

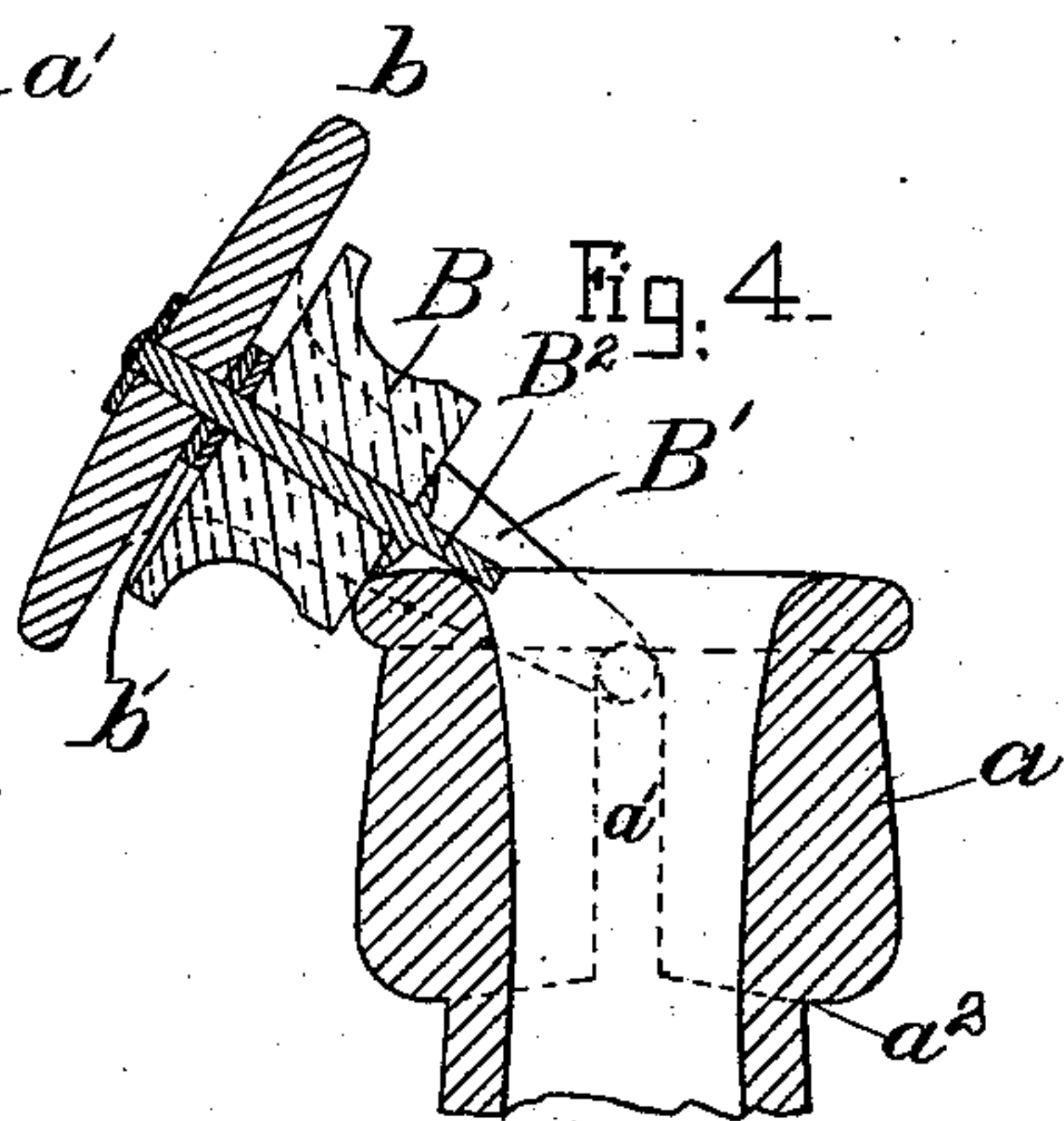
