No. 769,021. PATENTED AUG. 30, 1904.

E. RISSE.

BOTTLE CAP.

APPLICATION FILED JUNE 3, 1904.

NO MODEL.

Fig. I.

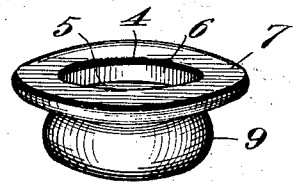
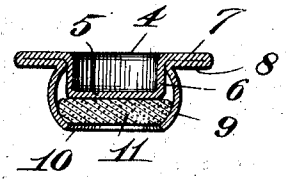


Fig. II.



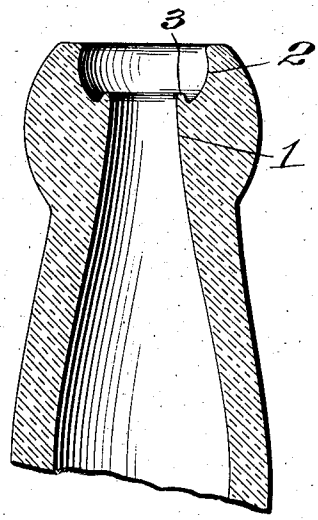
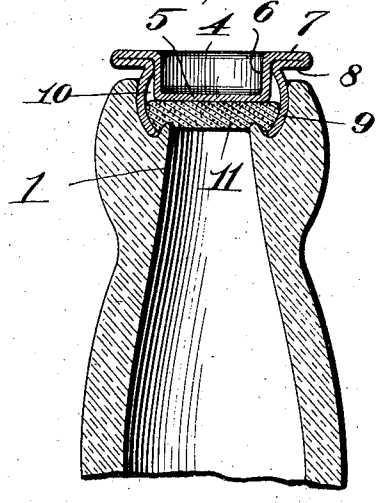


Fig. III.



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No. 769,021. Patented August 30, 1904.

UNITED STATES PATENT OFFICE.

EMILE RISSE, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO JAMES CLAUSEN, OF ST. LOUIS, MISSOURI.

BOTTLE-CAP.

SPECIFICATION forming part of Letters Patent No. 769,021, dated August 30, 1904.

Application filed June 3, 1904. Serial No. 210,947. (No model.)

To all whom it may concern:

Be it known that I, EMILE RISSE, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Bottle-Caps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a cap for closing the mouths of bottles, particularly bottles in which beverages are sold, the object of the invention being to produce a cap of simple, inexpensive, and efficient construction that may be readily introduced into the neck of a bottle and readily removed therefrom, also a cap that may be removed without liability of injury to the rim of the bottle-neck and which may be reapplied to the bottle after it has been separated therefrom.

Figure I is a perspective view of my bottle-cap. Fig. II is a longitudinal section taken through the neck of a bottle to which my cap is applied and the cap shown separated from the bottle-neck. Fig. III is a longitudinal section taken through the neck of a bottle and my cap shown positioned therein.

1 designates a bottle-neck that is provided at its mouth with a socket 2, having a concave wall that terminates at its inner end in an annular rim-seat 3.

My bottle-cap consists, mainly, of a body 4, of thin metal, preferably tin. This body is centrally depressed to form a bottom portion 5, that has integral therewith the circular wall 6, from the top of which extends the annular rim 7. The rim 7 includes an inwardly-extending fold 8, that carries a cylindrical concavo-convex neck 9, within which is a cavity 10, and beneath the bottom portion 5 of the cap is an elastic disk 11, preferably of cork.

When the cap is introduced into the neck of a bottle, the neck 9 of the cap, which is made slightly greater in diameter than the diameter of the socket 2 at the mouth of the bottle-neck, is pressed into said socket against resistance and the elastic disk 11 is compressed. These actions are permitted, due not only to the elasticity of the disk 11, but to the pliability of the cap-neck, owing to the body of the cap being of thin metal. As the cap is forced home into the socket 2 the disk 11 is carried to the rim-seat 3, at the bottom of the socket to thereby create an air and liquid tight joint. It will be understood that as the cap-neck is forced home against its resistance and the elastic disk 11 is slightly compressed the cap-neck will bear constantly with pressure against the wall of the socket 2 in the bottle-neck, and the disk by its elasticity will constantly press the cap-neck outwardly to increase the holding action thereof in the bottle-neck socket.

I claim as my invention—

1. A bottle-cap consisting of a body having a pliable neck and an elastic disk seated within said neck, substantially as set forth.

2. A bottle-cap consisting of a body having a pliable neck convex in longitudinal section, and a disk seated within said cap-neck, substantially as set forth.

3. A bottle-cap having a central depressed portion, a rim provided with a return-fold, and a circular neck extending from said fold, substantially as set forth.

4. A bottle-neck having a central depressed portion, a rim provided with a return-fold, a circular neck extending from said fold; and disk seated within said neck, substantially as set forth.

5. The combination with a bottle having a socket in its neck, of a cap having a pliable neck and an elastic disk seated within said neck, substantially as set forth.

6. The combination with a bottle having a socket in its neck, of a cap having a pliable convex neck to enter said socket, and a disk seated within said cap-neck, substantially as set forth.

7. A bottle-cap having a pliable neck con-

vex in longitudinal section, and a disk fitting within said cap-neck, substantially as set forth.

8. The combination with a bottle provided with a socket in its neck and a rim-seat at the bottom of said socket, of a cap having a neck adapted to enter said socket and a disk within said cap-neck adapted to bear against said rim-seat when the cap is introduced into said bottle-neck, substantially as set forth.

EMILE RISSE.

In presence of—
NELLIE V. ALEXANDER,
M. P. SMITH.