

No. 613,125.

Patented Oct. 25, 1898.

J. DEITSCH.
BOTTLE STOPPER.

(Application filed Jan. 20, 1898.)

(No Model.)

Fig. 1.

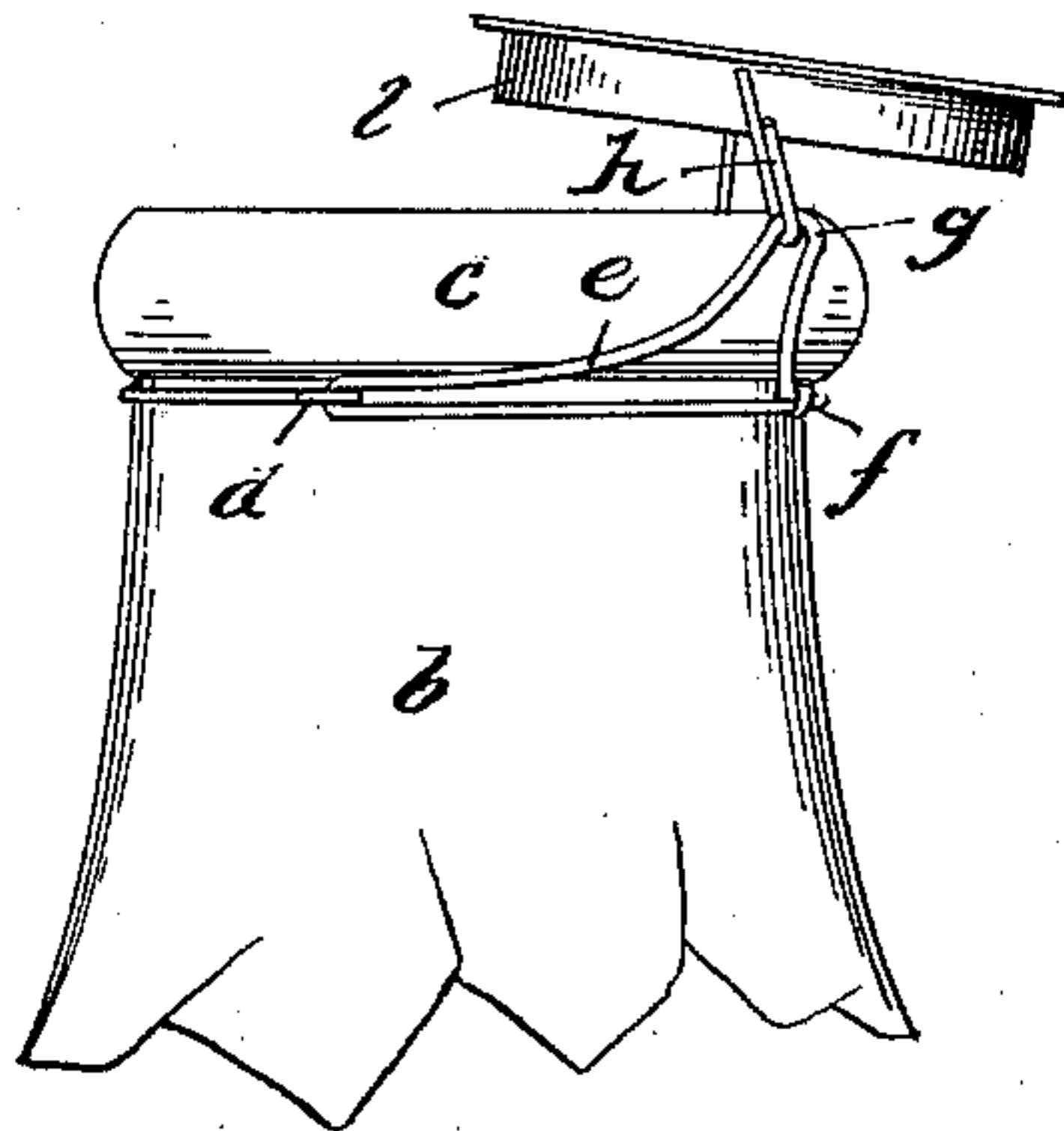


Fig. 2.