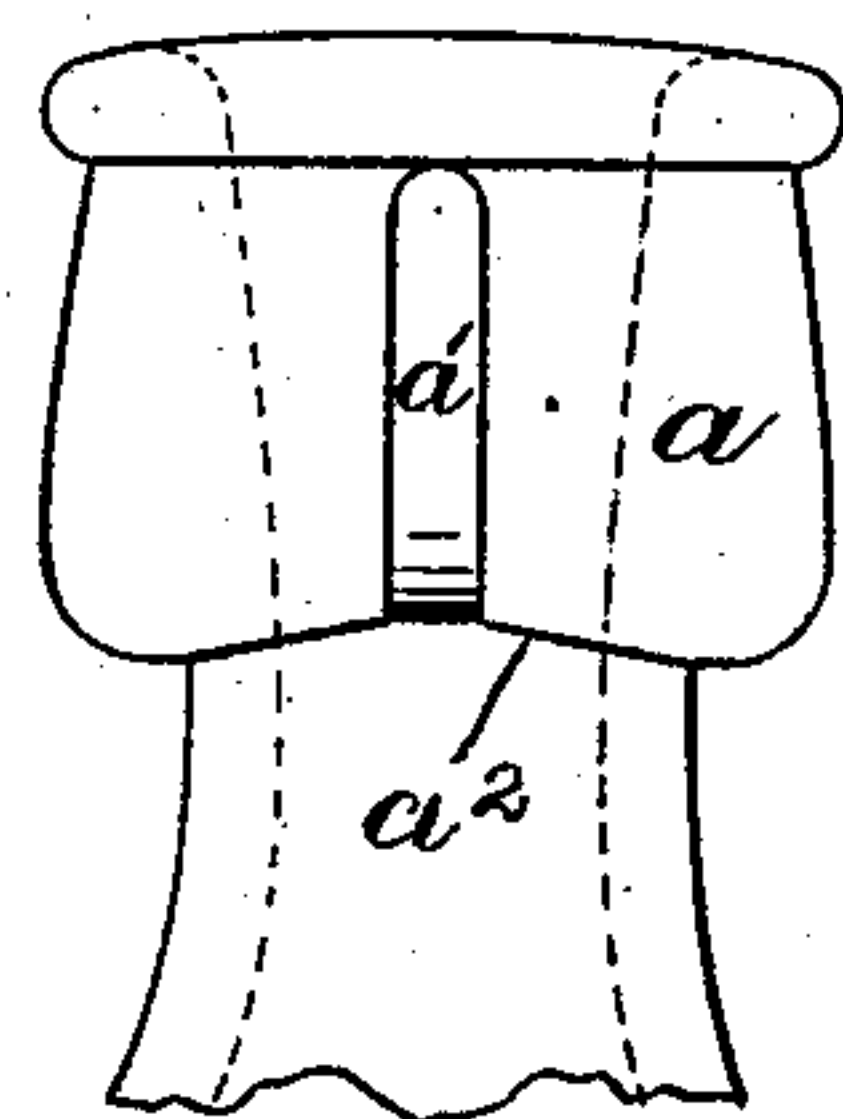
