

H. MILLER.

DEVICE FOR FORMING THE CHOKE IN BOTTLES.

No. 172,275.

Patented Jan. 18, 1876.

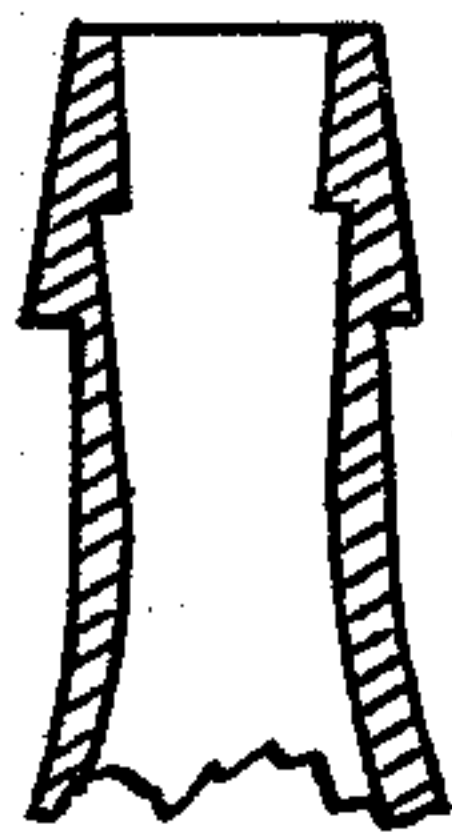
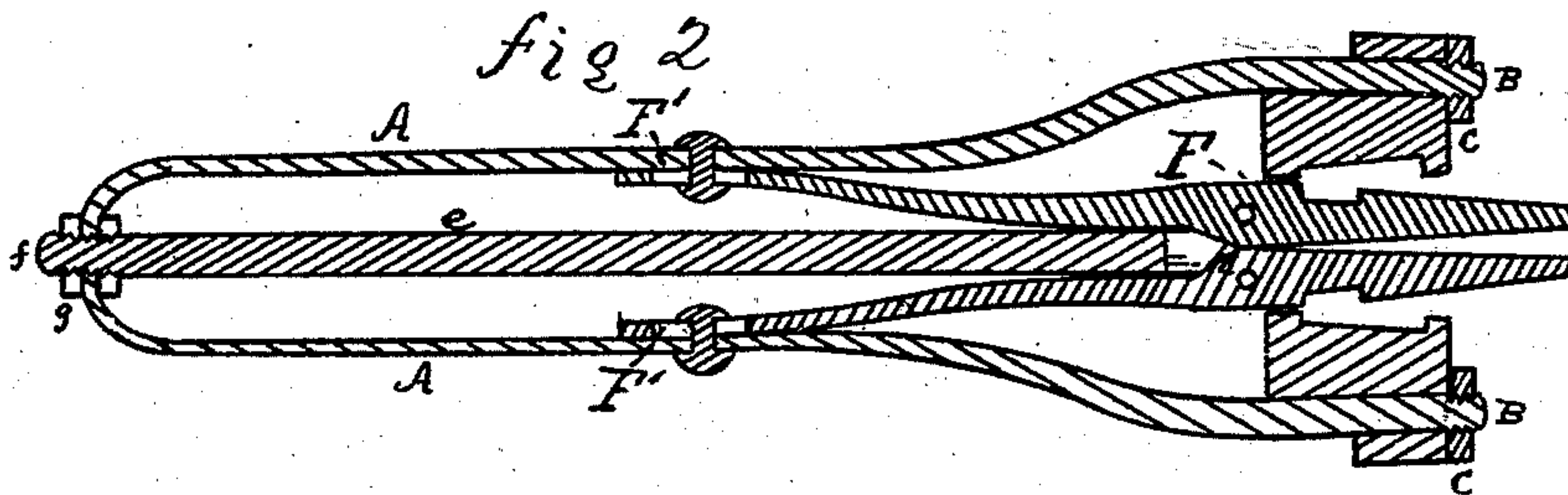
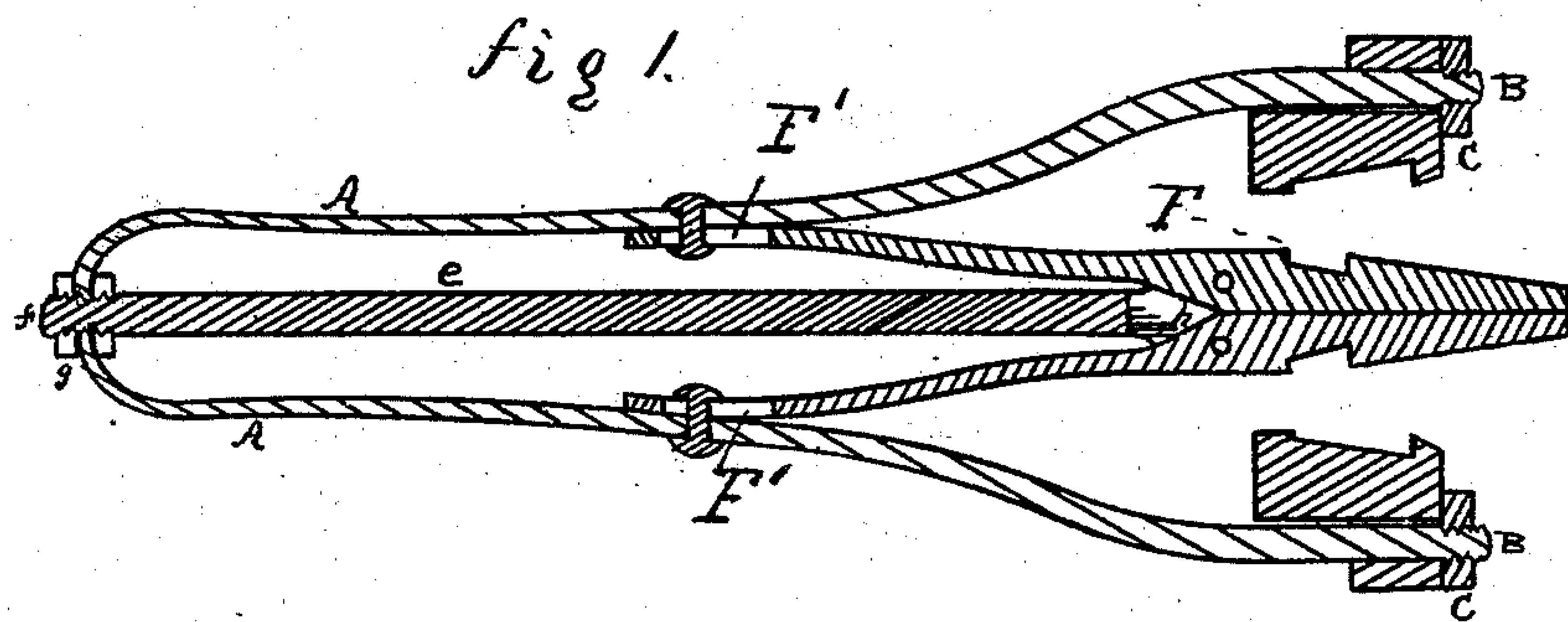


