

No. 736,466.

PATENTED AUG. 18, 1903.

G. WEST.
BOTTLE STOPPER.
APPLICATION FILED APR. 8, 1902.

NO MODEL.

Fig. 1.

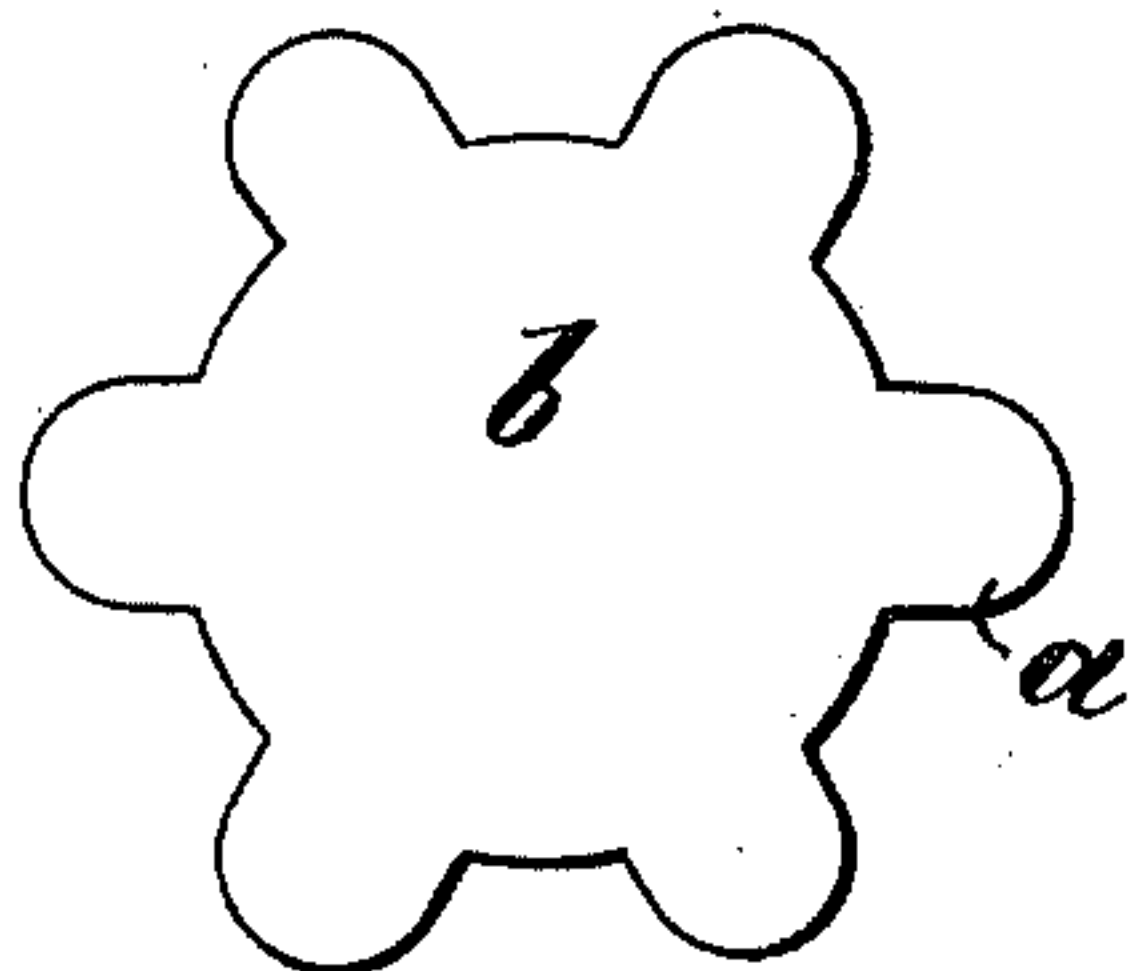


Fig. 2.