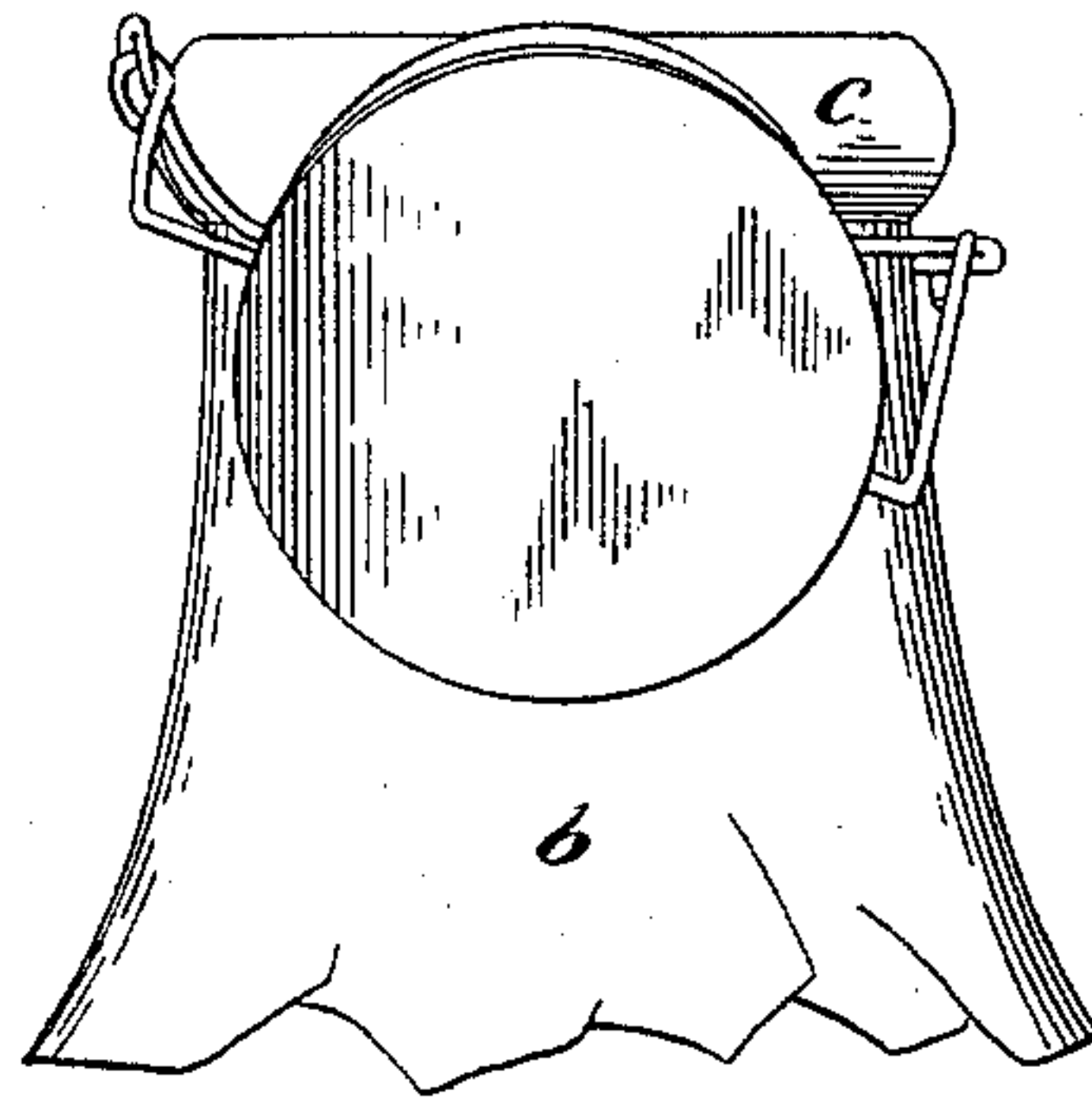


Fig. 3.

