

No. 768,380.

PATENTED AUG. 23, 1904.

F. LECOURT.

STOPPERING BOTTLES, JARS, OR LIKE VESSELS.

APPLICATION FILED APR. 6, 1904.

NO MODEL.

Fig. 1.

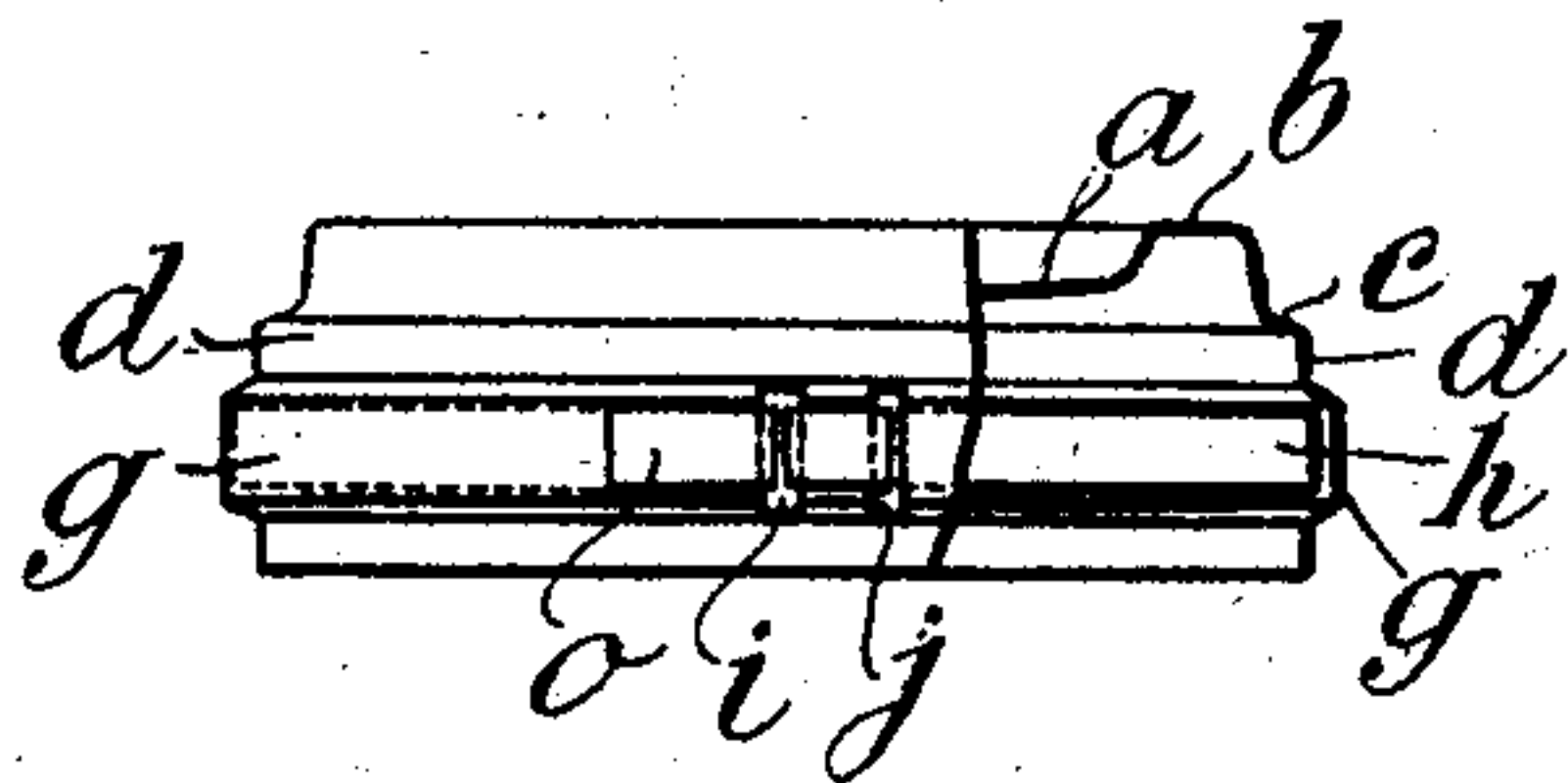


Fig. 2.