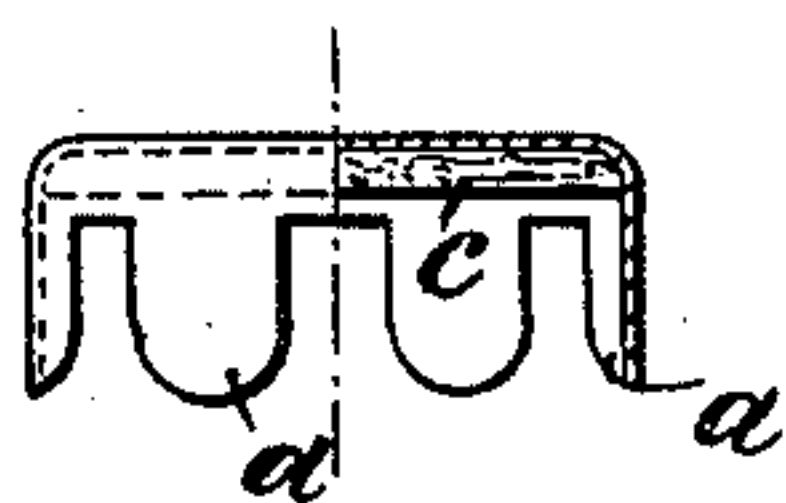


Fig. 3.