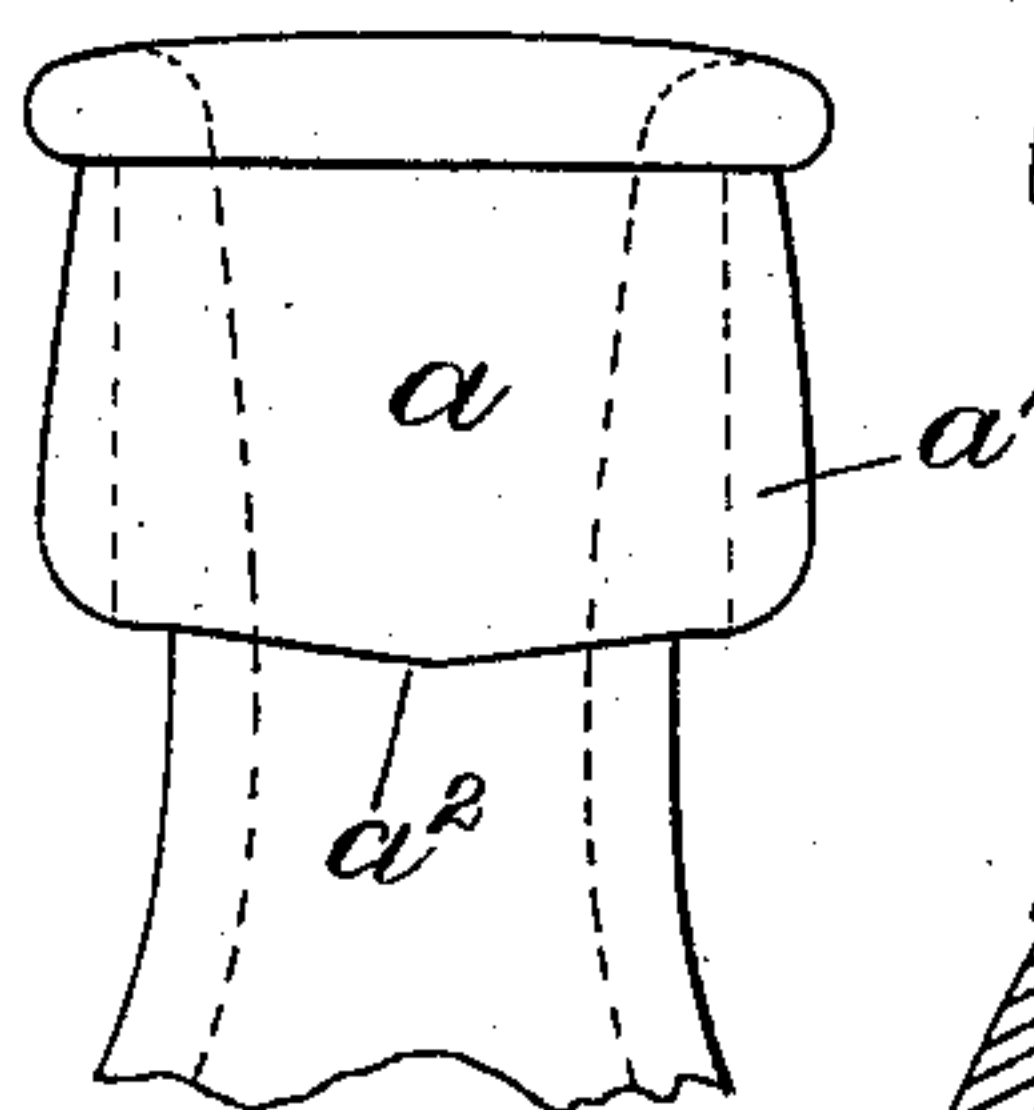
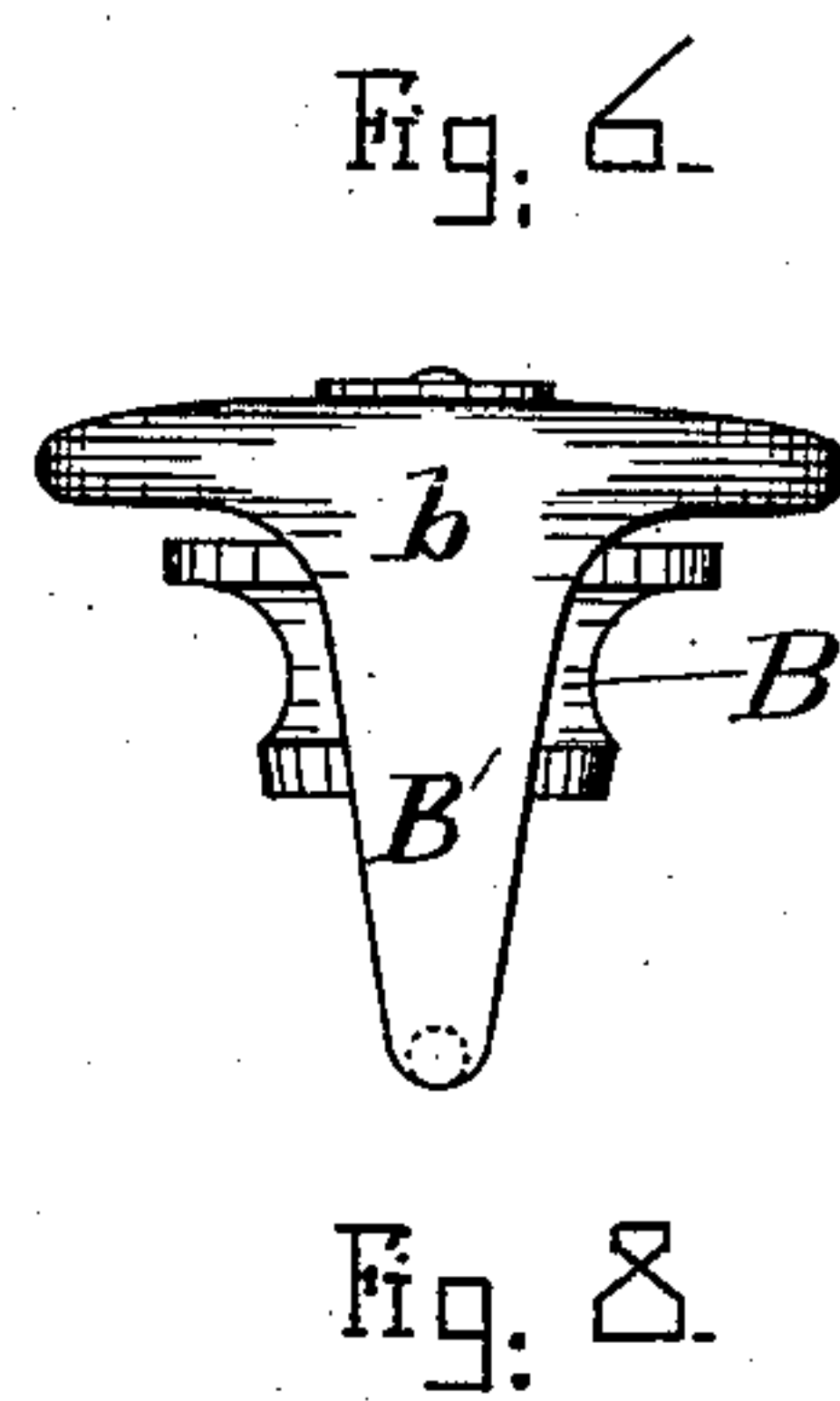
