

No. 724,794.

H. S. BREWINGTON.
BOTTLE STOPPER.

PATENTED APR. 7, 1903.

APPLICATION FILED JULY 7, 1902.

NO MODEL.

Fig. 1.

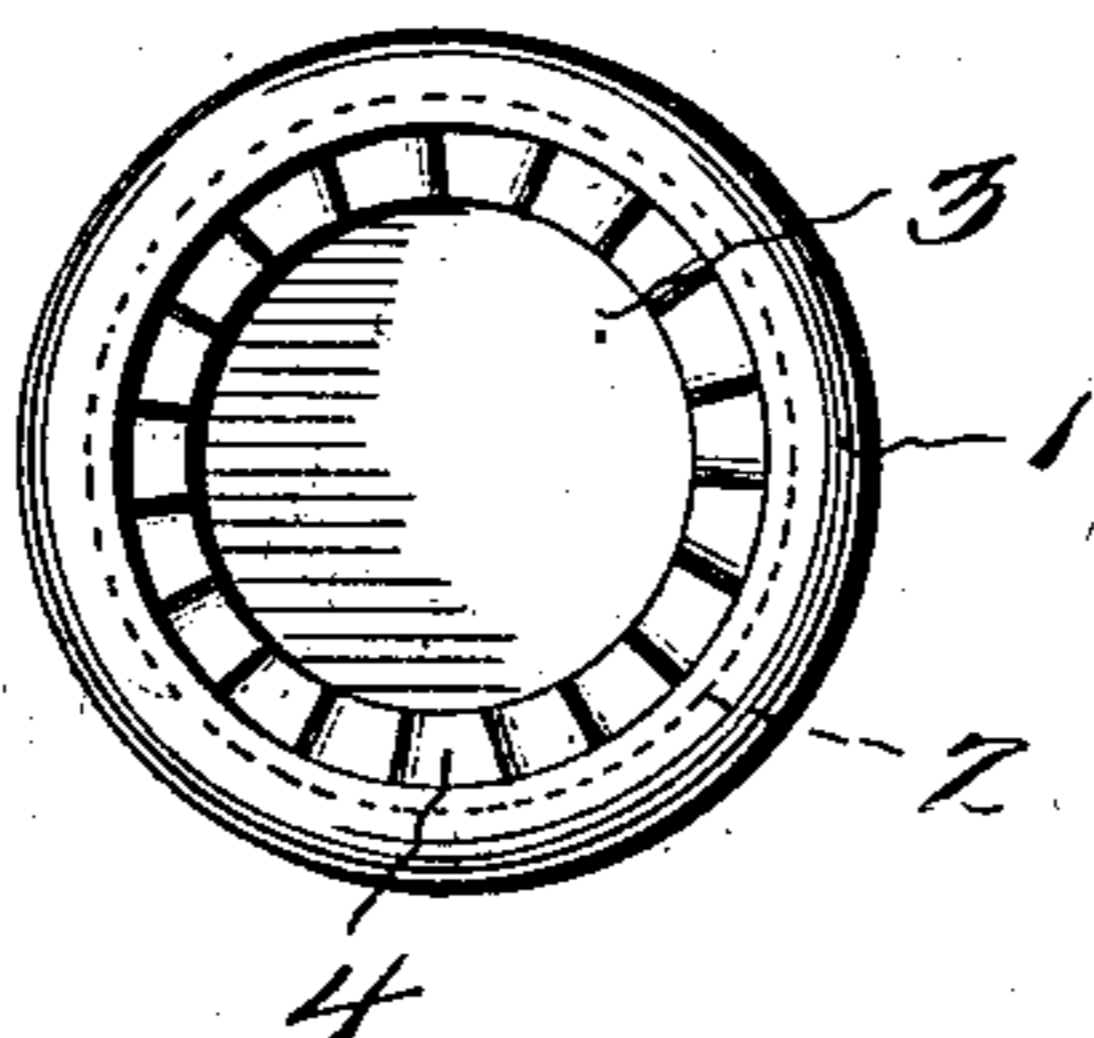


Fig. 2.