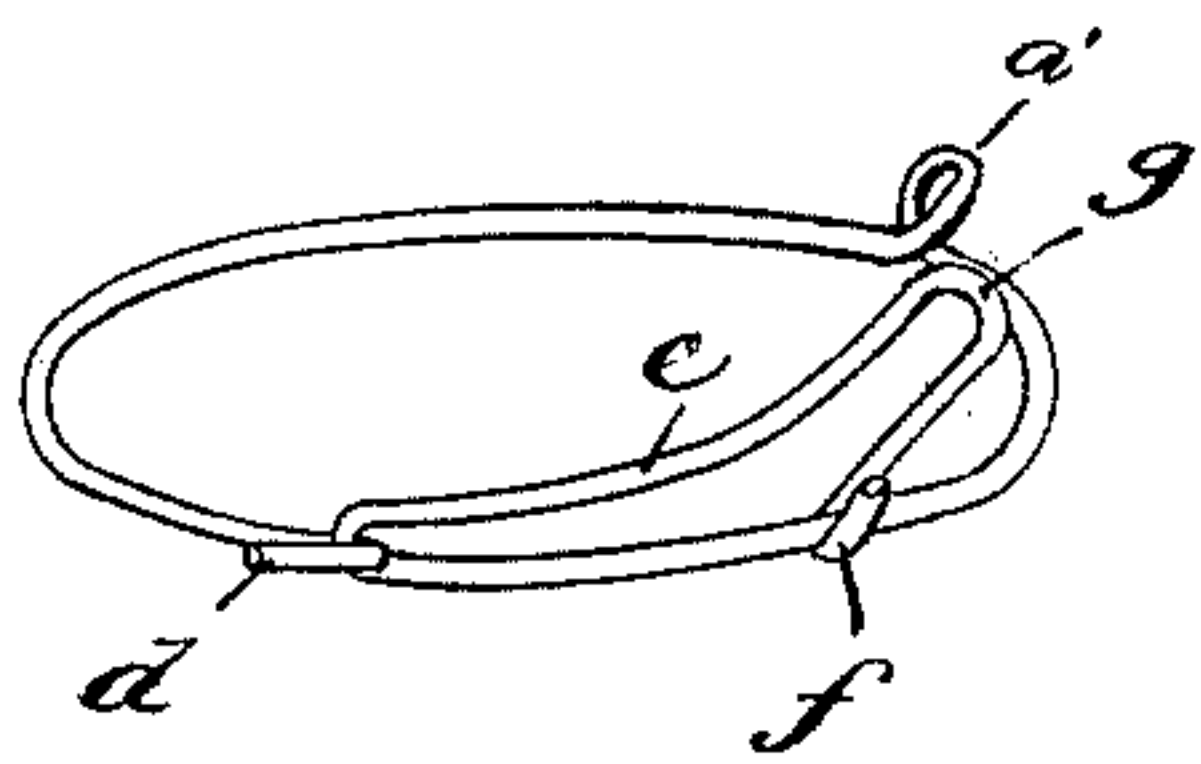


Fig. 5.

