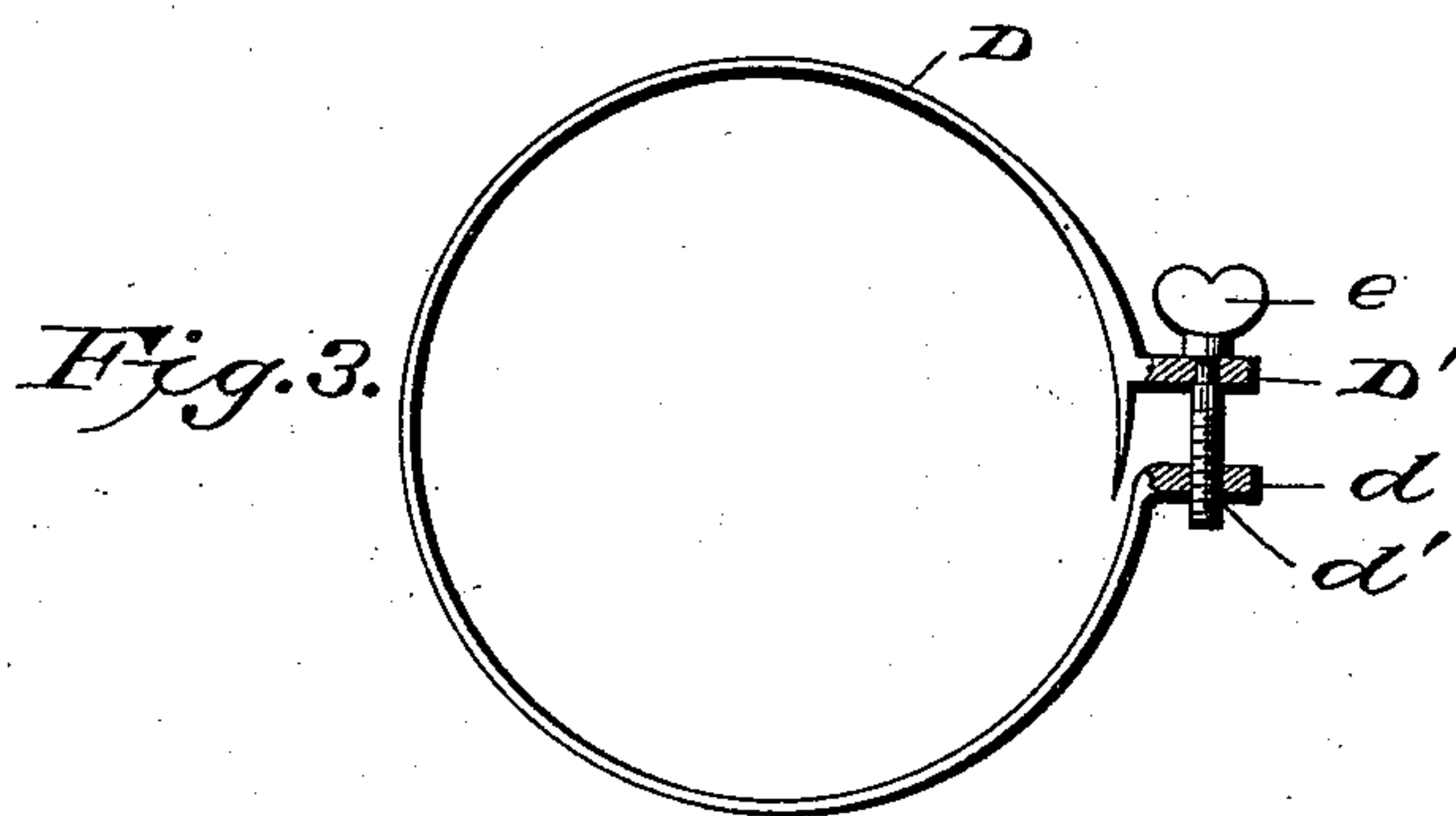
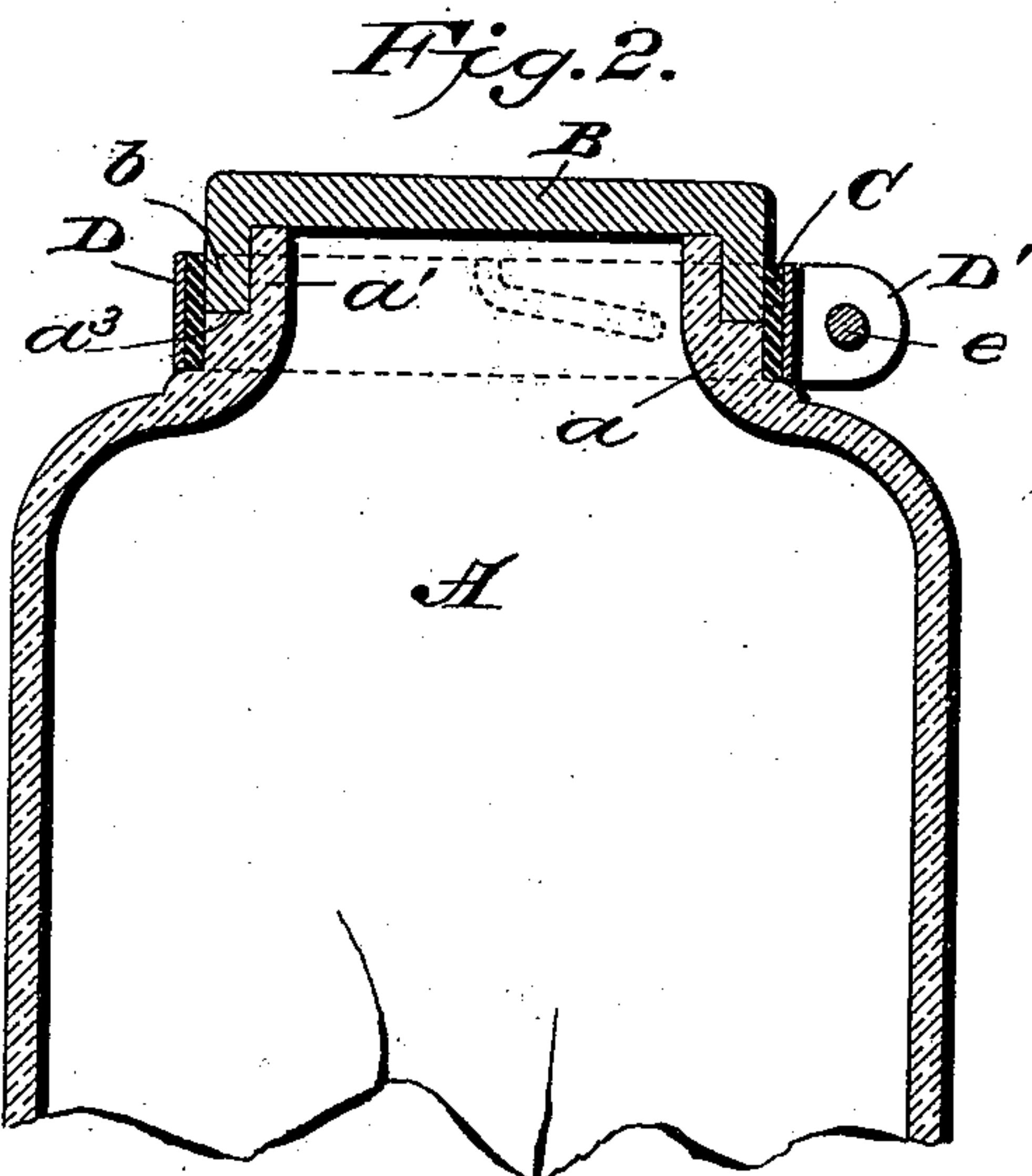
