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Patented Apr. 29, 1902.

H. F. WEBB.

JAR CLOSURE AND FASTENER.

(Application filed Nov. 5, 1901.)

(No Model.)

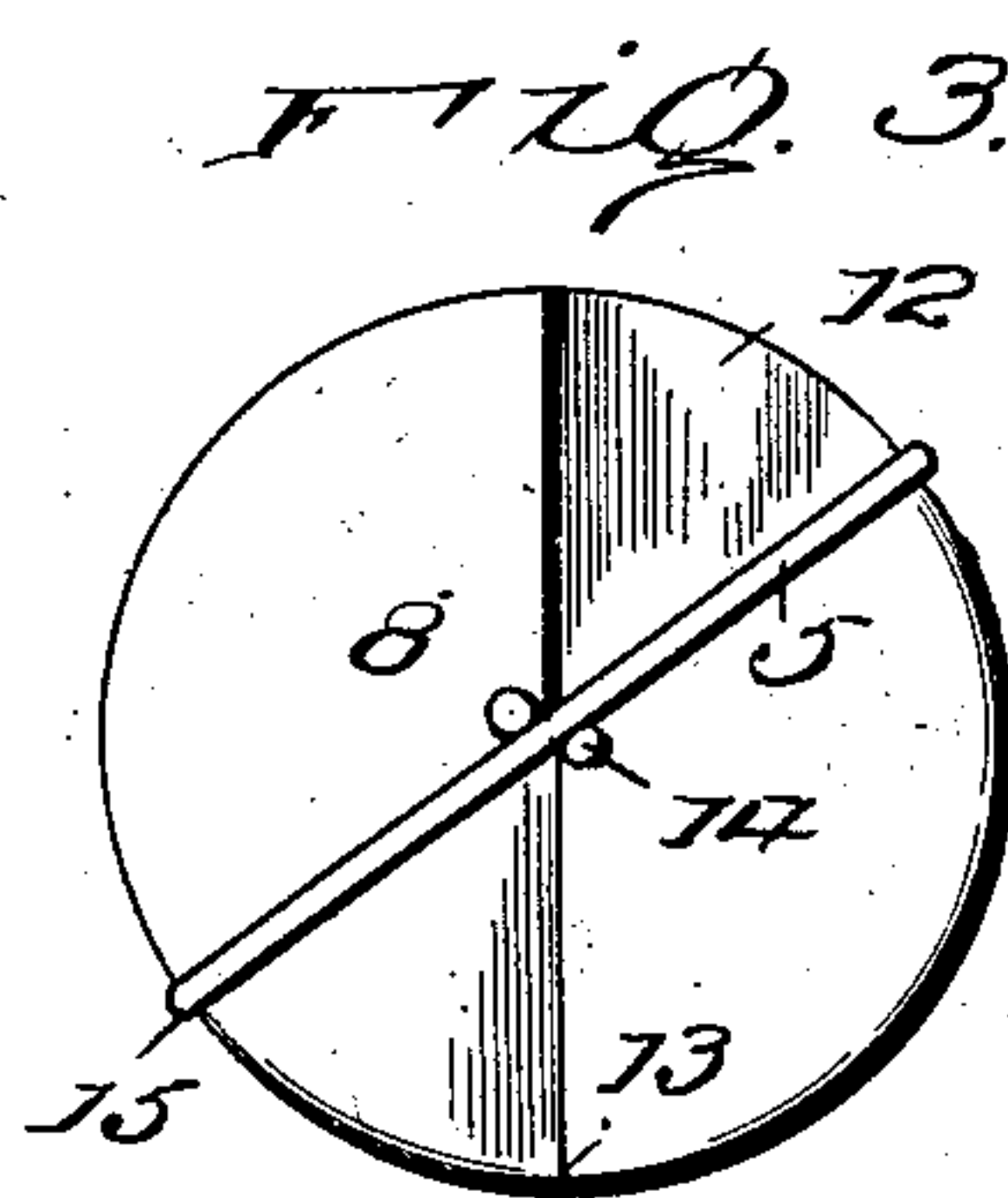
