support and operating to hold the cap in closed position.

In testimony whereof I affix my signature in the presence of these two witnesses.

FREDERICK HACHMANN.

Witnesses:

J. H. BRUNNINGER,

FRED C. SCHOENTHALER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."