

No. 730,812.

PATENTED JUNE 9, 1903.

H. S. BREWINGTON.
BOTTLE SEAL.

APPLICATION FILED JULY 7, 1902.

NO MODEL.

Fig. 1.



Fig. 2.

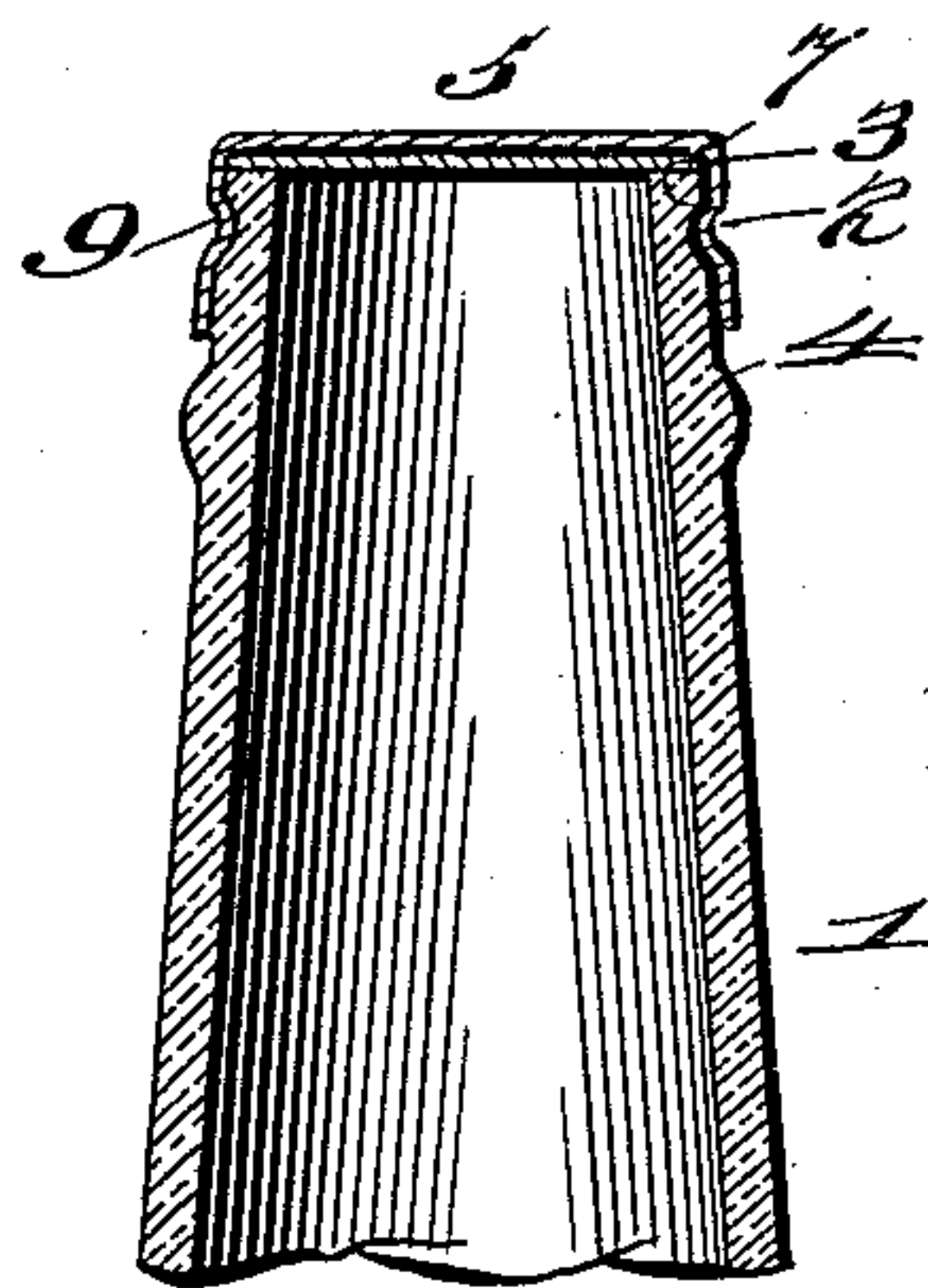


Fig. 3.