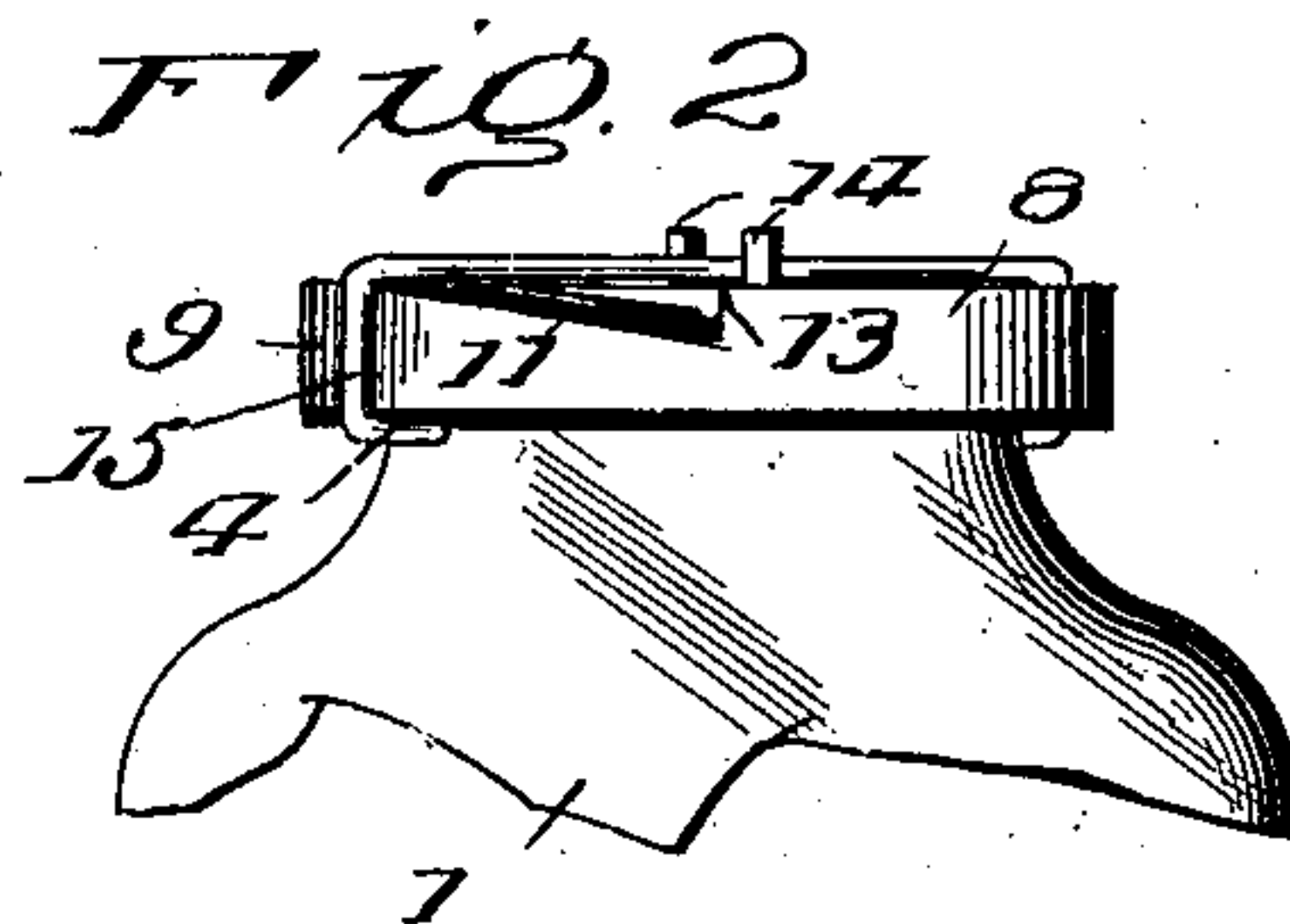
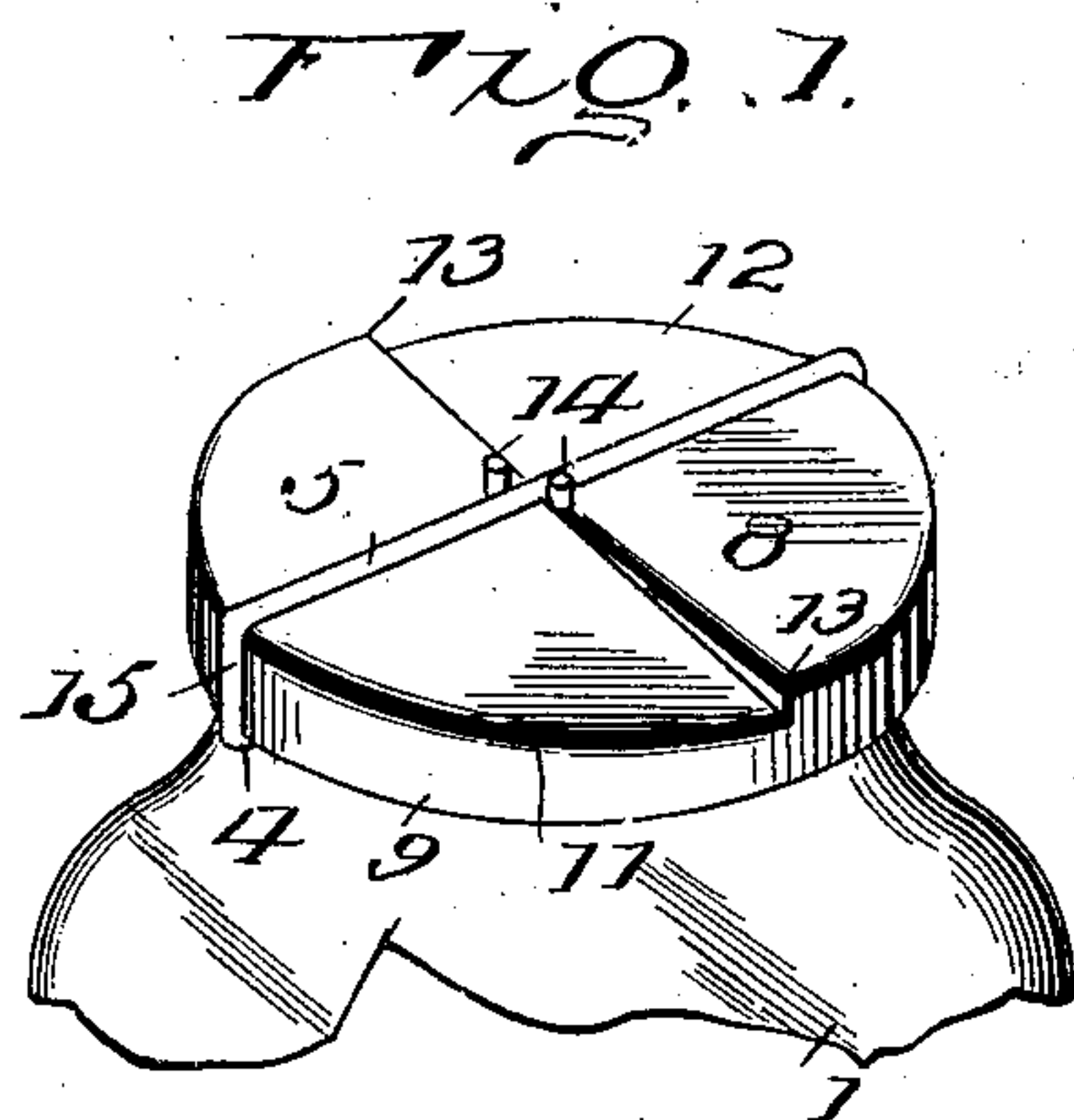


FIG. 4.

