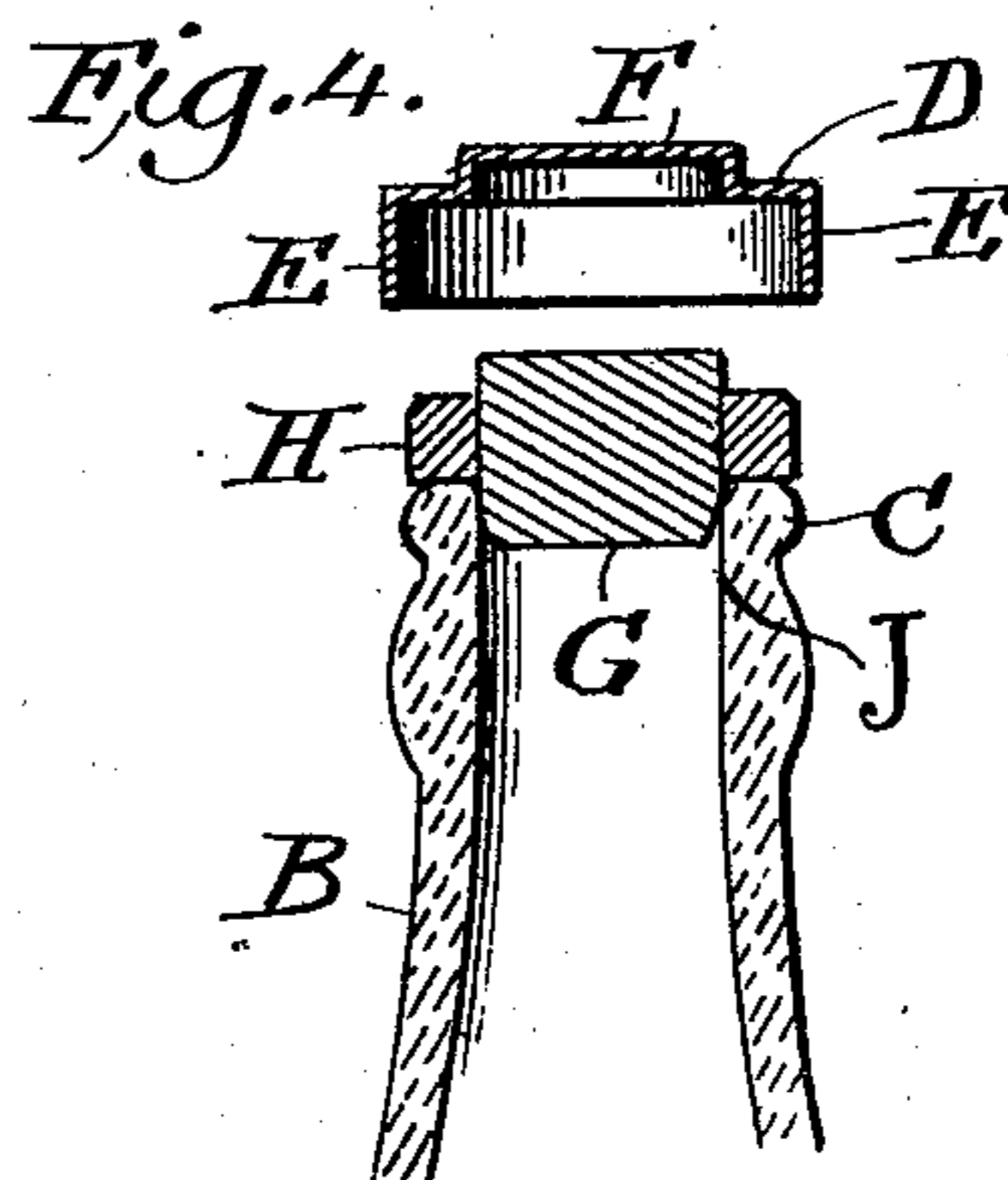