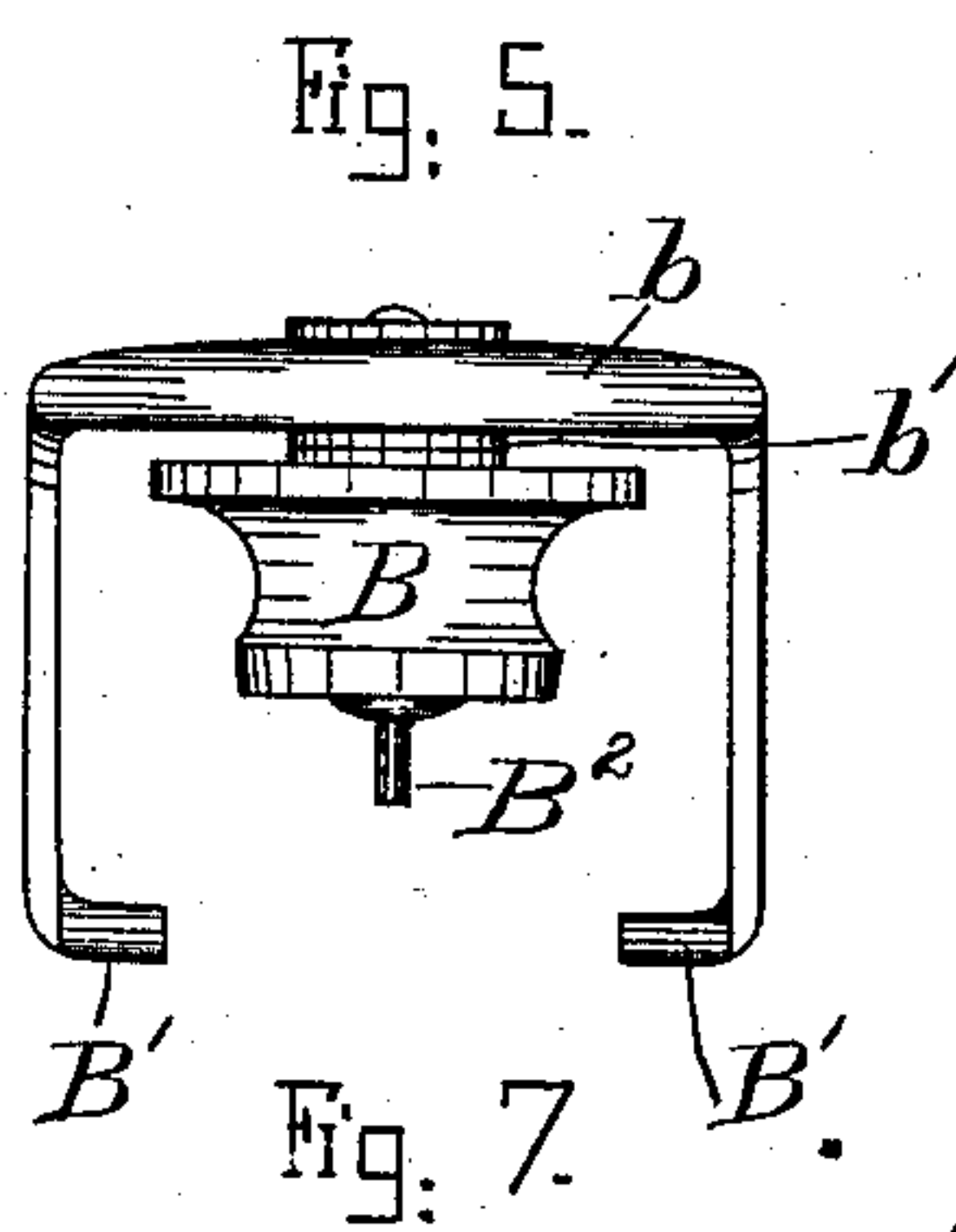
