

No. 725,294.

PATENTED APR. 14, 1903.

H. I. F. STRANDH.

DEVICE FOR STOPPERING BOTTLES, JARS, OR LIKE VESSELS.

APPLICATION FILED NOV. 13, 1902.

NO MODEL.

Fig. 1.

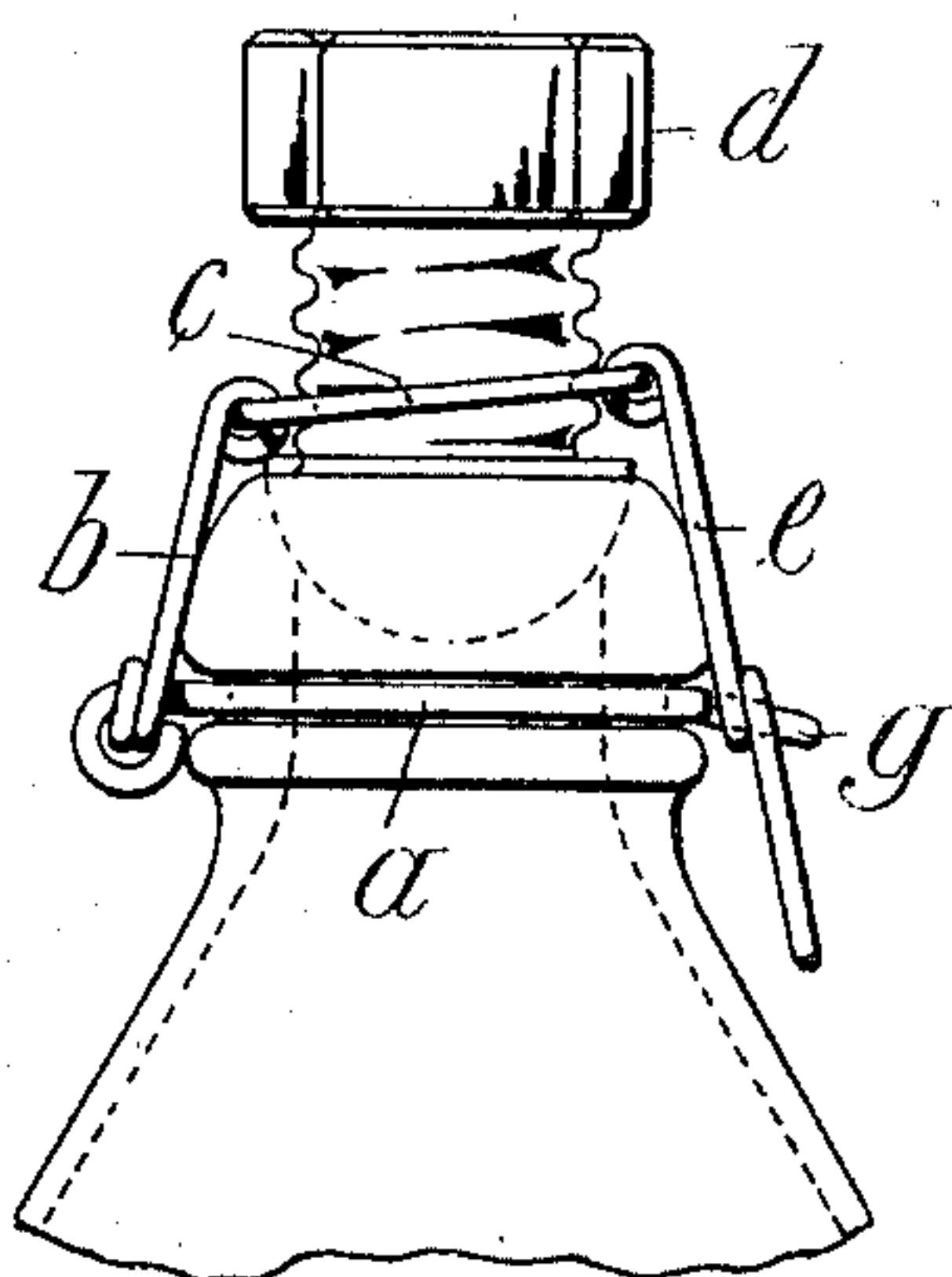


Fig. 2.