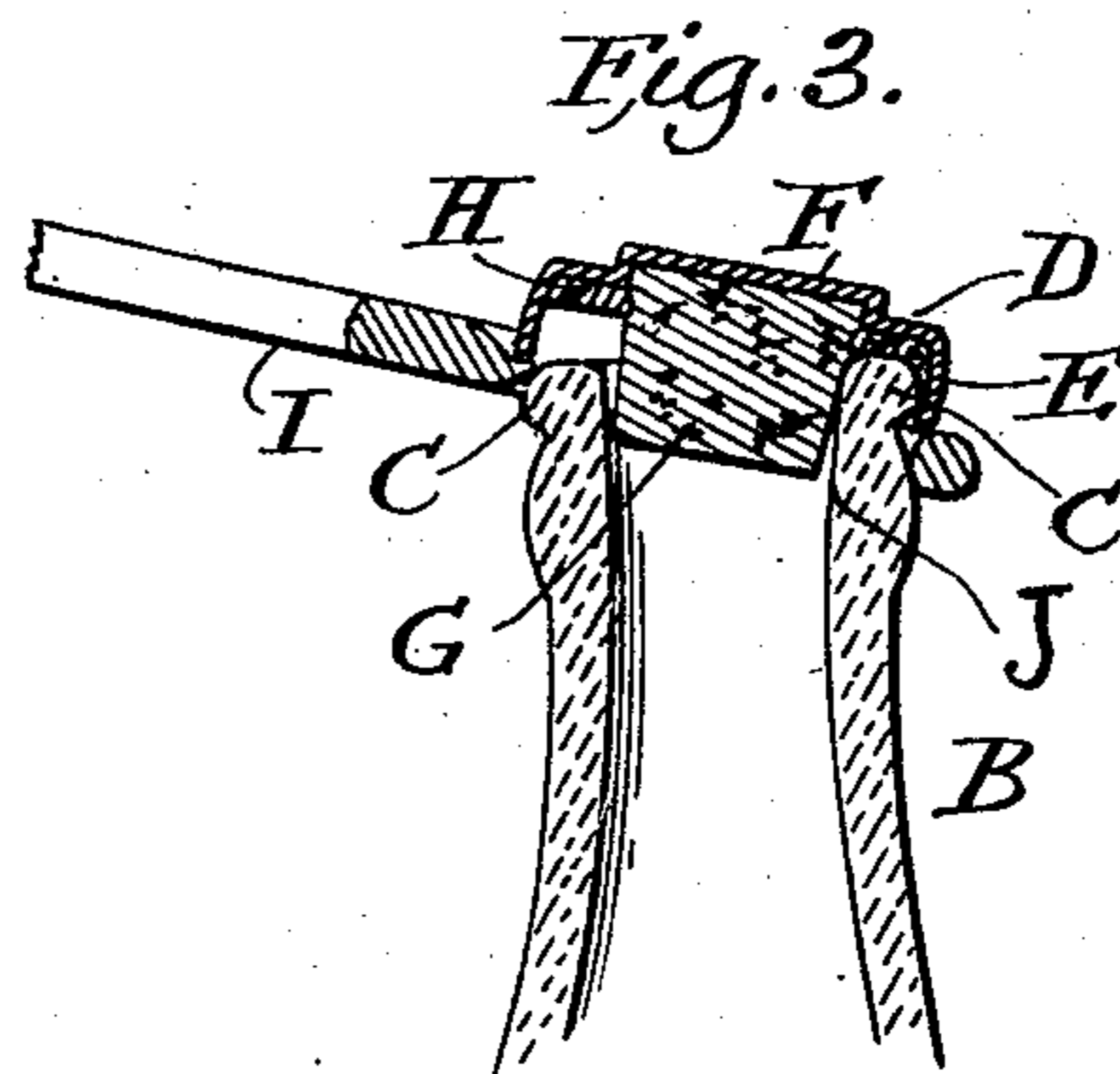
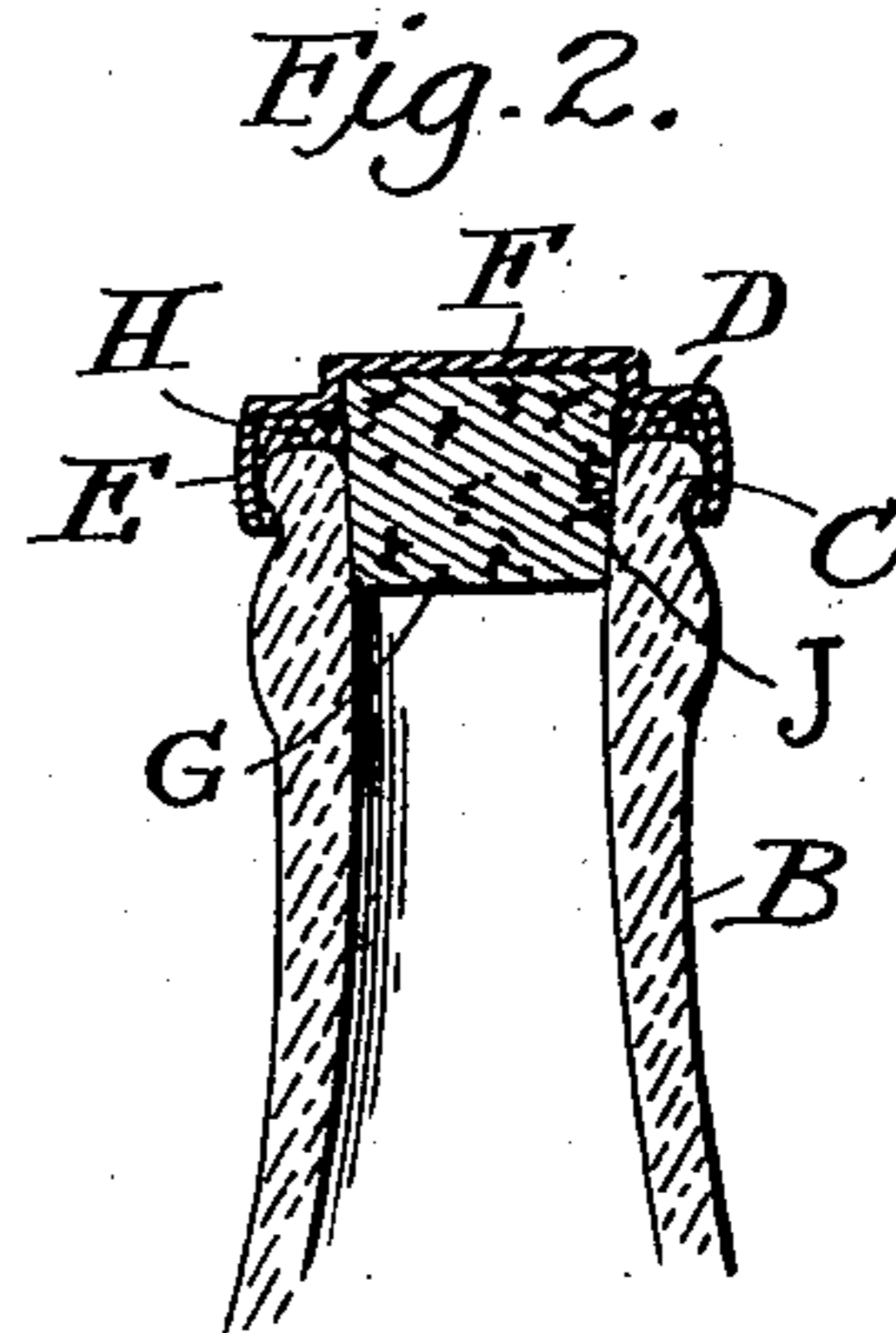