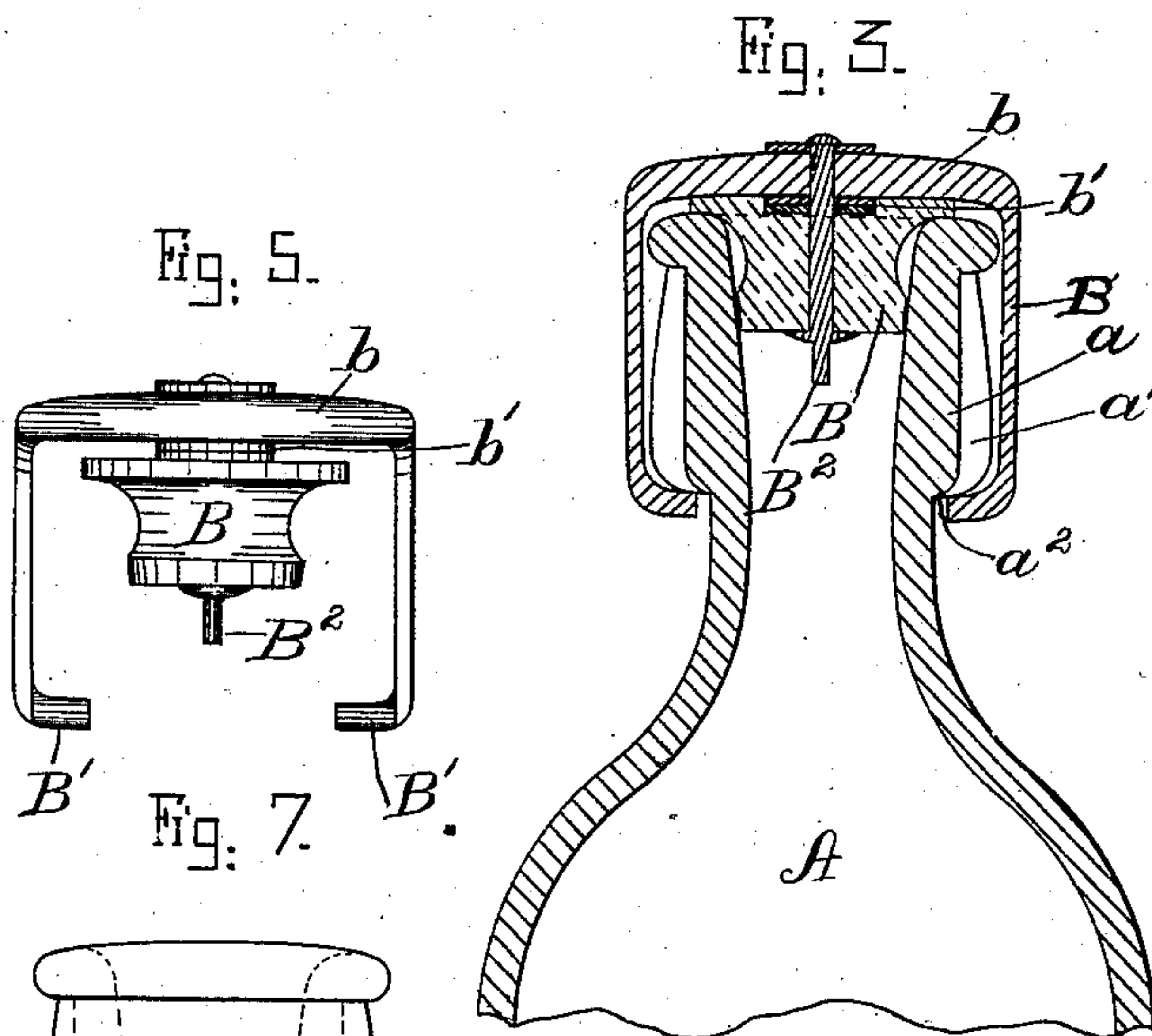