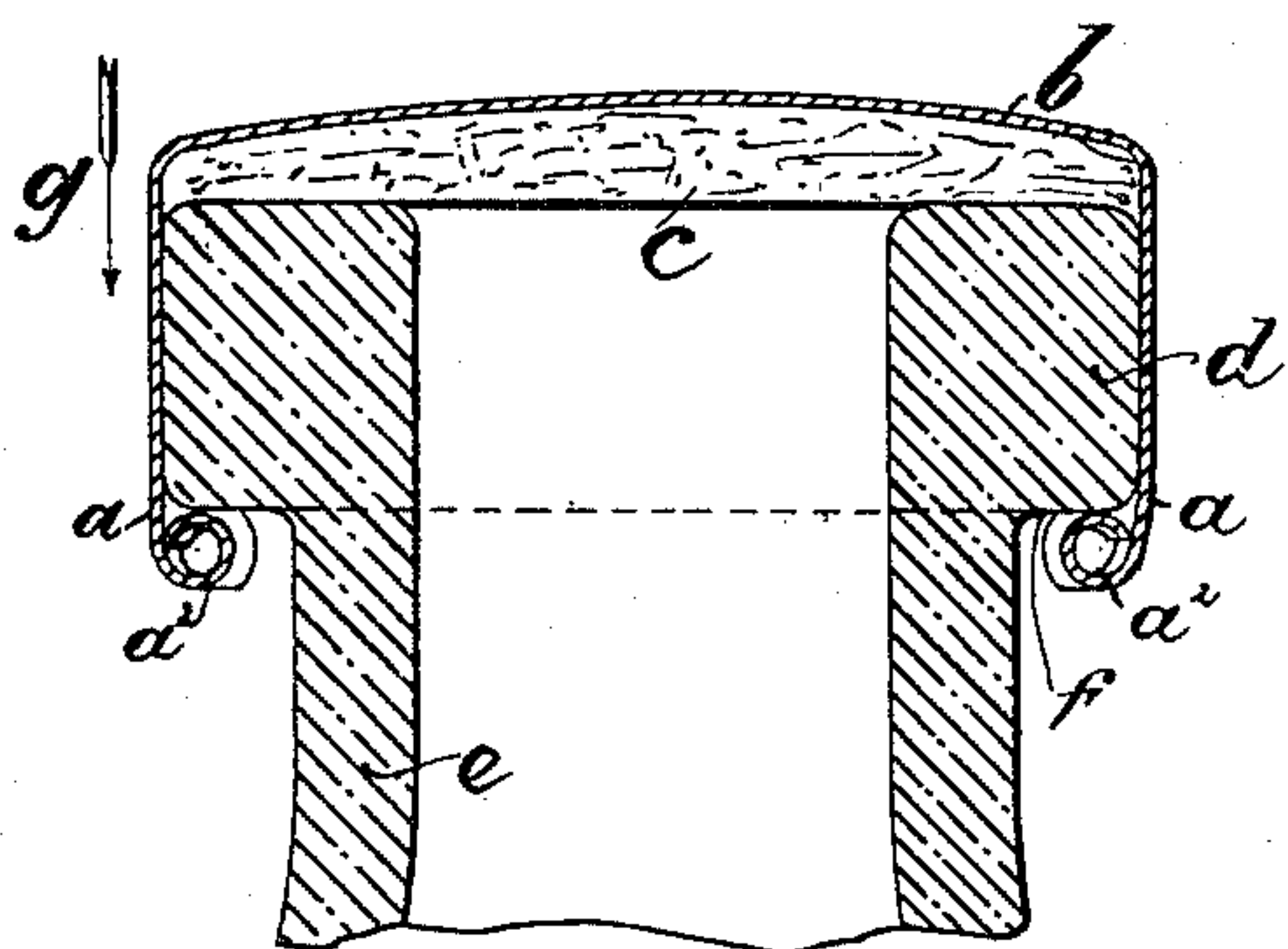


Fig. 4.