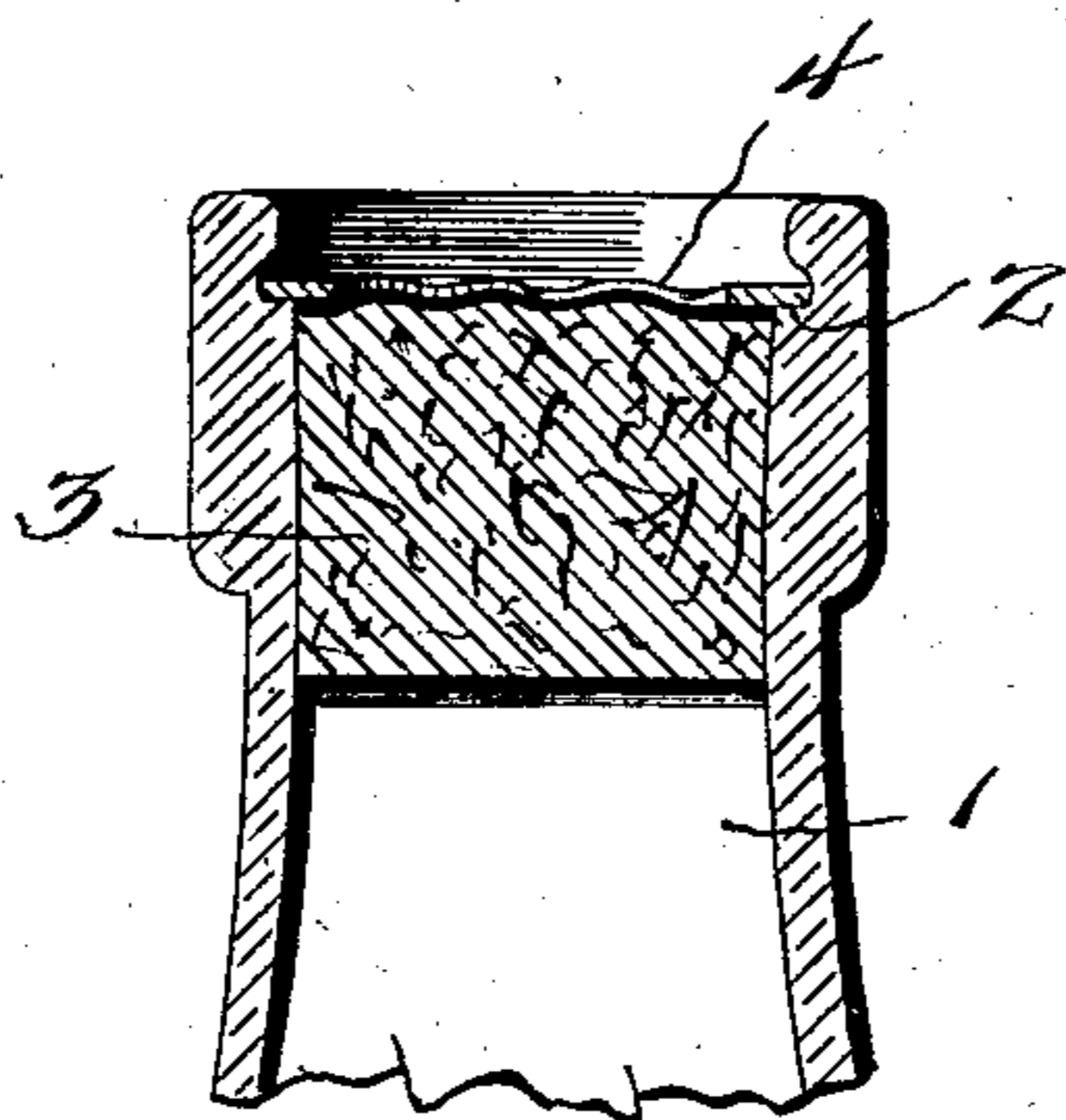


Fig. 5.