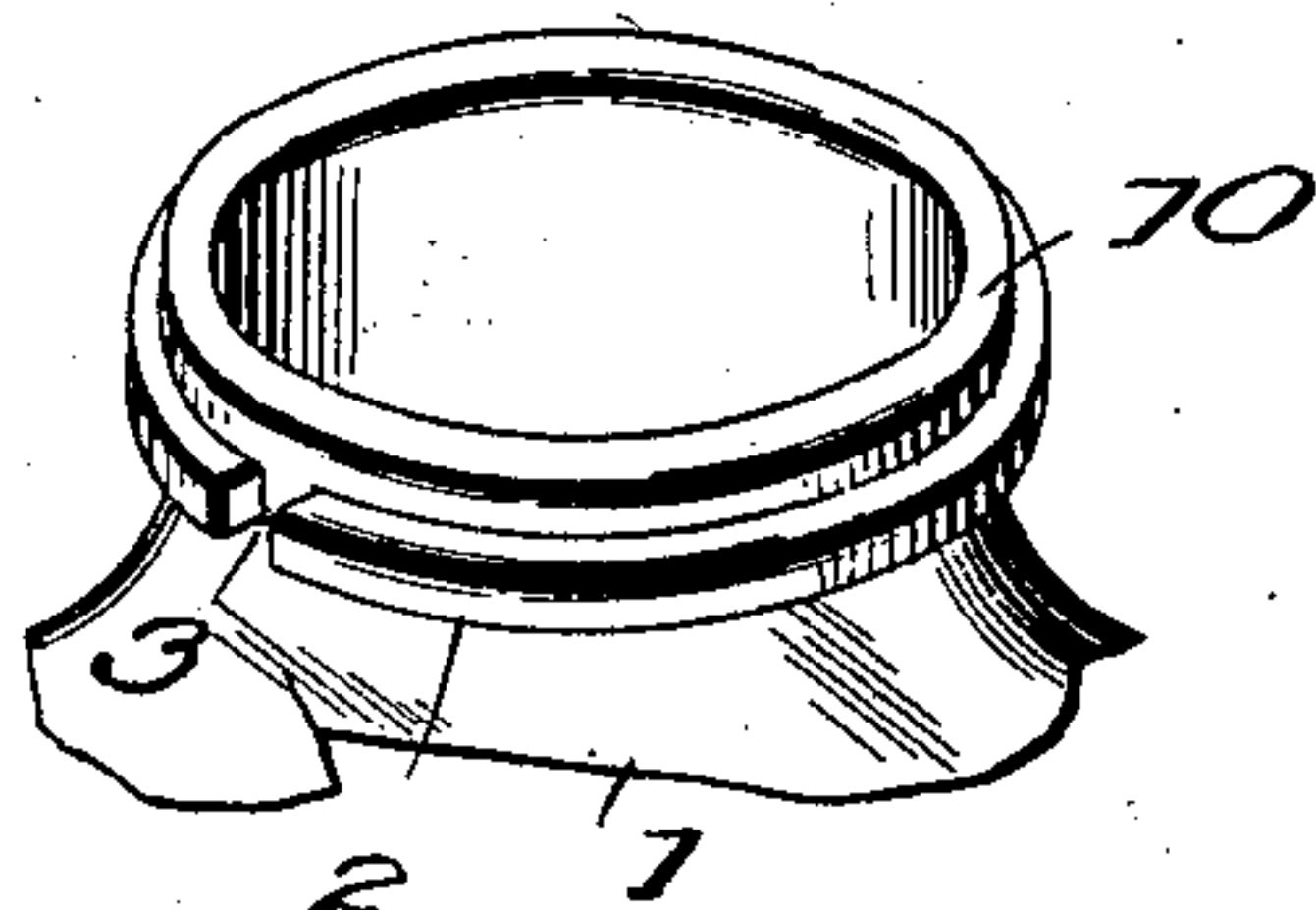


FIG. 5.