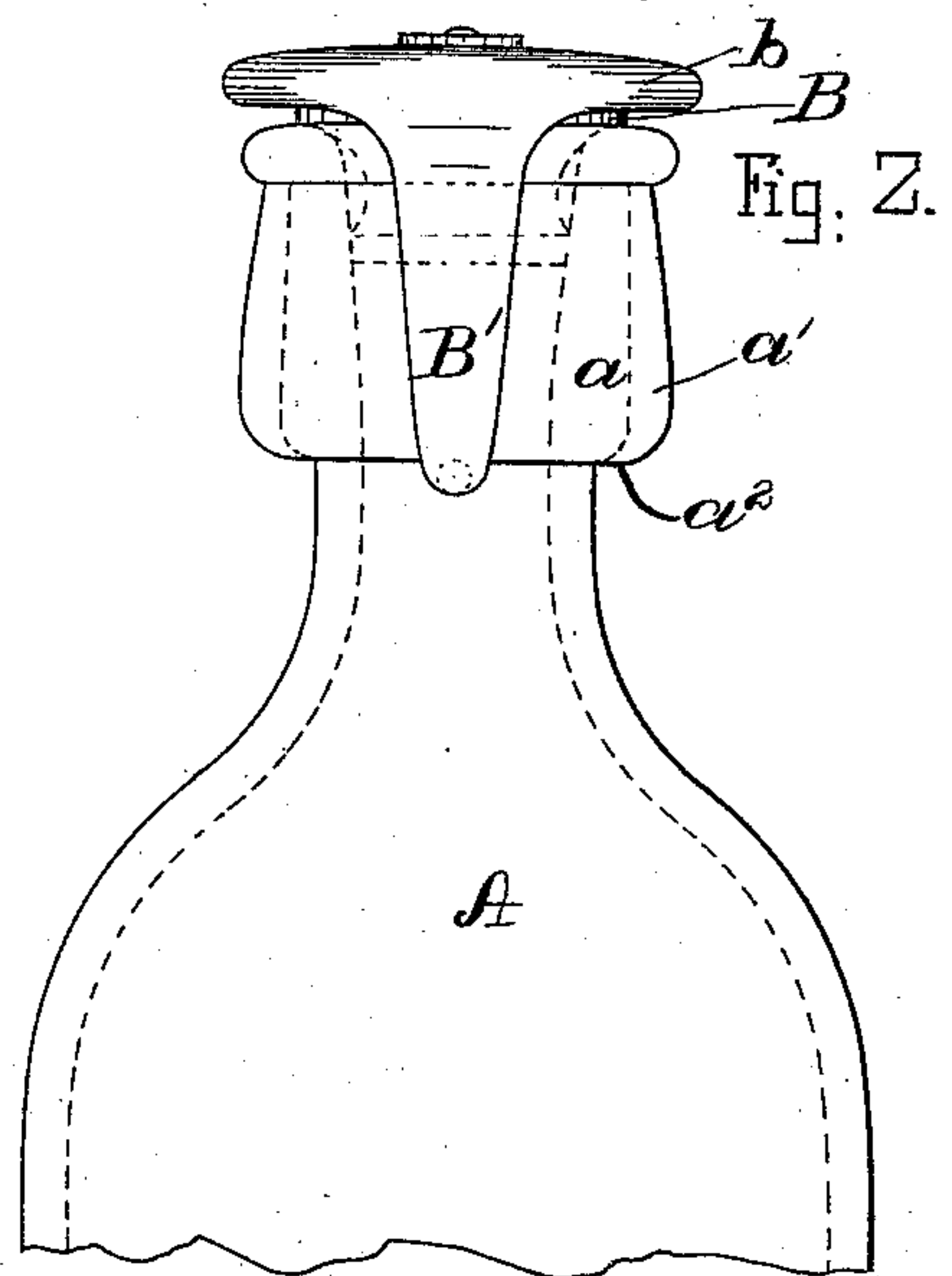