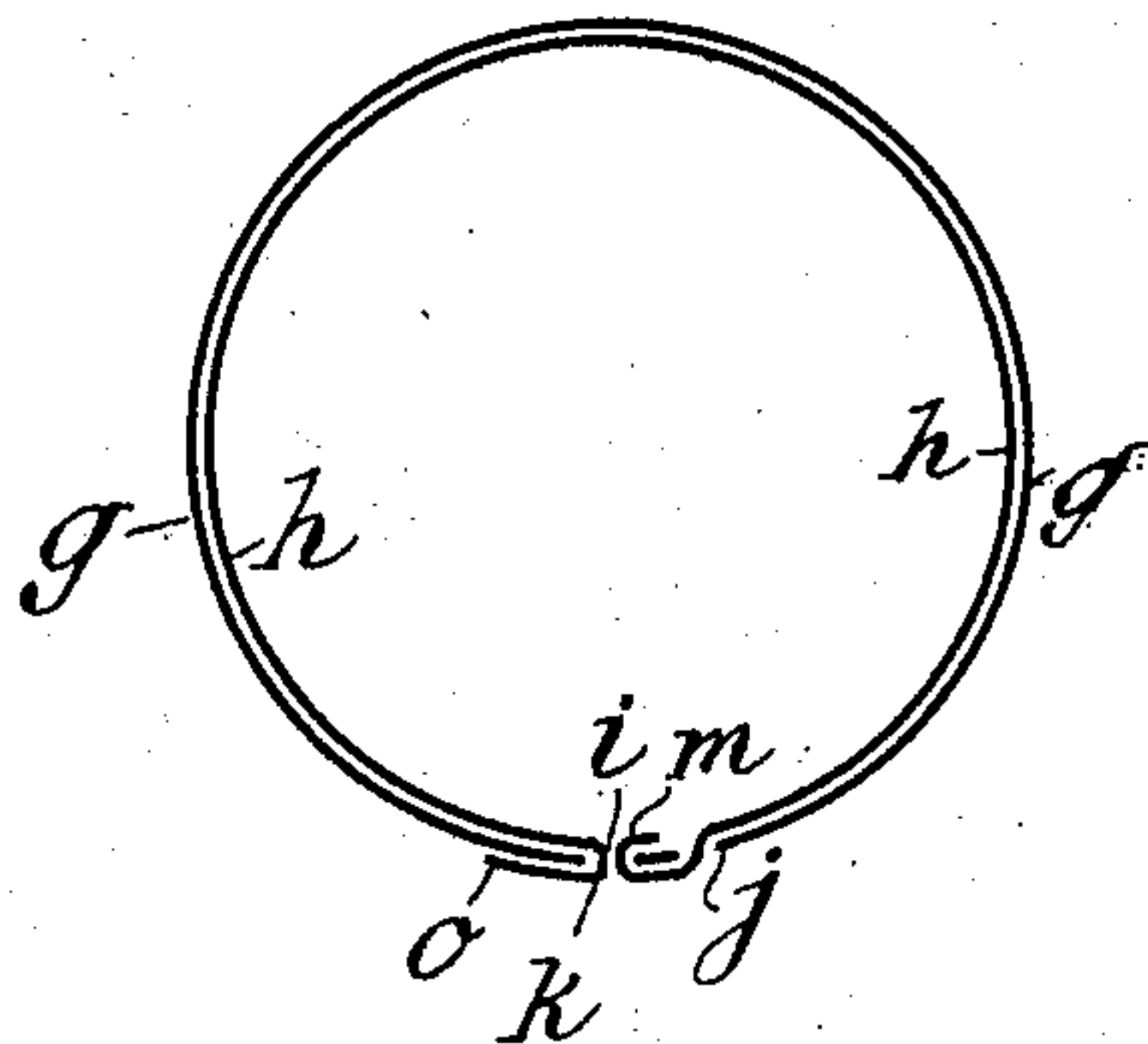