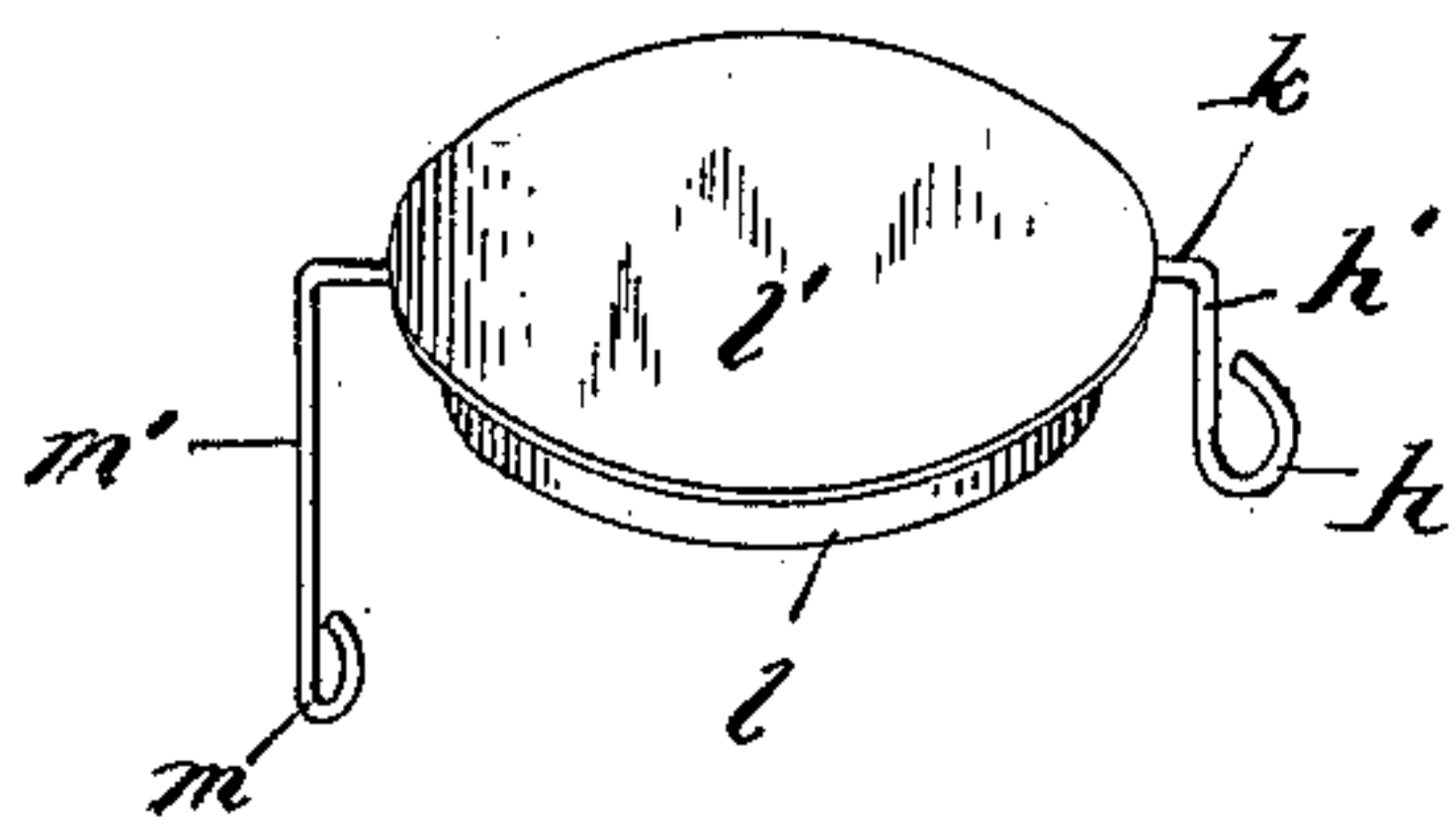