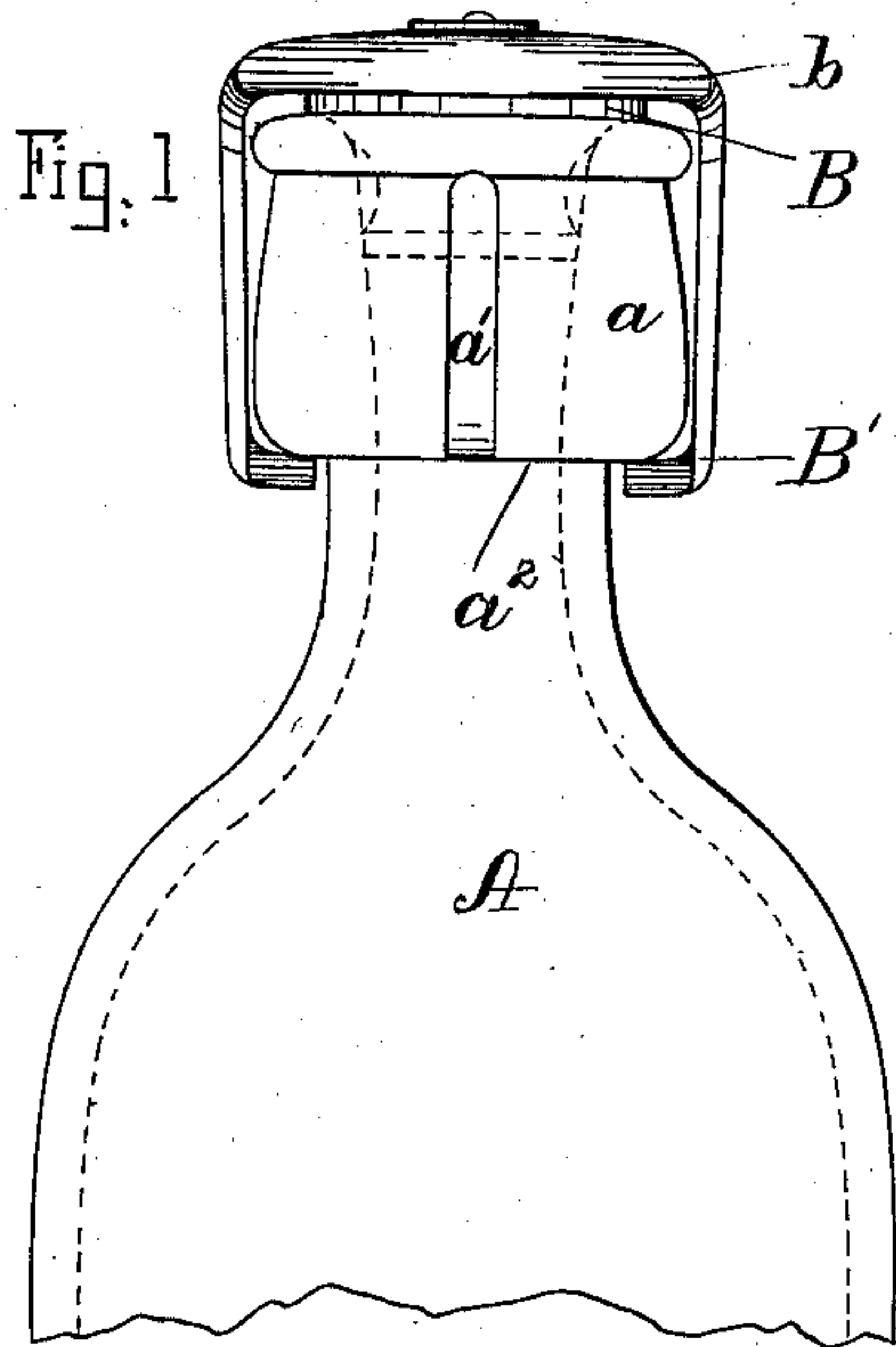
(No Model.)