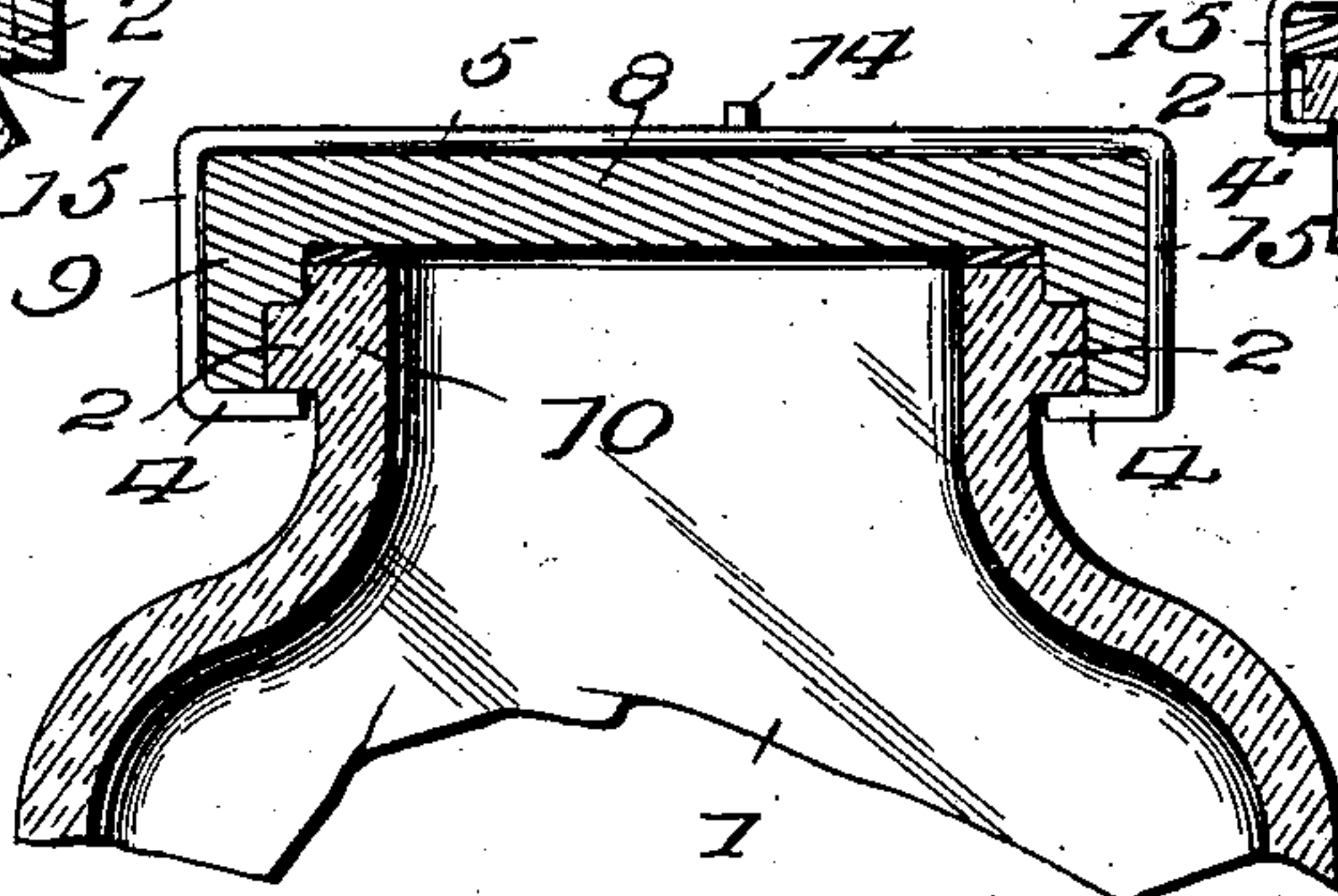