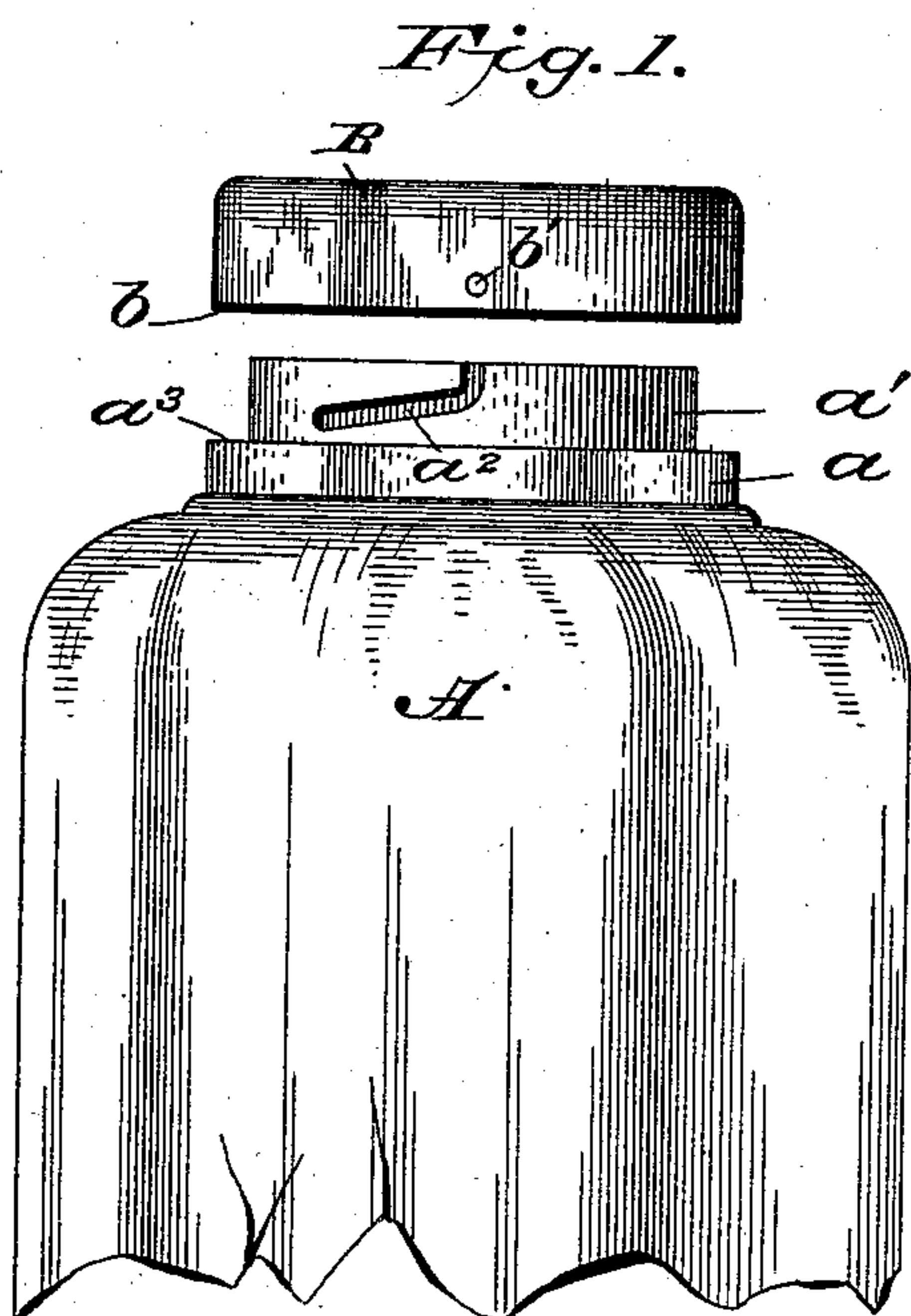