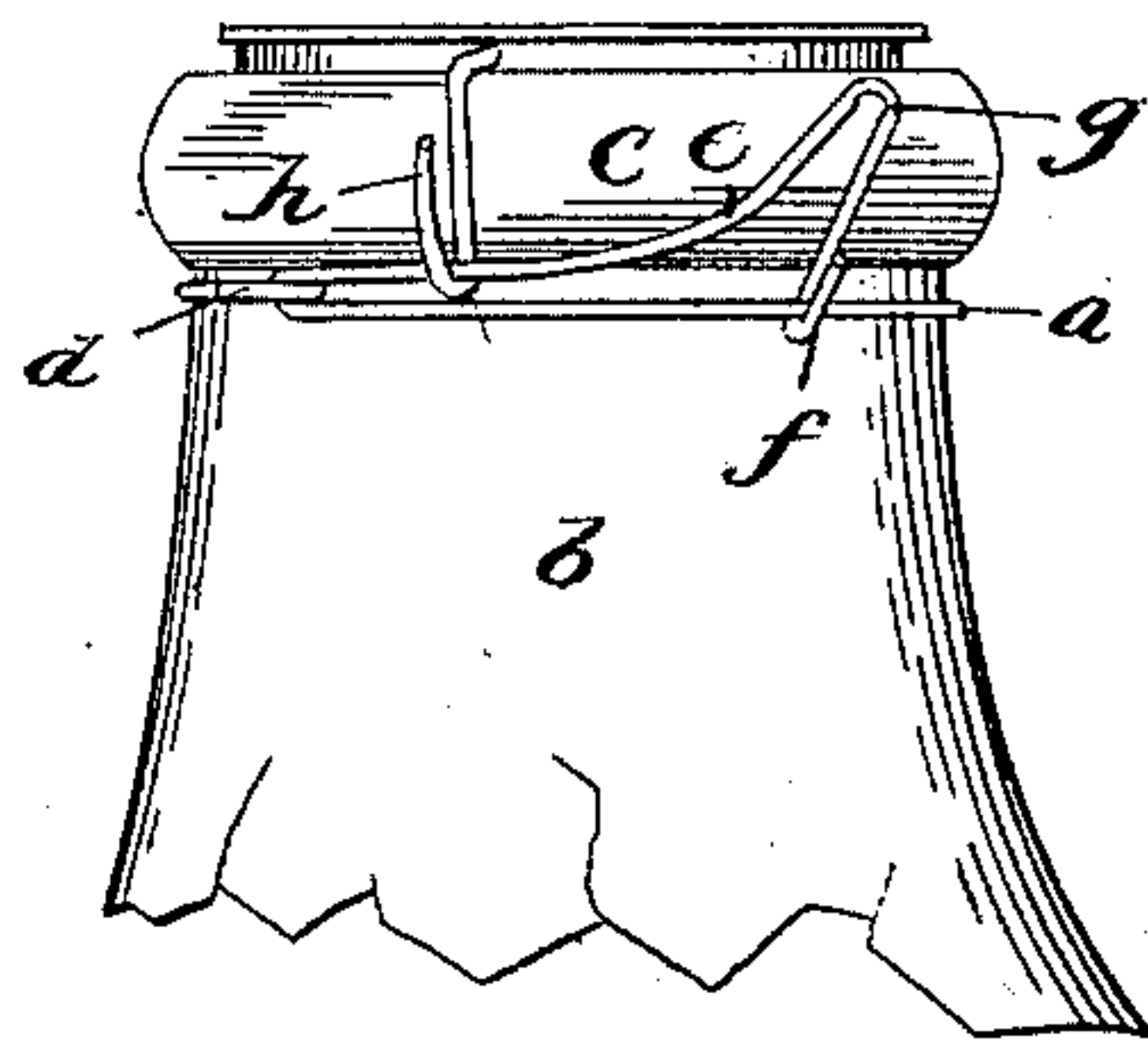