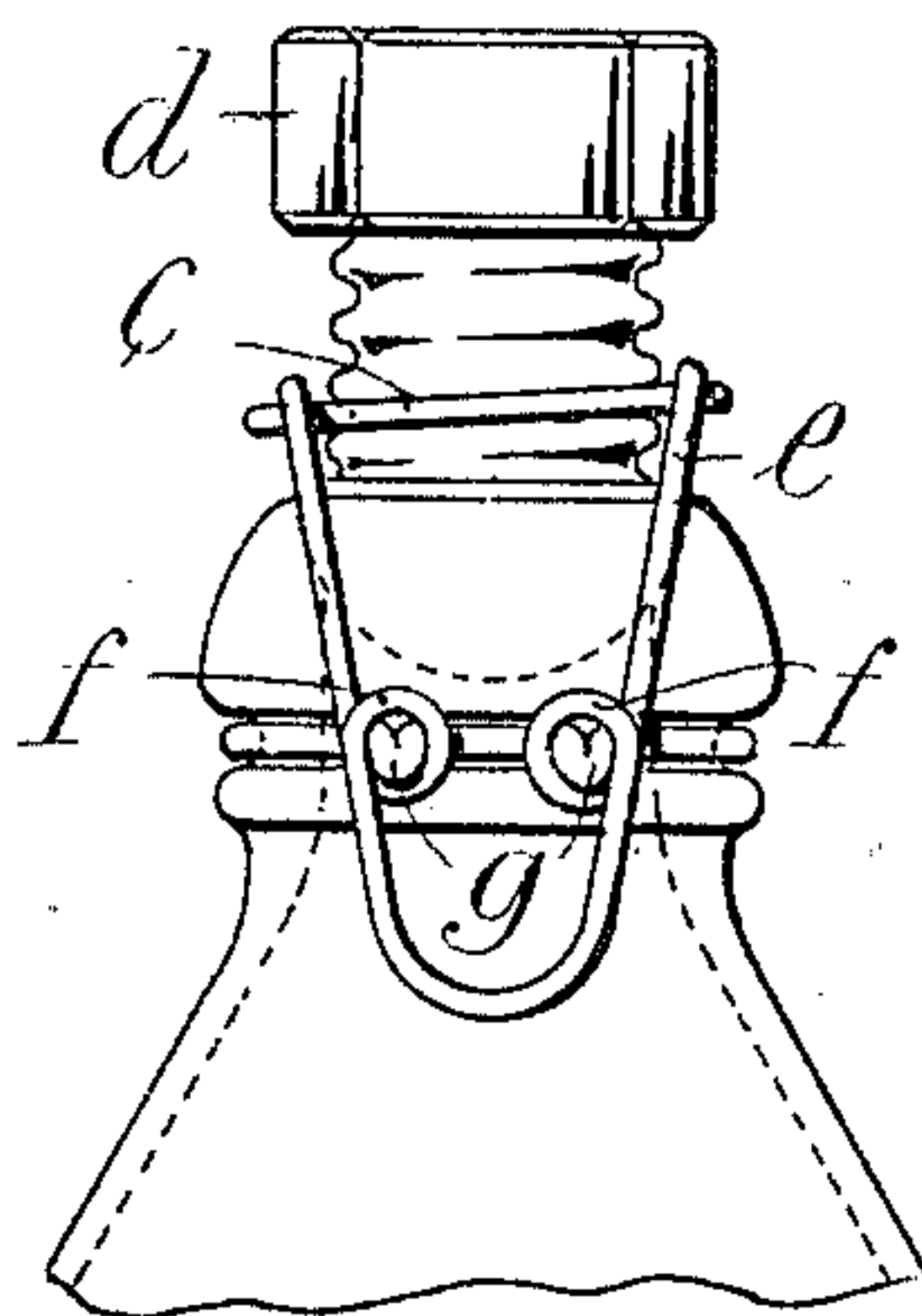
