

No.800,891.

PATENTED OCT. 3, 1905.

S. ADLAM.  
JAR CLOSURE.

APPLICATION FILED APR. 11, 1904.

Fig. 1.

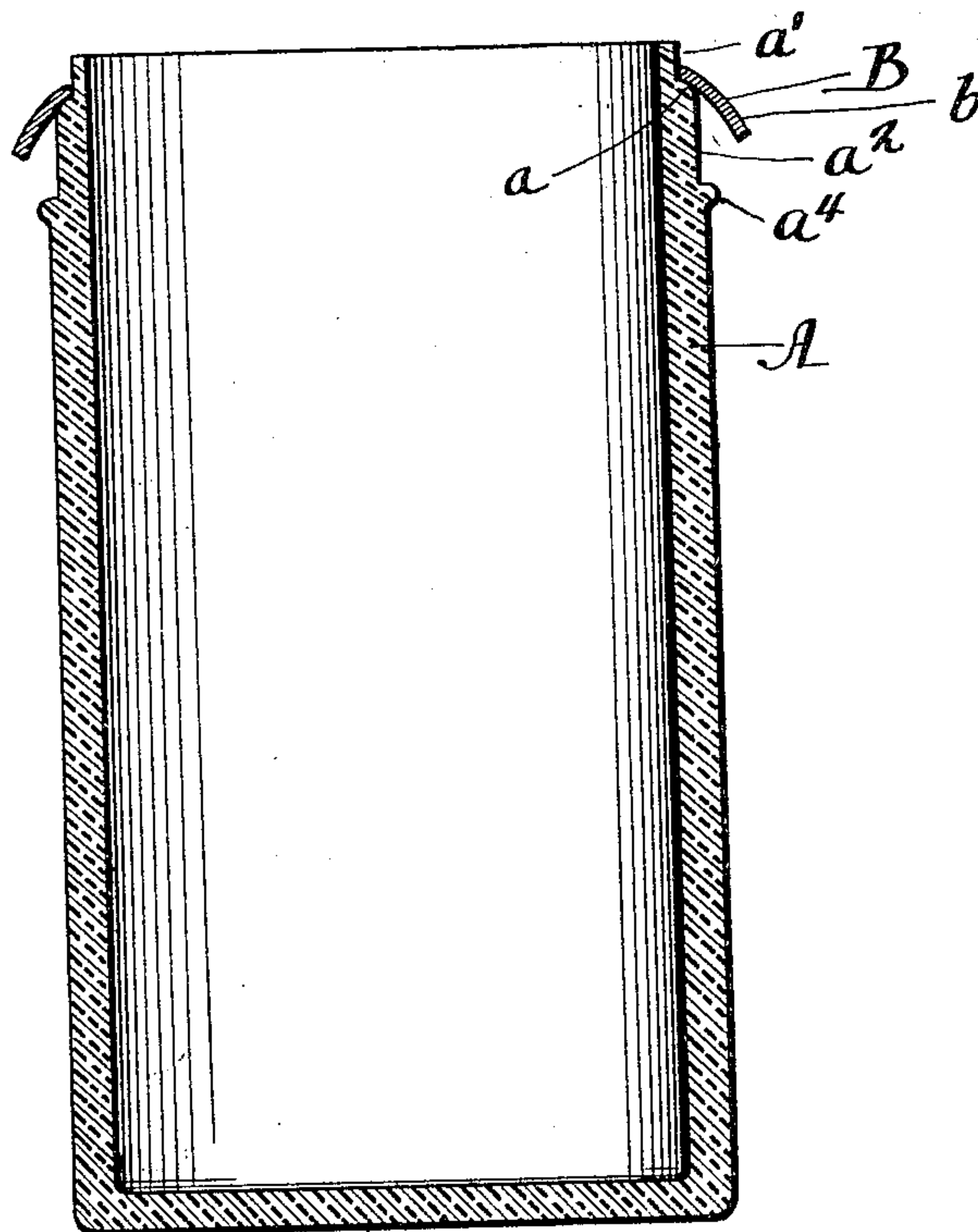


Fig. 2.