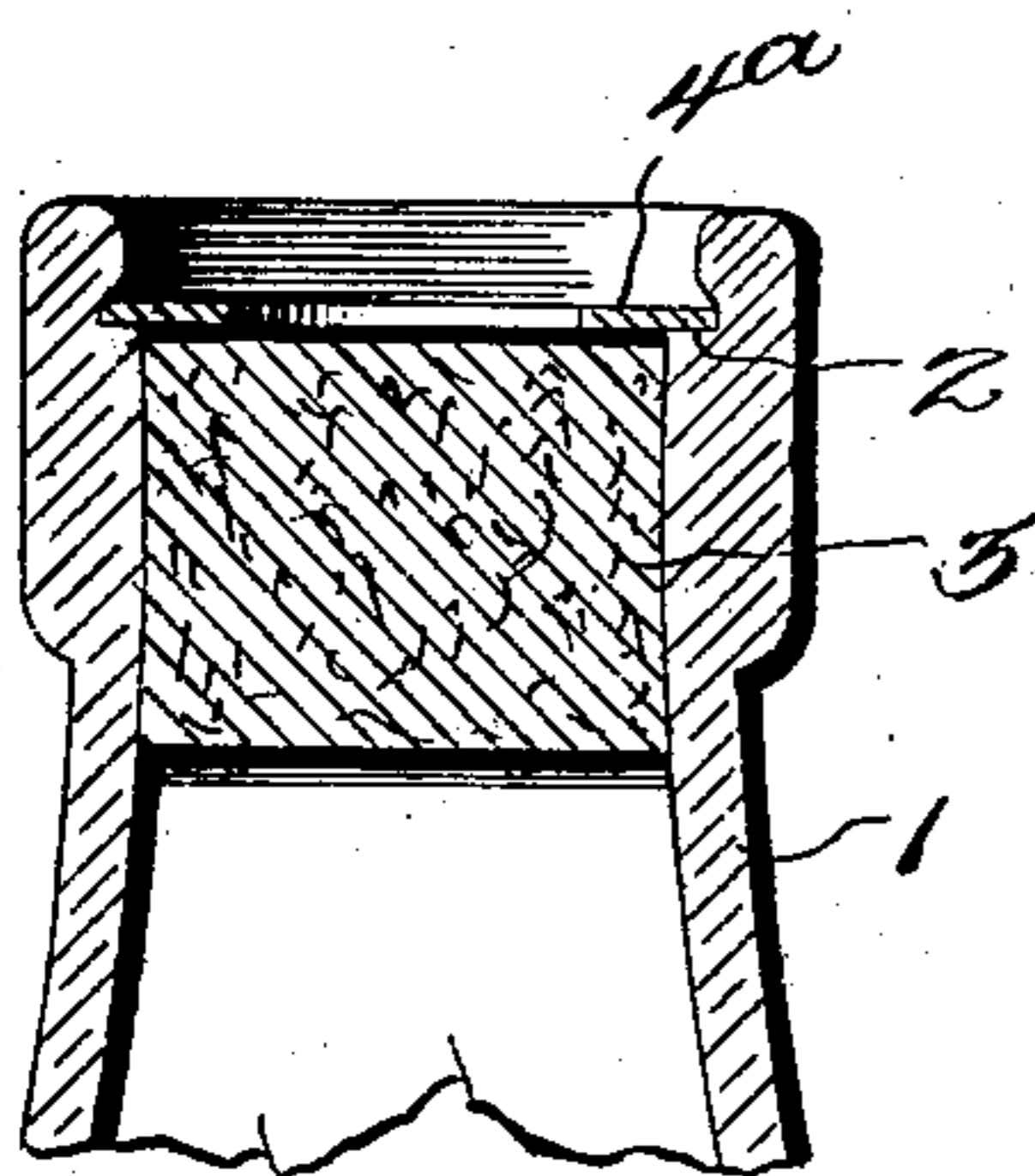


Fig. 4.