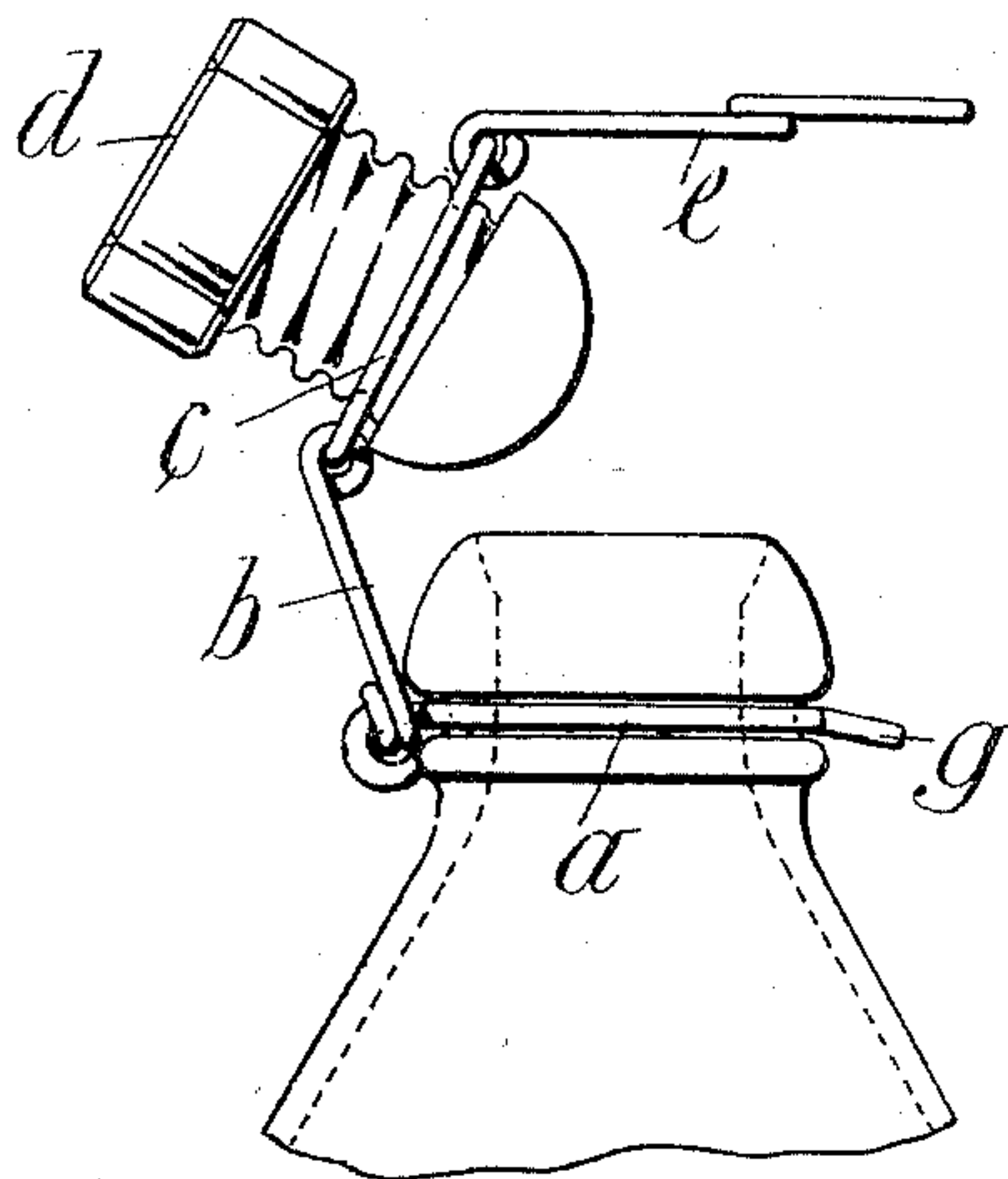