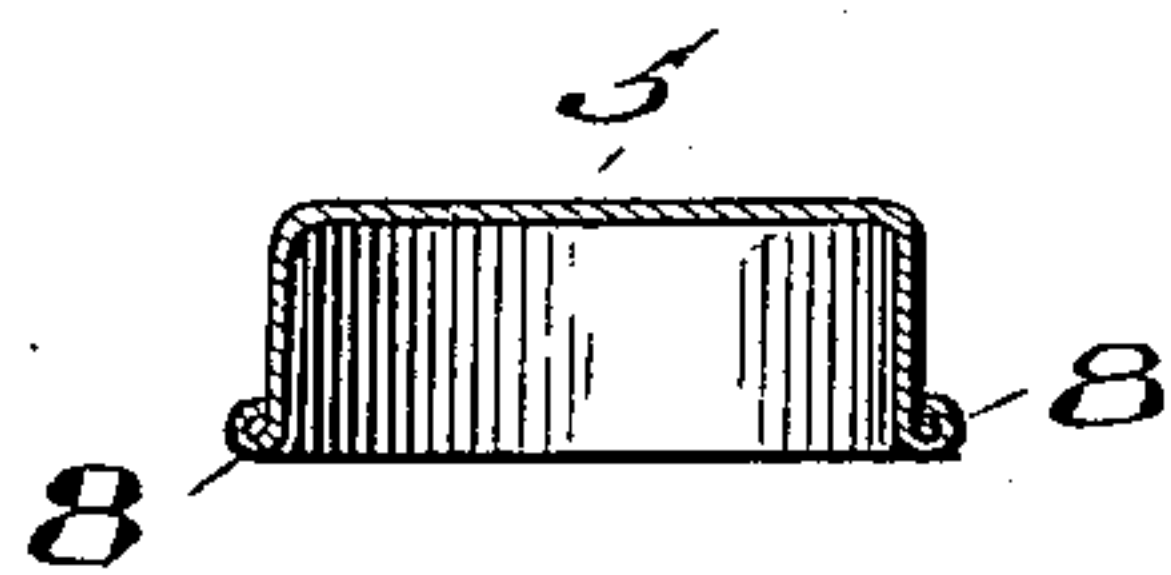
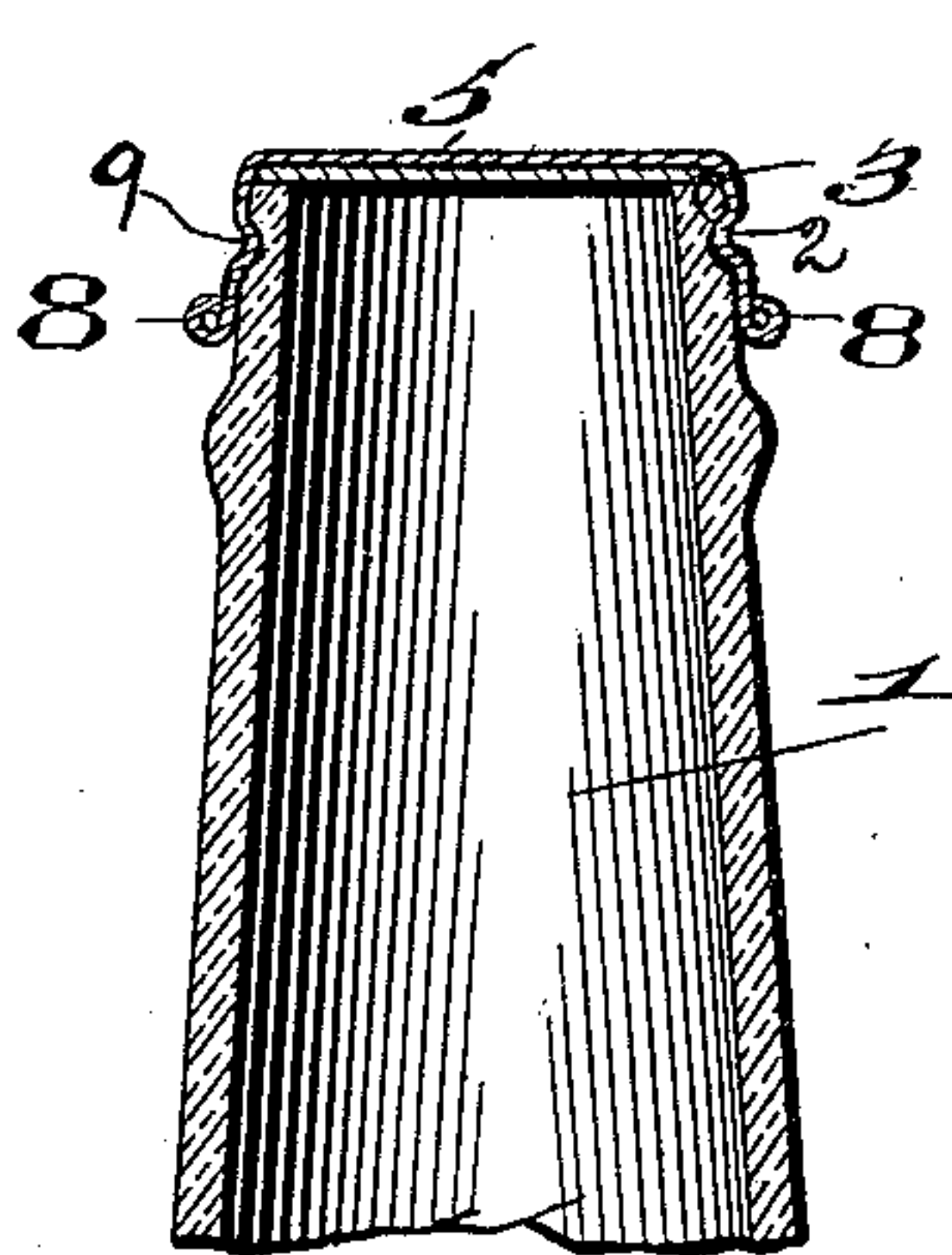


Fig. 4.