fig 3

Witnesses
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UNITED STATES PATENT OFFICE.

HENRY MILLER, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO JAMES A. CHAMBERS.

IMPROVEMENT IN DEVICES FOR FORMING THE CHOKE IN BOTTLES.

Specification forming part of Letters Patent No. **172,275**, dated January 18, 1876; application filed July 26, 1875.

To all whom it may concern:

Be it known that I, HENRY MILLER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Tool for Forming the Choke in Bottles; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

My invention relates to an improvement in tools for forming the choke in bottles; and consists in a mandrel constructed in two parts, each pivoted directly to the center-piece of a spring-handle, and also connected with such handle by means of slots, whereby the need of additional springs is avoided, said spring-handle carrying detachable forming-pieces, all as hereinafter set forth and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Figure 1 is a longitudinal section of the forming-tool, representing its arms expanded and the forming-mandrel closed. Fig. 2 is a longitudinal section of the forming-tool, representing the arms closed, and the forming-mandrel expanded in the operation of forming the choke. Fig. 3 represents the choke of the bottle after the tool has performed its office.

In the drawings, A represents the handle, which is constructed of spring-steel, and is furnished with screws B and nut C for the purpose of holding the detachable forming-pieces in position on the handle. *e* represents a center-piece, which is held in position between the arms of the handle A by means of the screw *f* and nuts *g*. The forming-mandrel F is constructed in two parts, which are pivoted to the center-piece *e*, as indicated at *h*. The inner ends of the two parts forming the mandrel are furnished with slots, in which are guide-pins, said guide-pins being secured in the arms of the handle A. By the use of the tool hereinbefore described, an inner shoulder or recess can be formed in the neck or choke of the bottle for the purpose of allowing the cork to expand, and thereby be securely held in the neck of the bottle.

Having thus described my improvement, what I claim is—

The mandrel F, constructed in two parts, each pivoted directly to the center-piece at *h*, and connected with the spring-handle A by slots *F'*, said handle carrying the detachable forming-pieces, all constructed and combined substantially as shown and described.

HENRY MILLER.

Witnesses:

A. C. JOHNSTON,
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