Fig. 3.



Attest
Malcolm Donaldson
L. B. Middleton

Inventor
Hans I. F. Strandh
by Richards & Co.
Attys

UNITED STATES PATENT OFFICE.

HANS ISAK FERDINAND STRANDH, OF FORSERUM, SWEDEN.

DEVICE FOR STOPPERING BOTTLES, JARS, OR LIKE VESSELS.

SPECIFICATION forming part of Letters Patent No. 725,294, dated April 14, 1903.

Application filed November 13, 1902. Serial No. 131,263. (No model.)

To all whom it may concern:

Be it known that I, HANS ISAK FERDINAND STRANDH, a subject of the King of Sweden and Norway, residing at Forserum, Sweden, have invented certain new and useful Improvements in Devices for Stoppering Bottles, Jars, or Like Vessels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The device for stoppering bottles, jars, and the like which forms the object of the present invention is shown in the accompanying drawings.

Figure 1 shows an elevation of the stopper inserted in the neck of a bottle. Fig. 2 is a similar view at right angles to Fig. 1, and Fig. 3 is a view showing the stopper withdrawn from the bottle-neck.

The arrangement consists, essentially, of a glass or like stopper or plug *d*, the lower fitting end of which is preferably made spherical, as shown in the drawings, and is ground in such a way as to fit tightly in the bottle-neck, which is also ground inwardly. This grinding in the bottle-neck is preferably tapering or conical, so that the inwardly-ground surface contacts with the ground sphere of the plug or stopper. By this means a tight contact is secured on all points around the circumference. It is evident, however, that the tight-fitting surfaces may be so ground that they fit closely together at all points, and, further, the end of the stopper and the bottle-neck may very well be of other form than that shown in the drawings. A tight joint may also be attained by means of a washer or in any other suitable manner, more particularly if the stoppers are employed for metal vessels. The plug or stopper is so arranged that by screwing around it is firmly pressed down into the bottle-neck. A ring *a* of steel wire is fixed around the bottle-neck. At one side of this ring one or more links *b* are provided, connecting it with another ring

c, which passes around a part of the plug or stopper *d*, having a screw-thread formed on it, and engages this thread, thus forming a kind of nut for the plug or stopper. Upon the nut-ring *c* is pivotally connected a clasp *e*, also made of steel wire and having two loops *f*, which may be hooked over two corresponding projections *g* on the ring *a*. The clasp *e* may of course have only one ring or loop *f* and also be formed in any other suitable manner.

When it is desired to close the bottle, the connection formed by the parts *b c e* is hooked with the plug *d* over the bottle-neck, and the clasp *e* is engaged over the projections *g*. The plug or stopper *d* is then turned around so that it is screwed down through the nut-ring *c* and pressed tightly into the bottle-neck. The whole connection *b c e* thus forms the necessary means for holding the stopper tightly in place. In order to open the bottle, it is only necessary to turn the stopper about half a revolution to the left, after which the clasp *e* is unhooked and the connections, together with the stopper, laid back in the manner shown in Fig. 3. It will of course be evident that the tightening may be effected in the same manner by turning around the rings on the stationary bottle neck and stopper.

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—

A bottle-stopper comprising a plug having a screw-thread and adapted to fit into the bottle-neck, a ring engaging the screw-threaded part to act as a nut, a ring engaging the bottle-neck and connections between the rings consisting of the link on one side and the pivoted clasp on the other, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HANS ISAK FERDINAND STRANDH.

Witnesses:

N. PRAWITZ,
A. NILSSON.