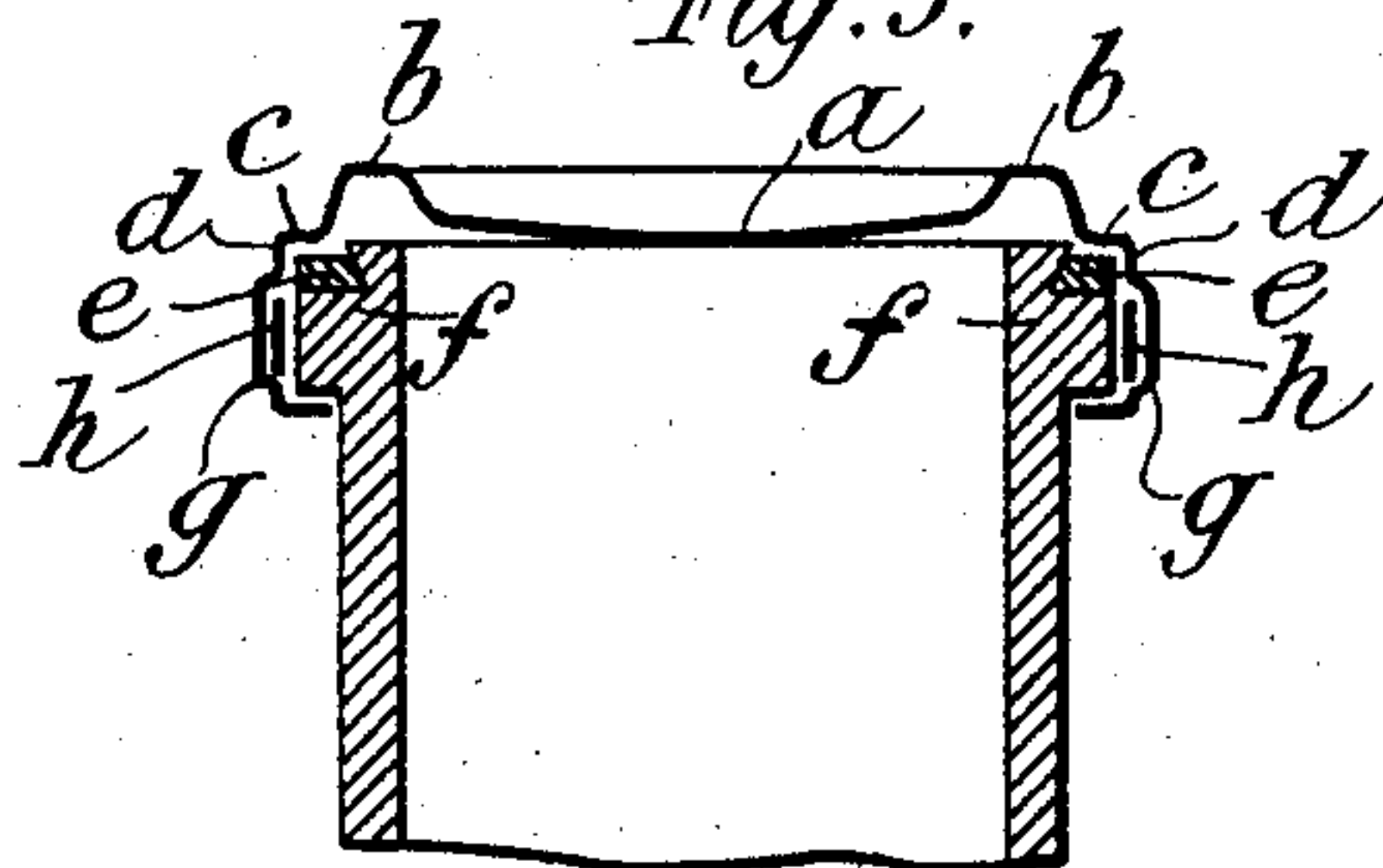


