

(No Model.)

R. BRASS.
BOTTLE SEALING DEVICE.

No. 552,742.

Patented Jan. 7, 1896.

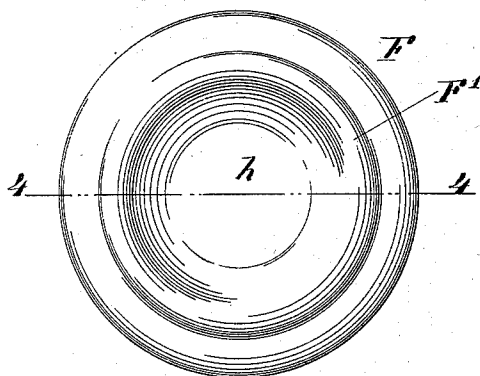
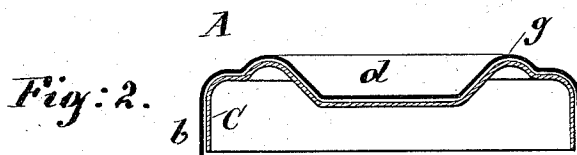
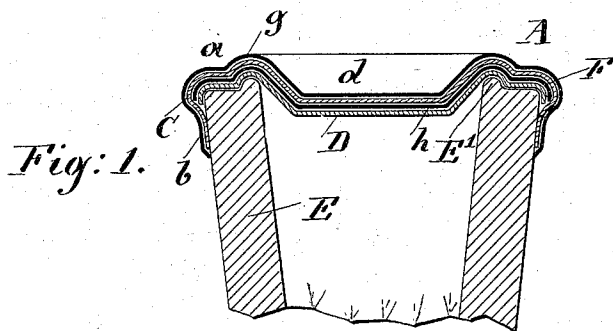


Fig: 3

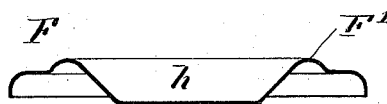


Fig: 4.

Witnesses
D. Petri-Palmieri
M. A. Weinstein

R. Brass Inventor
By his Attorney *Oliver F. Gunn*

UNITED STATES PATENT OFFICE.

ROBERT BRASS, OF BROOKLYN, NEW YORK, ASSIGNOR TO JOHN BOYLE,
OF SAME PLACE.

BOTTLE-SEALING DEVICE.

SPECIFICATION forming part of Letters Patent No. 552,742, dated January 7, 1896.

Application filed May 23, 1895. Serial No. 550,354. (No model.)

To all whom it may concern:

Be it known that I, ROBERT BRASS, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Bottle-Sealing Machines, of which the following is a specification.

This invention relates to certain new and useful improvements in sheet-metal caps for closing and sealing bottles containing beer or other liquids.

The object of my invention is to provide a new and improved cap of this kind, which is simple in construction, can easily be applied and removed, and which seals the bottle effectually and prevents the escape of gases or of the liquid.

The invention consists in the combination, with a bottle, of a fabric disk placed on the top of the head, a plate placed on said disk and a paper-lined flanged cap placed on the filling-plate, the flanges of the cap being applied on the sides of the bottle-neck.

The invention also consists in the construction and combinations of parts and details, as will be fully described and set forth herein-after, and finally pointed out in the claims.

In the accompanying drawings, forming a part of this specification, and in which like letters of reference indicate like parts in all the views, Figure 1 is a vertical transverse sectional view of my improved bottle-sealing cap, applied on a bottle-head, which is also shown in section. Fig. 2 is a vertical transverse sectional view of the cap without the plate and the layer of fabric. Fig. 3 is a top view of the plate. Fig. 4 is a vertical transverse sectional view of the same on the line 4-4 of Fig. 3.

The cap A is struck up from sheet metal, to have a top and a pendent annular flange b, said top having a central circular depression d extending below the top of the flange b, and an annular bead g around the top of said depression and raised slightly above the top of the cap, into which no waterproofing substance or other substance for that purpose has been incorporated or applied thereon.

A heavy paper lining C is placed into and

fastened in the cap and rests closely and snugly against the under side of the top of the cap and against the inside of the flange b, the bottom edge of the said paper lining being slightly above the bottom edge of the flange b, as shown in Figs. 1 and 2.

A disk D of fabric, preferably cotton duck, although other material may be used, is placed on the top edge of the bottle-head E, which top edge has an annular bead E' on its upper surface along the inner edge. A sheet-metal plate F is placed upon the fabric disk D, said plate having a central depression h, coinciding in form and size with the depression in the top of the cap, and also a hollow bead F', and its rim is slightly curved downward and outward to conform to the shape of the bottle-head. The cap A with its lining is then placed on the plate F, and the edges of the flange b with its paper lining are then knurled or spun firmly, closely, and snugly against the side of the bottle-neck, as shown in Fig. 1. By spinning or knurling on said flange, the material of the same is doubled over laterally in minute folds and the lining-paper of the flange is folded with it, thus making an absolutely tight and close joint. Before the flange is spun or knurled on, the head, the fabric disk and plate F are first pressed down firmly by a suitable pressing device and are held by the same in position during the spinning and knurling process. Thereby the cap and its lining are pressed firmly on the plate F, and the latter on the fabric disk D, which latter is pressed on the top of the bottle-head. The fabric disk swells when moistened, and as it is held firmly in place by the plate it forms a close joint. As the depressions in the top of the cap and in the plate pass into the opening of the bottle-head a short distance they prevent any and all lateral displacement and assist in holding the cap and the other parts below the same securely in place.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a bottle, of a fabric disk placed on the top of the neck, a plate resting on said fabric disk, and a flanged pa-

per lined cap placed on said plate and having its flange applied on the sides of the bottle neck, substantially as herein shown and described.

5 2. The combination with a bottle, of a fabric disk placed on the top of the bottle head, a plate placed on the said disk and having a central depression and a paper lined sheet metal cap, placed on the filling disk, said cap
10 also having a central depression, the flanges of the cap being applied on the sides of the bottle neck, substantially as herein shown and described.

15 3. The combination with a bottle, of a fabric disk placed on the top of the bottle head, which head has a bead on its upper surface, a plate placed on the said disk and having a central depression and a hollow bead, and a
20 filling disk, said cap also having a central depression and hollow bead, the flanges of the cap being applied on the sides of the bottle

neck, substantially as herein shown and described.

4. The combination with a flanged sheet 25 metal cap, having a paper lining on the under side of its top and the inside of its flange, and also having a central depression and a hollow annular bead in its top, of a plate fitting against the under side of the cap and 30 having a central depression and annular hollow bead like that in the cap and its rim curved down and a fabric disk below the plate and fitting within the cap, substantially as herein shown and described. 35

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 20th day of May, 1895.

ROBERT BRASS.

Witnesses:

OSCAR F. GUNZ,
N. M. FLANNERY.