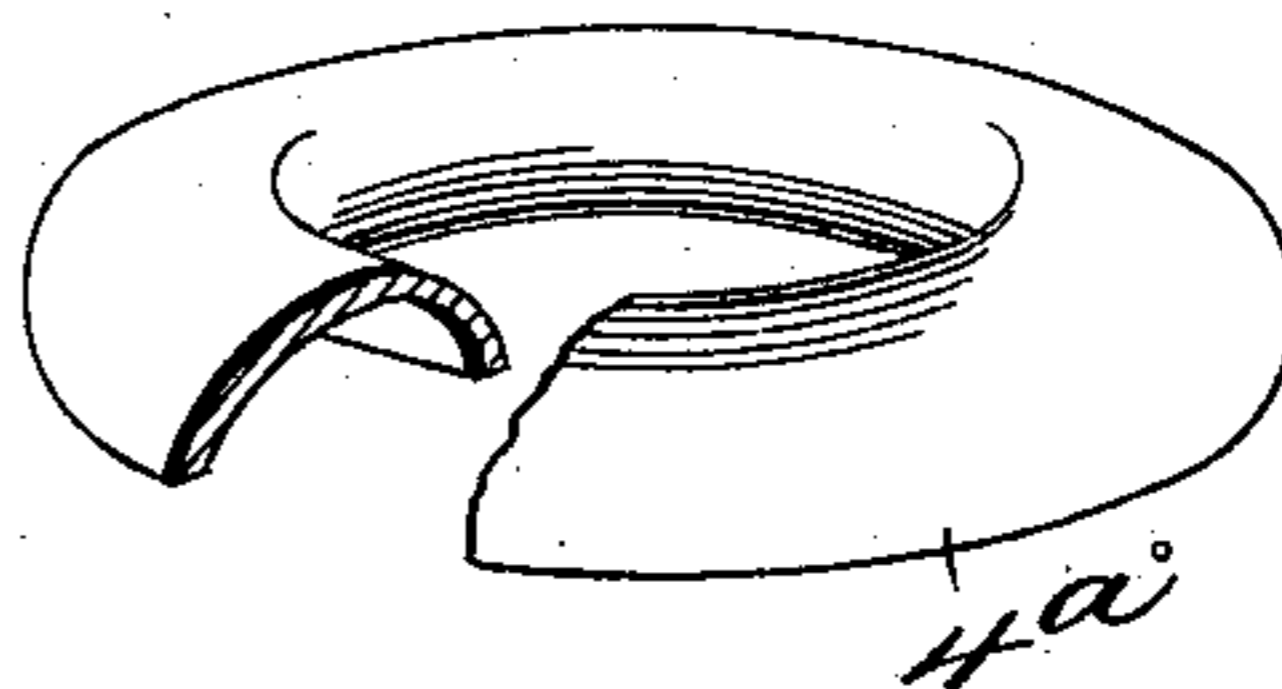
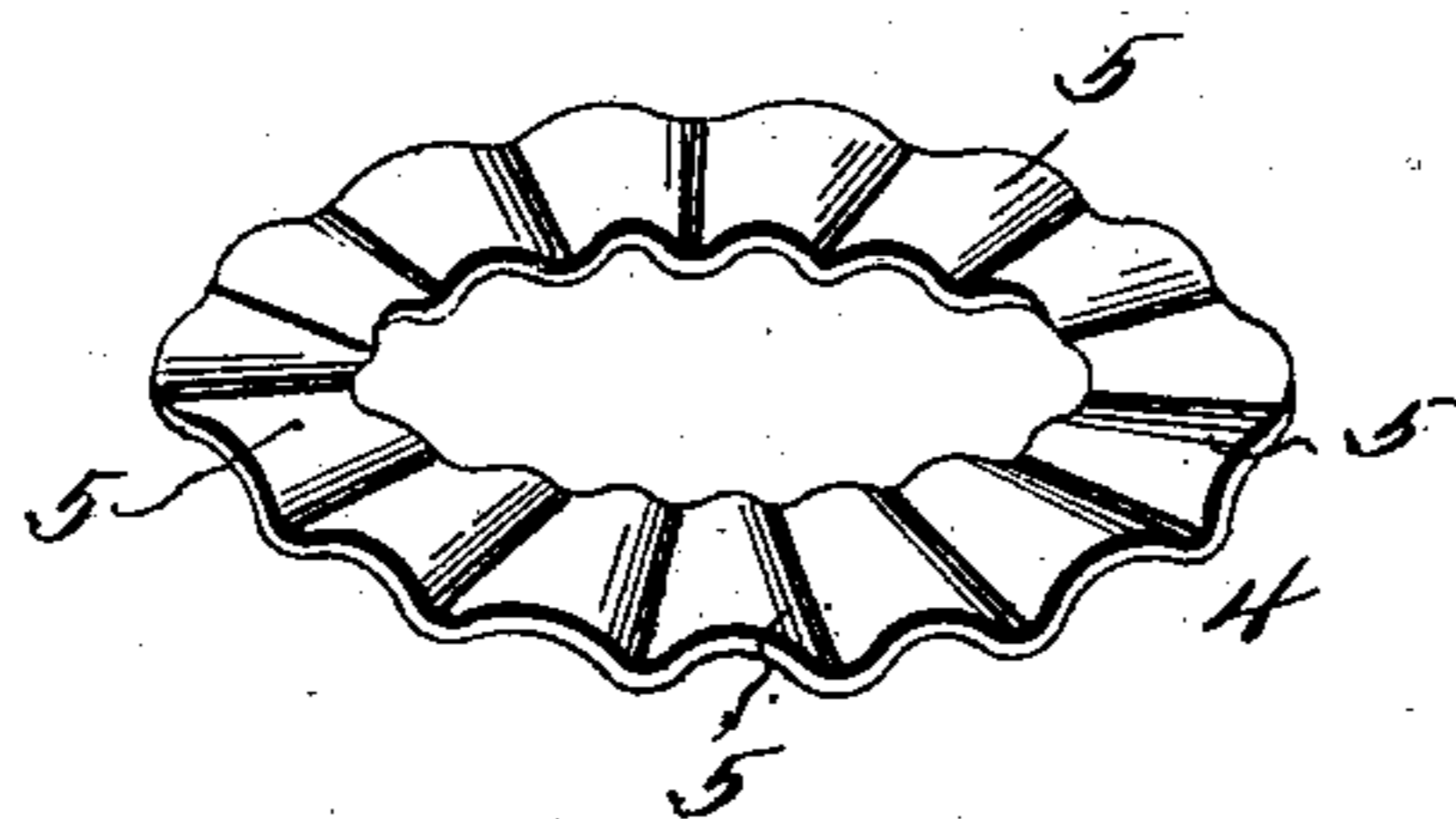