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANÇOIS LECOURT, OF SEVRES, FRANCE.

STOPPERING BOTTLES, JARS, OR LIKE VESSELS.

SPECIFICATION forming part of Letters Patent No. 768,380, dated August 23, 1904.

Application filed April 6, 1904. Serial No. 201,801. (No model.)

To all whom it may concern:

Be it known that I, FRANÇOIS LECOURT, a citizen of the Republic of France, residing in Sevres, Seine-et-Oise, France, have invented certain new and useful Improvements in Stoppering Bottles, Jars, or Like Vessels, of which the following is a specification.

This invention relates to certain improvements in stoppering bottles, jars, and like vessels, whereby a very hermetic stoppering of the said vessels is obtained, combined with ease of opening.

According to my invention I employ a capsule made in one piece, the bottle being adapted to be opened by tearing away a strip from the turned-over edge of the said capsule, the said strip being removed by the edges of an internal strip or band placed between the capsule and the flange on the neck of the bottle when a pull is exerted on the said tearing strip or band. The turned-over edge of the capsule has no weakened part formed in the metal, which is sometimes the case, but which is inconvenient in practice, as the metal gives way along the weakened lines should the bottle be subjected to a high temperature, such as boiling-point. The edges of the internal tearing-band are sufficiently sharp to cleanly detach the metal around the circumference of the capsule.

My capsule is formed with a concavity at the top. This concavity allows the metal to bulge when the bottle or the like is subjected to a high temperature, such as boiling-point, and subsequently retake its normal form under the effect of cold.

In order to enable the invention to be understood, I will describe the same by reference to the accompanying drawings, in which—

Figure 1 is an elevation, partly in section, of my stoppering device. Fig. 2 is a horizontal section, and Fig. 3 is a sectional view, of a bottle-neck, showing my invention applied thereto.

The capsule is in one piece and is formed by stamping from a tin-plate blank. The upper part has a concavity *a*, and a part *b* projects circularly above the capsule. Externally and a little lower is a plain circle *c*, which joins the top *d* of the turned-over edge of the

capsule. These two parts *c d* of the capsule serve to hold the rubber washer in position and to make a tight joint at the top of the bottle-neck. When the capsule is pressed down to effect the stoppering, the washer *e* is compressed, thus insuring a perfectly-tight joint.

The continuation of the turned-over edge of the capsule is of a diameter a little larger at the part *g* to form a groove or recess to receive within it the tearing strip or band *h*, which is applied in advance, so that at the same operation both the capsule and the internal band, which serves to tear away the capsule to unstopper the bottle, are placed in position.

The turned-over edge of the capsule is provided with two slits *i j*. The end *k* of the strip or band *h* is passed through the slit *i* and is bent externally to form a tongue *o*, the strip passing round inside the capsule. The other end of the strip or band *h* passes through the slit *j* to the outside of the capsule, which it re-enters at *m*, and is turned or folded over within it. The end of the band is thus folded on the capsule without solder and without forming an extra thickness.

The external tongue *o* is grasped with an ordinary key, on which is rolled the band for tearing the metal from the capsule along the two edges of the said tearing-band. The stop of the capsule is thus detached and the bottle is unstoppered.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. A metal capsule stamped from a single blank for bottles, jars, and like vessels, provided at the top with a downwardly-curved concavity *a* to allow of the capsule bulging outward when the bottle, jar or the like is subjected to a high temperature such as the boiling-point.

2. A metal capsule stamped from a single blank for bottles, jars, and like vessels, provided at the top with a downwardly-curved concavity *a* to allow of the capsule bulging outward when the bottle, jar or the like is subjected to a high temperature such as the boiling-point, and provided with portions *c*

and d bent toward each other to form a recess to receive a washer for making a tight joint.

3. The combination with a metal capsule stamped from a single blank for bottles, jars and like vessels, provided at the top with a downwardly-curved concavity a to allow of the capsule bulging outward when the bottle, jar or the like is subjected to a high temperature such as the boiling-point, of a strip or band carried by said capsule, the end of the said strip passing through the capsule to the outside and adapted to be grasped and to cause a strip to be torn from the capsule the lower end of which is turned under the flange on the bottle-neck.

4. The combination with a metal capsule adapted to be fastened upon the mouth of a vessel to close the same, of a band carried thereby and adapted to be pulled to tear the capsule so as to release it from the vessel.

5. The combination with a metal capsule adapted to be fastened upon the mouth of a vessel to close the same, of a band adapted to be pulled to tear the capsule so as to release it from the vessel, said band being fastened

to said capsule so that it is applied to the vessel therewith.

6. The combination with a metal capsule adapted to be fastened upon the mouth of a vessel to close the same and having a groove g below the top of the capsule, of a strip carried within said groove and adapted to be pulled to tear the capsule so as to release it from the vessel.

7. The combination with a metal capsule adapted to be fastened upon the mouth of a vessel to close the same, of a strip carried within said capsule and adapted to be pulled to tear the capsule so as to release it from the vessel, said strip having the ends bent around a portion of the capsule so as to fasten it to the capsule.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

FRANÇOIS LECOURT.

Witnesses:

JULES ARMENGAUD, Jeune,
HANSON C. COXE.