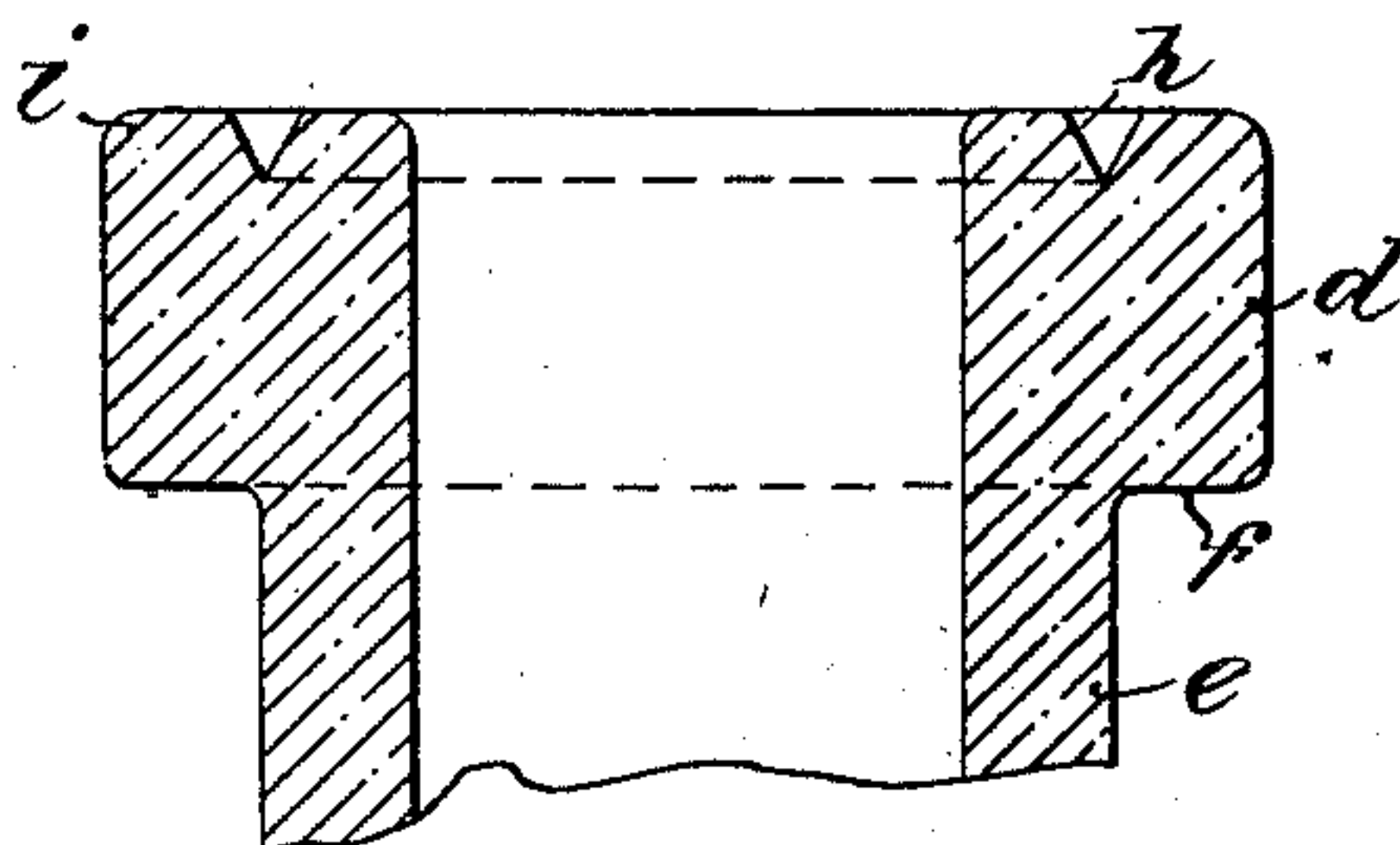


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORG WEST, OF GODESBURG, GERMANY.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 736,466, dated August 18, 1903.

Application filed April 8, 1902. Serial No. 101,910. (No model.)

To all whom it may concern:

Be it known that I, GEORG WEST, a subject of the King of Prussia, Emperor of Germany, residing in Godesberg-on-the-Rhine, Prussia, Germany, have invented an Improved Bottle-Stopper, of which the following is a specification.

The main object of my invention is to construct a simple and inexpensive but efficient form of stopper for bottles and other vessels.

In the accompanying drawings, Figure 1 is a view of the blank from which my preferred form of stopper is made. Fig. 2 is an edge view, half in section, of the stopper ready to be applied to a bottle. Fig. 3 is a sectional view, drawn to a larger scale, of the stopper applied to an ordinary form of bottle-neck. Fig. 4 is a sectional view of a preferred form of bottle-neck, and Fig. 5 is a sectional view of a modified form of packing-disk.

My improved stopper is of the capsule type and comprises a central disk *b* with a flanged edge or margin substantially at right angles to the central disk and interrupted to form separated flaps *a*, Fig. 2. The blank from which the capsule, Fig. 2, is formed is shown in Fig. 1. Where a fluid-tight closure is required, it is desirable to wedge into the hollow of the capsule a packing-disk, such as *c*, of cork, rubber, or other suitable material.

The inner diameter of the flanged capsule is made to correspond to the outer diameter of the neck of the bottle, jar, or other vessel to which it is to be applied. In Fig. 3 I have shown a bottle *e*, having a neck-ring *d*, over which the capsule is thus fitted, and the capsule is provided with a packing-disk *c*, the edges of which rest upon the top of the mouth of the vessel. To effect a closure, the lower ends of the flaps *a*, which extend below the neck-ring and which are normally straight, as shown in Fig. 2, are rolled up inward in a coil *a*² under the lower edge *f* of the neck-ring. The act of rolling up these lower ends serves to draw the capsule firmly down onto the mouth of the bottle, producing a secure and tight closure.

In consequence of the down-pull upon the capsule the outer margin of the packing-disk *c* is drawn down over the rounded outer edge *i* of the top of the bottle-neck, taking a slight curve and aiding thus in making the joint tight.

Instead of the common form of bottle-neck shown in Fig. 3, however, I prefer the construction shown in Fig. 4, in which an annular groove *h* is made in the upper surface of the neck, so that the packing-disk may be pressed more or less into this groove, and, if desired, the disk may be formed in advance with an annular rib *k*, as shown in Fig. 5, to fit into the groove *h*.

By rolling the flaps or flange underneath the neck-ring of the bottle or other vessel, as described, the capsule is not only drawn firmly down upon the neck of the vessel to close it tightly, but it can be opened only by tearing off the capsule, and thereby destroying its original form. This furnishes a security against unauthorized refilling of bottles or dilution, adulteration, or unauthorized abstraction of the contents, for the capsule once torn off cannot be used again.

I claim as my invention—

As a new article of manufacture, a bottle-stopper of the capsule type, consisting of a central disk having a marginal-flange part substantially at right angles to the disk, said flange part having separated flaps normally straight and in line with said flange, said flaps being adapted to be rolled up inward under the neck-ring of the bottle to draw the cap down onto the mouth of the bottle after the stopper has been applied thereto, and thereby permanently attach the stopper to the bottle, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORG WEST.

Witnesses:

CARL SCHMITT,
CHARLES LE SIMPLE.