(No Model.)

H. B. BURNS.  
CLOSURE FOR FRUIT JARS.

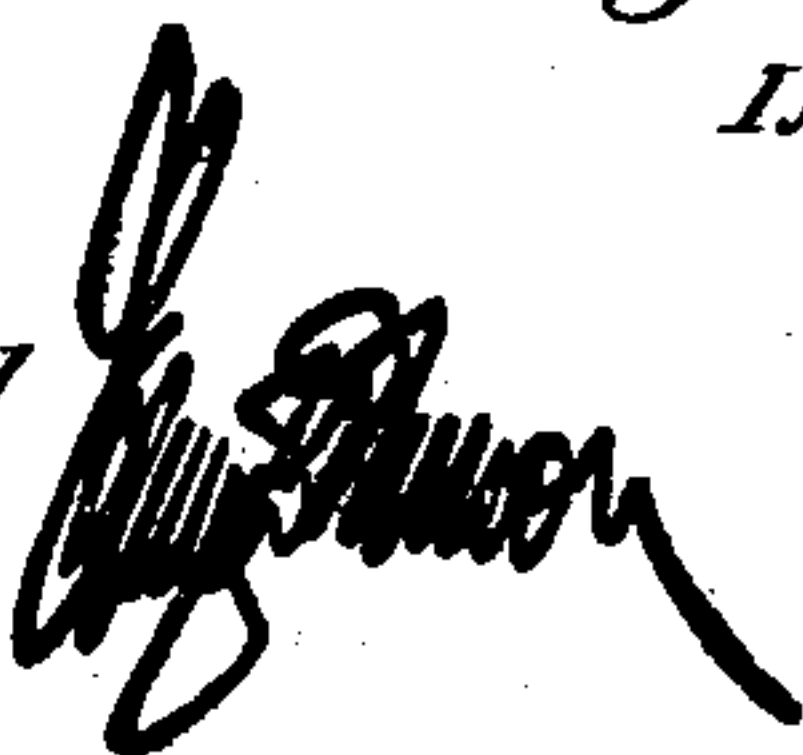
No. 550,157.

Patented Nov. 19, 1895.



WITNESSES  
L. S. Elliott.  
M. Johnson.

Henry B. Burns  
INVENTOR

by 

Attorney



# UNITED STATES PATENT OFFICE.

HENRY B. BURNS, OF EAU CLAIRE, WISCONSIN, ASSIGNOR OF ONE-HALF TO  
FREDERICK C. BARLOW AND EDSEY A. MUNNS, OF SAME PLACE.