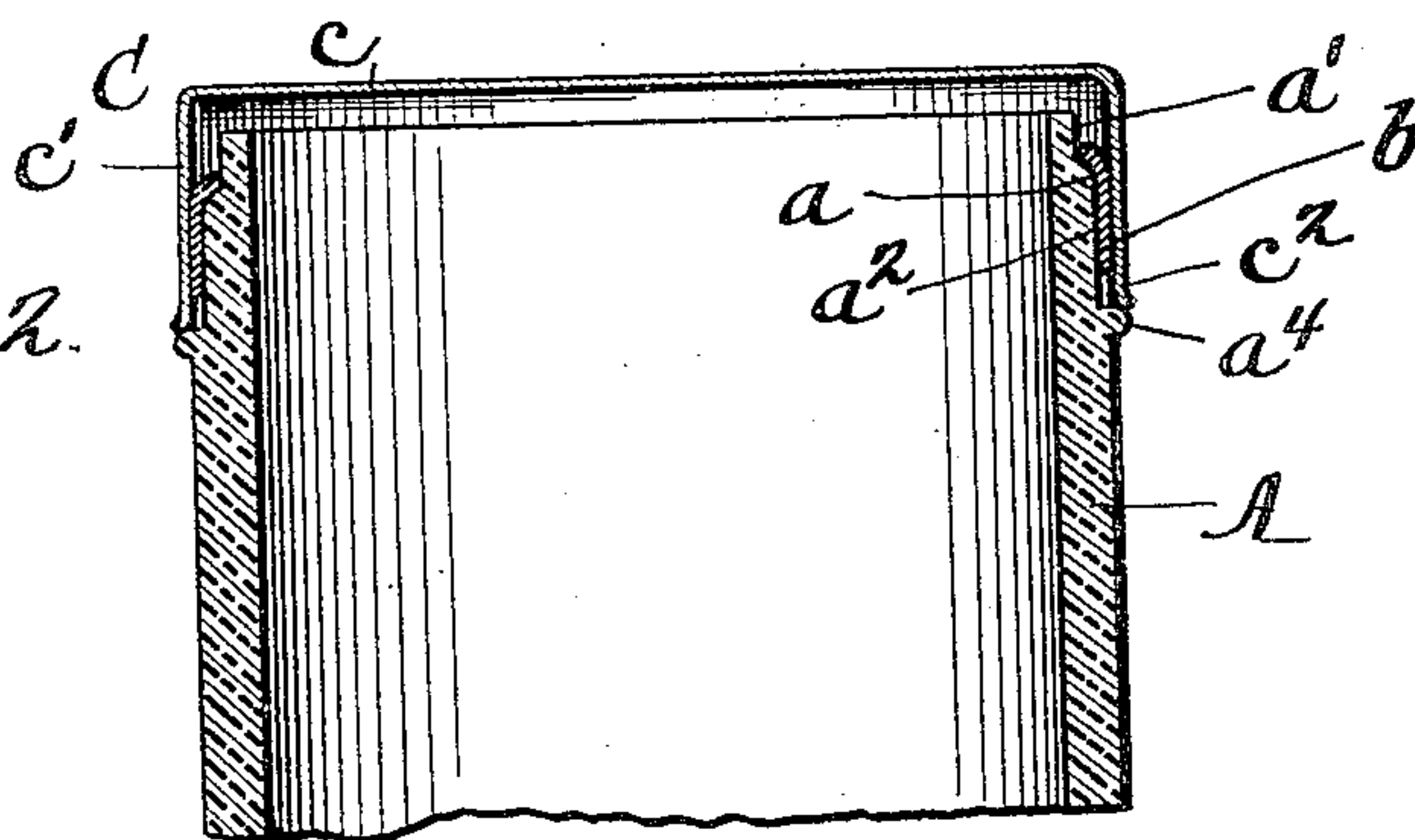
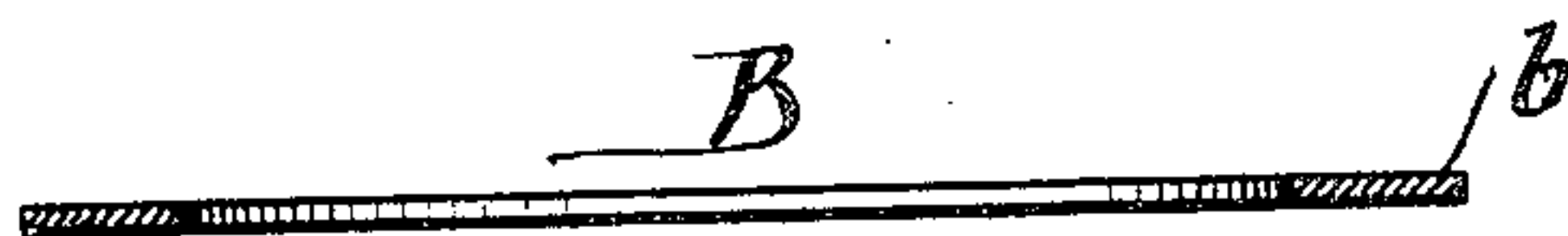


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## JAR-CLOSURE.