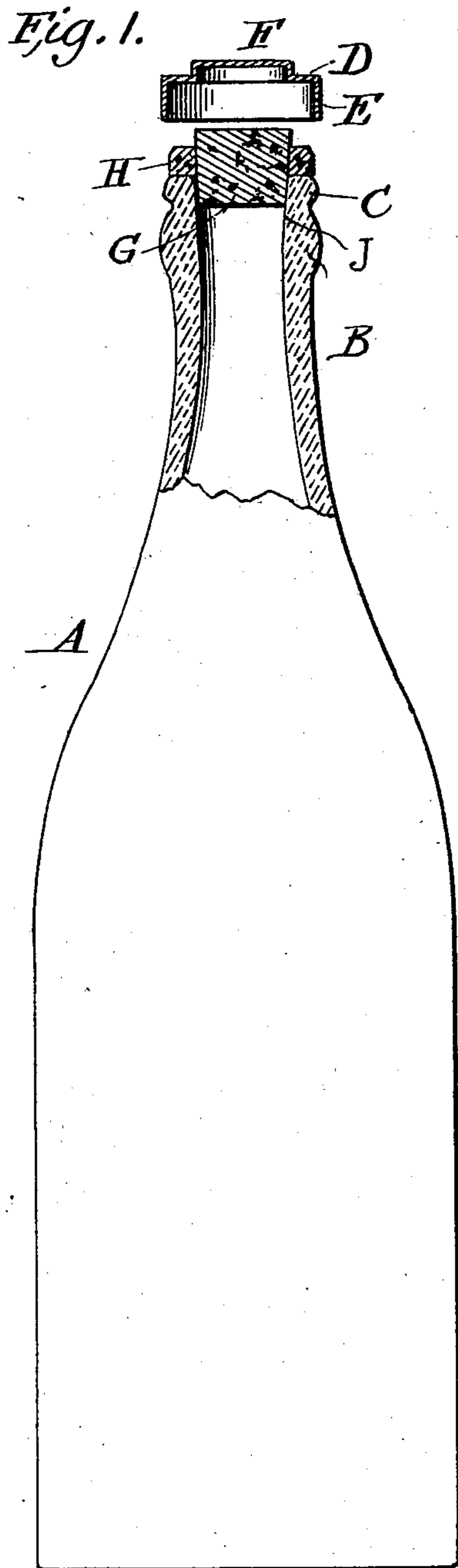