G. A. FULLERTON.

COMBINED BOTTLE AND STOPPER.

No. 375,347.

Patented Dec. 27, 1887.



Witnesses.

Edw. S. Peck.
John R. Snow.

Inventor.

Geo. A. Fullerton,
J. L. Maynard
att

UNITED STATES PATENT OFFICE.

GEORGE A. FULLERTON, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF TWO-THIRDS TO WILLIAM F. DUNCAN, OF NEW YORK, N. Y., AND GEORGE H. P. FLAGG, OF BOSTON, MASSACHUSETTS.

COMBINED BOTTLE AND STOPPER.

SPECIFICATION forming part of Letters Patent No. 375,347, dated December 27, 1887.

Application filed March 25, 1887. Serial No. 232,354. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. FULLERTON, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and
5 useful Improvement in Combined Bottle and Stopper, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figures 1 and 2 are elevations of part of a
10 bottle embodying my invention, with my stopper in the throat of the bottle. Fig. 3 is a sectional view in detail of the same. Fig. 4 is a sectional detail showing the stopper removed from the throat of the bottle, but secured to the
15 bottle. Figs. 5 and 6 are different views of my stopper, and Figs. 7 and 8 are different views of a modification of my bottle.

My invention consists in the combination of a bottle whose neck is grooved lengthwise and
20 has a transverse shoulder with a stopper provided with fingers turned inwardly at their ends, and a novel means whereby the stopper is prevented from becoming detached from the bottle, as fully set forth hereinafter.

25 In the drawings, which show my invention embodied in the best way now known to me, the neck of the bottle A is enlarged at a and has the lengthwise groove a' and transverse shoulder a^2 . The shoulder a^2 may be straight, as
30 shown in Figs. 1 and 2, or inclined, as shown in Figs. 7 and 8. The bottle A is provided with a stopper, B, and carrier b , having fin-

gers B' , which correspond in number to the lengthwise grooves a' . The fingers B' are bent inwardly at their ends to slide in grooves a' 35 when the stopper is driven or drawn and to bear against the transverse shoulder a^2 when the stopper-carrier b is turned to lock the stopper in the throat of the bottle. The stopper B and fingers B' may be rigidly connected, 40 if desired; but I prefer to have the fingers and stopper loosely connected, and accordingly interpose the washer b' between the stopper B and carrier b , securing the carrier, washer, and stopper together by the pin B^2 , which is 45 made long enough to project into the mouth of the bottle when the stopper is tipped to let the contents of the bottle flow out. (See Fig. 4.) The pin B^2 then engages the neck of the bottle and serves to keep the ends of the fin- 50 gers B' in the grooves a' .

What I claim is—

Bottle A, having a lengthwise groove, a' , and transverse shoulder a^2 , in combination with stopper B, having one or more fingers, B' , 55 bent inwardly at their ends, and means, substantially such as described, for preventing the stopper-carrier from becoming detached from the bottle, substantially as and for the purpose set forth.

GEO. A. FULLERTON.

Witnesses:

EDWARD S. BEACH,
JOHN R. SNOW.