Fig. 4.

WITNESSES:

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JOHN DEITSCH, OF PITTSBURG, PENNSYLVANIA.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 613,125, dated October 25, 1898.

Application filed January 20, 1898. Serial No. 667,213. (No model.)

To all whom it may concern:

Be it known that I, JOHN DEITSCH, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in bottle-stoppers, and has for its object to provide a novel and effective seal for the bottle, which is attached to the bottle-neck in a manner to permit of the removal of the stopper or seal, so as to pour out the contents of the bottle, the stopper or seal being held suspended by the securing device attached to the bottle-neck.

20 The principal features of my invention comprise an annular ring, which is secured around the top portion of the bottle-neck and which has formed integral therewith an upwardly-inclined ear, to which is connected one end of the transverse rod, the other end of which is attached to the loop that is formed on the opposite side of the annular ring. This transversely-extending rod passes through and carries the stopper or seal, which is forced firmly down into the mouth of the bottle by drawing the transversely-extending rod or its hook end, which engages the inclined ear, downwardly and locking the same under the horizontally-extending portion thereof.

30 The invention finally resides in the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the claims.

40 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like reference-letters represent similar parts throughout the several views, in which—

45 Figure 1 is a side view of a portion of a bottle-neck, showing my improved stopper elevated in a partly-open position. Fig. 2 is a like view showing the stopper entirely removed. Fig. 3 is a perspective view of the annular ring for securing the stopper to the bottle-neck. Fig. 4 is a perspective view of the stopper and rod carrying the same. Fig.

5 is a side view showing the stopper in position in the neck.

To put my invention into practice, I provide an annular ring *a*, which is preferably composed of metallic wire or other suitable material, which is wound firmly around the bottle-neck *b* immediately below its top flange *c*. The one end of this wire is formed with a hook *d*, within which the body of the wire engages, and is thence carried upwardly on the incline *e* and downwardly, where the other end is looped over the body of the wire, as shown at *f*. This arrangement and construction form an eyelet *g*, within which engages the hook end *h* of the transverse rod *k*, passing through the rim *l* of the stopper or seal, said rod being carried downward on the opposite side of the said stopper or seal and its free end formed into a hook *m*, which engages in the loop *a'*, provided on the body portion of the fastening-wire, by simply coiling the said wire *a* at this point.

The downwardly-extending arm *m'*, which has the hook *m* formed in its end, is of greater length than the downwardly-extending arm *h'*, which has the hook *h* formed on its end, this construction being for the purpose of holding the stopper or seal at a level. The stopper or seal is provided with a suitable top plate or cover *l'* and may be composed of any desirable material. The hook *h*, which engages the eyelet *g*, is adapted to be of sufficient size to form a lever by means of which the stopper can be operated and the said hook forced upwardly or downwardly on the inclined wire *e*, as may be desired.

Assuming that the stopper is in the elevated position, as shown in Fig. 1, and it is desired to close the same into the mouth of the bottle, as shown in Fig. 5, it will be observed that by pressure on the hook *h*, so as to cause the same to ride down the incline wire *e*, the stopper will thereby be carried centrally over the mouth of the bottle and drawn tightly downward into the same as the hook *h* is forced toward the hook *d*. As the hook *h* comes into engagement with that portion of the inclined wire *e* which extends horizontally with the annular ring it will lock the same securely thereunder, thus requiring a reverse pressure in order to loosen the stopper and force the hook upward on the inclined

wire, so that the stopper may be carried out of the bottle-mouth and allowed to hang suspended, as shown in Fig. 2.

While the construction as herein shown and described appears to embody the preferred form of my invention, yet I do not wish to limit myself to this exact construction nor to any specific material for making the same, as it will be observed that this same principle may be carried out with many slight changes in the form of construction.

The bottle-stopper may be employed on bottles containing various kinds of liquids in which the bottle is refilled.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A bottle-stopper comprising an annular ring engaging the neck of the bottle, said ring being formed with an eyelet and an inclined ear on the opposite side, and a stopper which

is supported by a transversely-extending rod having downwardly-extending arms, which engage the aforesaid eyelet and inclined ear, as and for the purpose set forth.

2. In combination with a bottle-neck, an annular ring secured thereto and provided on its one side with an eyelet, and on the opposite side with an inclined ear, and a bottle-stopper which is suspended on the rod extending transversely of the bottle-neck and provided with downwardly-extending arms, which engage the aforesaid eyelet and inclined ear, substantially as shown and described.

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

JOHN DEITSCH.

Witnesses:

JOHN NOLAND,

THOS. M. BOYD, Jr.