Witnesses:

J. M. Fowler Jr.
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UNITED STATES PATENT OFFICE.

HENRY S. BREWINGTON, OF BALTIMORE, MARYLAND.

BOTTLE-SEAL.

SPECIFICATION forming part of Letters Patent No. 730,812, dated June 9, 1903.

Application filed July 7, 1902. Serial No. 114,665. (No model.)

To all whom it may concern:

Be it known that I, HENRY S. BREWINGTON, a citizen of the United States, residing at Baltimore city, in the State of Maryland, have invented new and useful Improvements in Bottle-Seals, of which the following is a specification.

My invention relates to bottle-seals; and its object is to provide a device of the character named which will be so constructed and applied to the bottle-neck as to insure a hermetic sealing of the bottle, but permit of the ready removal of the cap or seal by the aid of a suitable opener.

The invention consists of a cap comprising a disk, a depending annular flange, and a packing below the disk, in combination with a bottle-neck formed with an external annular groove, into which a portion of the metal of the depending flange is compressed.

The invention also consists of a cap comprising a disk, a depending annular flange, and a packing below the disk, in combination with a bottle-neck formed with an external annular groove into which a portion of the metal of the depending flange is compressed, the lower edge of said depending flange being formed with an annular bead or reinforcement adapted to be engaged by an opener.

In the drawings, Figure 1 is a vertical section of the sealing-cap as it appears before application to the bottle-neck. Fig. 2 is a similar view of the cap applied to a bottle-neck. Fig. 3 is a vertical section of a modified construction of the sealing-cap, and Fig. 4 is a similar view showing the modified form of cap applied to a bottle-neck.

The reference-numeral 1 designates a bottle-neck formed adjacent to its upper end with an annular groove 2, which forms an annular shoulder 3. The bottle-neck is also preferably formed with an annular shoulder 4 below the groove 2 for the purpose herein-after described.

The cap or seal consists of a disk 5 and a depending annular flange 6, and within said flange, immediately below the disk 5, is located a packing 7, of cork or other suitable material.

The construction of sealing-cap shown in Fig. 3 is similar to that illustrated in Fig. 1,

except that the lower edge of the flange 6 is turned upward to form a reinforcing-bead 8.

The manner of applying the seal to a bottle-neck is clearly shown in Figs. 2 and 4. After the cap is placed over the bottle-mouth the flange 6 is compressed by any suitable mechanism to form an inwardly-projecting annular shoulder 9, which enters the groove 2 of the bottle-neck and engages below the shoulder 3 to securely retain the cap in position. This annular inwardly-projecting shoulder 9 is formed at about the vertical center of the flange 6, and that portion of said flange extending below the shoulder 9 closely embraces the bottle-neck below the groove 2 therein. The lower portion of the flange 6 engages a smooth surface of the bottle-neck, and the lower edge of said flange affords a convenient and reliable extension for the engagement of the ordinary opener in removing the cap from the bottle.

The lower edge of the flange 6 of the cap is protected by the annular shoulder 4 on the bottle-neck.

The annular bead 8 affords a strong and reliable grasping surface for an opener, and for this purpose, as well as for the purpose of reinforcing the flange, constitutes a feature of utility.

It will be obvious from the foregoing description in connection with the illustration in Figs. 2 and 4 of the drawings that the inward compression of the flange of the cap firmly secures the cap in position and forces the packing into firm and secure contact with the top edge of the bottle-neck. When the cap is secured to the bottle, the annular shoulder 9 and the depending portion of the flange below said shoulder closely embrace the bottle-neck and make a secure stopper and one which may easily be removed by the ordinary devices for this purpose.

I claim—

1. The combination with a bottle-neck formed with an external annular groove near its upper end, and a smooth portion below said groove, of a sealing-cap comprising a disk, a packing below the disk and an annular depending flange compressed at about the center of its height to form an inwardly-extending shoulder fitting the groove in the bottle-neck, and a depending portion below

the shoulder to embrace the bottle-neck, the lower edge of said depending portion affording means for engagement of an ordinary opener.

2. The combination with a bottle-neck, 5 formed with an external annular groove near its upper end, and a smooth portion below said groove, of a sealing-cap comprising a disk and an annular depending flange compressed at about the center of its height to 10 form an inwardly-extending shoulder fitting the groove in the bottle-neck, and a depend-

ing portion below the shoulder to embrace the bottle-neck, the lower edge of said flange being formed with an annular bead, to afford means for engagement of an opener, substan- 15 tially as described.

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

HENRY S. BREWINGTON.

Witnesses:

ROBERT C. RHODES,
A. A. REESE.