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY S. BREWINGTON, OF BALTIMORE, MARYLAND.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 724,794, dated April 7, 1903.

Application filed July 7, 1902. Serial No. 114,666. (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, in the State of Maryland, have invented new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

My invention relates to bottle-stoppers, and more particularly to means for securing a cork stopper within a bottle-neck.

The primary object of the invention is to provide a simple, effective, and inexpensive device for securing a cork stopper within a bottle-neck, thus avoiding the necessity for wiring the bottle to retain the cork.

A further object of the invention is to provide a simple and readily-removable cork-securing device the use of which will effect a material saving in the cost of cork stoppers, since a cork of small size is made to serve the purpose of the larger stopper commonly used.

With these objects and such others as may be disclosed hereinafter in view the invention consists of a compressible ring of sheet metal of novel construction and in the combination of said ring with a bottle-stopper and a bottle-neck formed with an internal annular shoulder.

In the accompanying drawings, which form part of this specification, Figure 1 is a plan view of a bottle-neck with the improvement applied thereto and as it appears before pressure is applied. Fig. 2 is a vertical section showing the ring as it appears after it is flattened by pressure. Fig. 3 is a view in perspective of the cork-holding ring attached. Fig. 4 is a perspective view, partly broken away, of a modified form of ring. Fig. 5 is a section showing the modified form of ring applied to a bottle-neck.

The reference-numeral 1 designates a bottle-neck formed adjacent to its upper end with an internal annular shoulder 2 and adapted to receive a cork stopper 3.

In Figs. 1, 2, and 3 the numeral 4 designates a cork-holding ring of sheet metal of such thickness as to be readily compressible by means of a die. The ring is formed with

a series of radial corrugations 5, which gradually increase in width from the center outward. After the stopper 3 has been inserted so that its upper end is about flush with the shoulder 2 the ring 4 is placed within the neck upon the cork and subsequently struck by a die, which flattens out the corrugations, and thus increases the diameter of the ring, forcing its outer edge under the shoulder, as clearly illustrated in Fig. 2.

In the modification shown in Figs. 4 and 5 the ring 4^a is of concavo-convex form in cross-section, and after it is dropped upon the cork it is flattened by pressure to force it under the shoulder 2 of the bottle-neck, as shown in Fig. 5.

The ring may be readily removed by a cork-screw or other implement before the cork is withdrawn, or it may be displaced by the withdrawal of the cork by means of a cork-screw.

It will be obvious that by the use of the improved device shown and described a very short cork only need be used, thus effecting a saving in cork, and also that the stopper is securely held without wiring.

I claim—

1. A holder for cork stoppers comprising a compressible sheet-metal ring curved in cross-section and adapted to be inserted into a bottle-mouth and forced under a retaining-shoulder within the bottle-neck by pressure.

2. A holder for cork stoppers comprising a compressible ring formed with a series of radial corrugations.

3. The combination with a bottle-neck formed with an internal annular shoulder, of a stopper, and a holder therefor, comprising a sheet-metal ring formed with radial corrugations and having its outer edge forced under said shoulder by pressure.

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

HENRY S. BREWINGTON.

Witnesses:

ROBERT C. RHODES,

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