No. 861,299.

PATENTED JULY 30, 1907.

A. A. LOW.
STOPPER FOR VESSELS.
APPLICATION FILED APR. 19, 1906.



WITNESSES
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STOPPER FOR VESSELS.

No. 861,299.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed April 19, 1906. Serial No. 312,715.

To all whom it may concern:

Be it known that I, ABBOT AUGUSTUS LOW, a citizen of the United States, residing at Horseshoe, St. Lawrence county, New York State, have invented certain
5 new and useful Improvements in Stoppers for Vessels, of which the following is a specification.

My invention relates to means for "sealing vessels" and it consists in certain elements fully set out in the following specification and claims.

10 In order that those skilled in the art to which my invention relates may understand, construct and use my invention I will proceed to describe it referring to the drawings herewith forming part of this specification.

Figure 1. is a central longitudinal section of a bottle
15 with the sealing cap posed above it previous to its being closed down upon the washer and stopper in the bottle mouth. Fig. 2. is a similar view showing the sealing cap closed down upon the washer and stopper in the bottle mouth. Fig. 3. is a similar view showing the
20 sealing cap being removed from the bottle to open it, with the sealing material drawn out of the bottle mouth by the cap and its surrounding washer. Fig. 4. shows a central longitudinal section of a sealing cap and
25 washer as in Fig. 1. but showing the stopper with a straight part above and a taper at bottom, the washer surrounding the straight part thereof.

A. is the body of the bottle and B is its neck.

C. is the usual bead surrounding the bottle neck near its top.

30 D. is the top surface of the sealing cap. E. is a flange pendent from said top surface D.

F. is a raised portion of the top surface D, centrally thereof.

G. is a stopper tapered at its lower end.

35 H. is a thick washer surrounding the stopper G.

I. is a cap lifter or remover.

J. is the taper bore of the bottle mouth.

The washer H, and stopper G, are placed in the bottle as shown at Fig. 1. the washer H will then nearly extend to the depth of the cap flange E, when the cap is
40 forced over sealing material in the bottle to secure it on the bottle, the washer H is compressed upon the top of the walls of the bottle mouth, as seen at Fig. 2, thus the washer H is caused to grip the stopper G firmly, circumferentially, and when as shown at Fig. 3, the
45 cap is removed from the bottle the grip of the washer on the stopper causes it to pull the stopper out of the bore of the bottle. It is necessary that the washer should be of good thickness in order to have body enough to get a strong grip on the stopper, so that the combined grip of
50 the cap and washer may pull the stopper out.

Having now fully described my invention and the manner in which I have embodied it what I claim as my invention and desire to secure by Letters Patent is

In a sealing means for vessels the combination consisting of a metal cap having a top surface; a circumferential flange pendent from said top surface and a raised portion centrally of said top surface; a washer covered by said metal cap; a plug stopper contained within said washer,
55 all combined to operate when secured to a vessel by means of the pendent flange, to enter the said stopper in the bore of the vessel and to compress said washer tightly around the body of said stopper, whereby a sealing of the cap upon the vessel, is primarily by the plug stopper, secondarily by said washer, and thirdly by the contact of the
60 said pendent flange with the vessel neck in securing it to the vessel, and when the cap is removed from the vessel the said stopper is withdrawn by means of the grip of the said washer upon it and the said pendent flange and raised cap substantially as specified.
70

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses, this seventh day of April 1906.

ABBOT AUGUSTUS LOW.

Witnesses:

MILTON A. WARREN,

GEO. WELLING GIDDINGS.