No. 800,891.

Specification of Letters Patent.

Patented Oct. 3, 1905.

Application filed April 11, 1904. Serial No. 202,483.

*To all whom it may concern:*

Be it known that I, SAMUEL ADLAM, a resident of the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Jar-Closures, of which the following is a full, clear, and exact description.

The invention relates to means for sealing jars or bottles and designs to provide a closure which effectively seals the vessel, which can be readily applied, and which can be produced at a low cost.

The invention consists in the several novel features hereinafter set forth, and more particularly defined by claims at the conclusion hereof.

In the drawings, Figure 1 is a vertical section of a jar embodying the invention, the cap being removed. Fig. 2 is a similar view, the cap being shown in position to close the vessel. Fig. 3 is a detail vertical section of the elastic washer.

A denotes a jar adjacent the mouth or open end of which a ledge or annular shoulder  $a$  is formed, which constitutes a seat for the inner portion of an elastic washer B. For convenience in manufacture and to permit the washer to be readily placed around the mouth portion of the jar a reduced end  $a'$  is formed above shoulder  $a$ . Below shoulder  $a$  the jar is formed with a cylindrical portion  $a''$ , which forms an elongated vertical or longitudinal surface against which the outer portion of washer B is pressed.

The invention designs to employ a flat axially thin annular washer normally of the form shown in Fig. 3, because elastic washers of this form can be produced at a much lower cost than other forms of washers—*e. g.*, those which are circular in cross-section. The inner diameter of washer B is less than the diameter of seat  $a$  of the jar, so the inner edge of the washer will fit snugly around said seat and hug the jar, as seen in Figs. 1 and 2. The washer is of sufficient width in cross-section to provide an outer edge  $b$ , which will project outwardly from the jar or seat  $a$ , as shown in Fig. 1, and which is adapted to be pressed against peripheral portion  $a''$  of the jar.

A cap C, usually formed of sheet metal, comprises a top  $c$  and a vertical flange  $c'$ , adapted to extend around and engage the flat outer face of washer B to firmly press the

other face of the washer against peripheral surface  $a''$  of the jar. A flared edge  $c''$  of cap-flange  $c'$  facilitates passage of the cap into position around washer B and prevents cutting of the washer by the lower edge of said flange. The cap fits firmly around the outer portion of the washer and is thus frictionally held in position and against longitudinal movement.

A shoulder  $a'$  may be formed on the jar to vertically position the cap. Thus it will be seen that the cap presses the outer portion of the washer against a peripheral seat, by which a relatively long sealed surface or seal is formed. The inner edge portion fitting around seat  $a$  holds the washer against axial downward movement with the cap.

The invention possesses several important advantages. By use of a flat axially thin elastic washer the closure can be produced at a low cost. Furthermore, the flat thin washer is pressed around a relatively long vertically-extending surface to provide a seal or sealed surface of considerable area and is also held snugly against a shoulder or seat  $a$ .

The cap can be readily placed in and held in position by forcing the cap downwardly, can be removed by reverse movement, and is held without use of interlocking means between the jar and the cap. The closure in its entirety provides an effective seal and can be produced at a very low cost.

The invention is not to be understood as restricted to the precise details shown and described, since these can be modified by the skilled mechanic without departing from the spirit and scope of the invention.

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

1. The combination with a jar having a cylindrical peripheral surface near its upper end, a reduced upper end, and a shoulder between said end and said surface, of a normally flat axially thin elastic washer having its inner edge portion extending around said shoulder to hold the washer against longitudinal movement, and a cap having a flange lying parallel with said peripheral surface and adapted to press the outer portion of the washer against the peripheral surface.

2. The combination of a jar having a cylindrical peripheral surface near its upper end



and a seat or shoulder above said surface, a normally flat axially thin elastic washer having its inner edge portion extending around said shoulder, and a cap having a vertical  
5 flange lying parallel with said peripheral surface and adapted to press one surface of the washer against said peripheral surface and

frictionally engage the other surface of the washer whereby the cap will be held in position to close the jar.

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Witnesses:

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