## CLOSURE FOR FRUIT-JARS.

SPECIFICATION forming part of Letters Patent No. 550,157, dated November 19, 1895.

Application filed March 28, 1895. Serial No. 543,554. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY B. BURNS, a citizen of the United States of America, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented certain new and useful Improvements in Closures for Fruit-Jars; 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.

This invention relates to improvements in closures which are designed primarily for fruit-jars, the object being to provide a simple, cheap, and efficient means for fastening the top or cap of a fruit-jar to the body portion thereof and sealing the joint.

The invention consists in providing the neck of the fruit-jar with inclined recesses with which engage pins carried by the cap of the jar, said cap being of such construction that the interior of the side walls will correspond with the exterior of the neck of the jar, whereby the joint can be covered by an elastic band or gasket which is held securely in place not only by its own elasticity, but also by a covering-band or clamping-ring, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side view of a fruit-jar closure constructed in accordance with my invention, the cap or cover being removed. Fig. 2 is a sectional view, and Fig. 3 a plan view, of the clamping-ring detached.

A designates the body of the fruit-jar having a neck  $a$ , which is provided with an upper extension  $a'$ , said extension having a groove  $a^2$  therein comprising a vertical and an inclined portion, as shown. It will be noted that the particular construction of the neck of the jar presents a circumferential shoulder  $a^3$ .

B designates the cover or cap, which has a depending rim  $b$ , adapted to fit snugly over the upper portion  $a'$  of the neck of the jar and rest upon the shoulder  $a^3$  thereof. The

depending rim of the cover or cap is provided with inwardly-projecting pins  $b'$ , which engage the grooves  $a^2$  in the extended part of the neck of the jar, so that when turned into the inclined portion of said grooves the lower edge of the rim will be brought in close contact with the shoulder  $a^3$ . So much of the construction hereinbefore particularly described I do not claim to be broadly new, as covers or caps have been secured to boxes or the necks of jars in an analagous manner; but said securing means by itself will not answer satisfactorily for fruit-jars or where it is desired that an air-tight joint should exist. Therefore in carrying out my invention I make use of a rubber gasket C, which is of sufficient width to lie over the joint between the cap and neck of the jar and by its adhesion will prevent rotation of one part upon the other, and to hold this gasket securely in place and protect the outer edges from the effect of the atmosphere I place over the same a clamping band or ring D, which is made up of suitable thin metal rolled to provide one end of increased thickness, said end  $d$  being bent outward and provided with a threaded aperture  $d'$ . Adjacent to the other end of the band is formed on or attached to by means of solder or brazing an angular piece  $D'$ , which carries a thumb-screw  $e$ , this thumb-screw having a reduced shank which retains it permanently upon the part  $D'$ , but permits it to turn freely thereon, the threaded end of the screw being adapted to engage with the threaded aperture  $d'$ . The part  $D'$  is secured at a suitable distance from the end of the band, so that when in use the parts will overlap, as shown in Fig. 3. After the cap has been placed upon the neck of the jar and turned the rubber or elastic gasket C is placed over the joint and the clamping band or ring is then placed over the gasket and by turning the thumb-screw the gasket can be forced upon the jar, so as to hermetically seal the same, the metal band covering the rubber gasket to thoroughly protect the same, and the frictional contact exerted by the band will hold the cap securely in position.

By the construction hereinbefore described the rubber will not come in contact with any part of the interior of the fruit-jar, so that the contents will not be affected thereby.



The device is cheap and simple in construction and effective in operation, and the projecting portions of the band are so small as not to project beyond the body portion of the jar to interfere with the packing of the same.

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

1. In combination with a fruit jar having  
10 a neck with a reduced portion to present a shoulder, and a cap adapted to cover the reduced portion of the neck and bear upon the shoulder, of a rubber gasket adapted to lie over the joint between the cap and neck of the  
15 jar, and a clamping band having outwardly-projecting portions, with which a thumb-screw engages, one end of the band projecting beyond the part which carries the thumb-screw, substantially as shown and for the purpose  
20 set forth.

2. In combination with a fruit jar having

a neck with a reduced upper portion provided with inclined grooves or slots, of a cap or cover having pins which engage with the inclined grooves or slots, the lower edge of the  
25 cap or cover bearing upon the shoulder formed by the reduced portion of the neck; together with a gasket C placed over the joint between the cap and neck of the jar, a clamping band or ring placed over the gasket, the  
30 band having outwardly-projecting portions *d* and *D'*, and a thumb-screw carried by the portion *D'* and engaging a threaded aperture in the portion *d*, substantially as shown and for the purpose set forth. 35

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

HENRY B. BURNS.

Witnesses:

HENRY McBEIEN,

JAS. RANDLE.