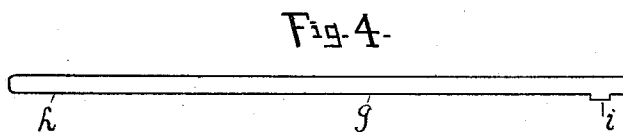
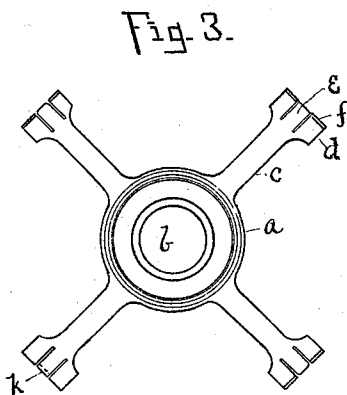
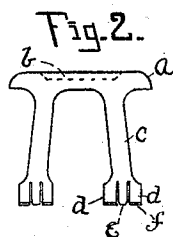
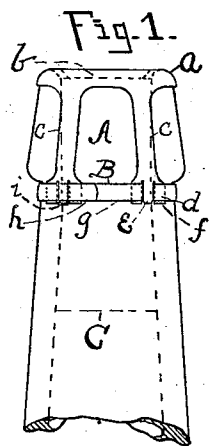


(No Model.)

W. H. NORTHALL.
BOTTLE CAP.

No. 534,658.

Patented Feb. 26, 1895.



Witnesses.

Charles L. Hine.

Alice S. Hells.

Inventor.

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By his attorney,

Albert H. Bates.

UNITED STATES PATENT OFFICE.

WILLIAM H. NORTHALL, OF EVANSVILLE, INDIANA, ASSIGNOR OF TWO-THIRDS TO J. H. POLSDORFER, H. B. POLSDORFER, F. C. POLSDORFER, AND W. H. POLSDORFER, OF SAME PLACE.

BOTTLE-CAP.

SPECIFICATION forming part of Letters Patent No. 534,658, dated February 26, 1895.

Application filed May 25, 1894. Serial No. 512,451. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. NORTHALL, a citizen of the United States, residing in the city of Evansville, county of Vanderburg, and State of Indiana, have invented a new and useful Improvement in Bottle-Caps, of which the following is such a full, clear, and exact description as will enable one skilled in the art to which it appertains to make and use the same.

My invention consists of a cap designed to fit over the top of a bottle and hold the cork in place, and is particularly adapted for use in connection with bottles containing aerated liquids, or liquids charged with gas, where there is a pressure tending to force the cork from the bottle neck.

The object of my invention is to provide a bottle cap which will be at once efficient in service, economical in construction and easily applied and removed.

The best embodiment of my invention at present known to me is that shown in the drawings, in which—

Figure 1 represents my improved cap in position on the neck of a bottle. Fig. 2 represents the cap with the tying band removed. Fig. 3 represents that portion of the cap shown in Fig. 2, with the legs spread out into a plane parallel to that of the top of the cap, for convenience of illustration. Fig. 4 represents the tying-band, used for the purpose of drawing in the legs of the cap against the bottle and holding them in place.

Similar letters of reference designate similar parts in each figure.

The cap is made in two parts, a capping portion which fits over the cork and extends down along the neck of the bottle somewhat farther than the head, A, of said neck, and a tying-band which serves to hold the lower extremities of the capping portion tightly against the neck beneath the shoulder, B, of said head. The capping portion, which can be stamped out of a single piece of metal, consists of the plate, *a*, (shown in the drawings as somewhat dish or recessed at *b*) having a plurality of legs, *c*. These legs are bent down so that the capping portion will snugly embrace the head of the bottle neck. Each leg flares consider-

ably at its foot, and this foot is so cut as to form the central tongue, *e*, and the two pieces, *d*, *d*, adjacent thereto, which for convenience I will call wings. The tongue is raised slightly above the plane of the wings, and the bottom portion of each wing is turned up at substantially right angles to the body thereof, forming the flange *f*. The tying band is a single strip of metal, *g*, of a length somewhat greater than the circumference of the bottle neck at the point where the band acts, and has formed on it near one end a projection or lug, *i*. This tying band is placed in the space between the planes of the wings, *d*, *d*, and the tongue, *e*, in the foot of each leg, and is held in place by the said tongue and wings and by the flanges, *f*, *f*, at the bottom of the wings. The lug, *i*, lies between the flanges of the wings in one of the feet and prevents the tying band from slipping longitudinally through that foot. The tying band passes through each foot and the front end of it comes under the tongue of that foot in which the rear end is held by the lug, *i*, and being drawn in the direction of its length until the legs are all tight against the bottle neck, that portion of the band, *h*, which projects beyond the first tongue is bent back upon itself, thereby holding the cap in place, the stiffness of the material composing the band preventing it from becoming loose.

The drawings show the cap used in connection with a full sized cork, C, but it is obvious that it is also adapted to be used with the thin cork known in this art as a seal. Although I prefer to form a lug, *i*, on the tying band near the end thereof, some of the advantages of my invention can be realized while using other means of securing this band, or while using other bands. The flanges, which I have described as at the bottoms of the wings, might be made at the bottoms of the tongues, (as illustrated at *k* in Fig. 3,) or flanges may be made on both tongues and wings. Other modifications will suggest themselves to one familiar with this art, and I do not wish to be understood as limiting myself to the precise construction shown, further than is definitely pointed out in the claims.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a bottle-neck having a shoulder thereon and bottle cap composed of a capping portion formed of a plate having a plurality of legs projecting therefrom, said legs having their extremities formed with a tongue and wings, the end of said tongue or of said wings being flanged, and a separate band adapted to lie between the planes of said tongues and wings and to hold said legs against the bottle neck, for the purpose specified.

2. In a bottle-cap, a capping portion consisting of a plate having a plurality of legs projecting therefrom, each leg having its foot flaring and divided into a central tongue and two wings, one on each side of said tongue, said tongue and wings extending to the extremity of the leg, the lower ends of said tongue and

wings being disconnected from each other and the lower ends of said wings having flanges thereon, in combination with a tying band, substantially as described.

3. In a bottle cap, a capping portion consisting of a plate *a* having a plurality of legs *c* formed integral therewith, each leg having its lower end flaring and divided into a central tongue *e* and two wings *d d*, each of said wings having the flange *f* at its lower extremity, in combination with a separate tying band formed of a single piece of metal *g* and having the lug *i*, all constructed and arranged substantially as described and for the purpose specified.

WILLIAM H. NORTHALL.

Witnesses:

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A. J. MCCUTCHAN.