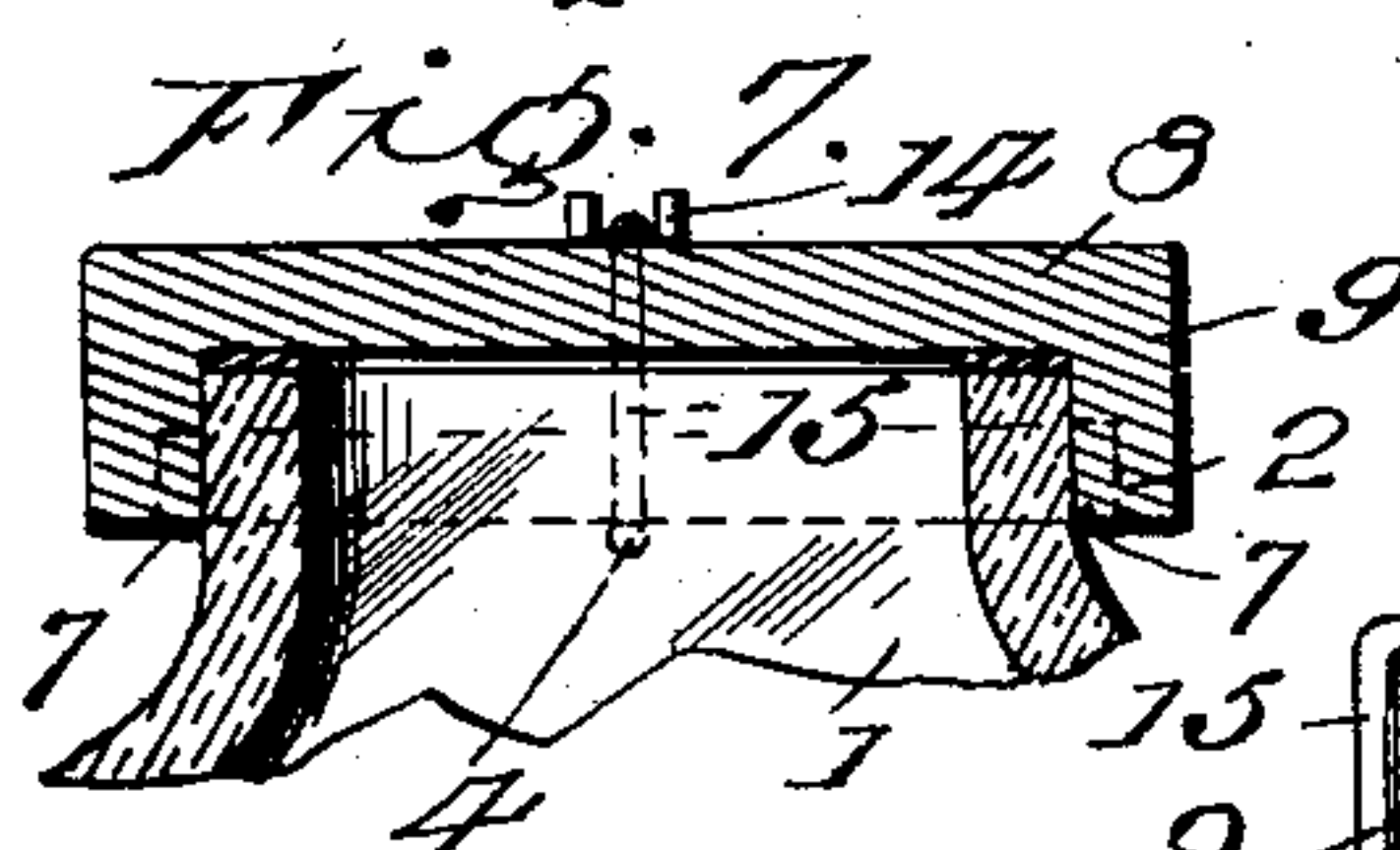
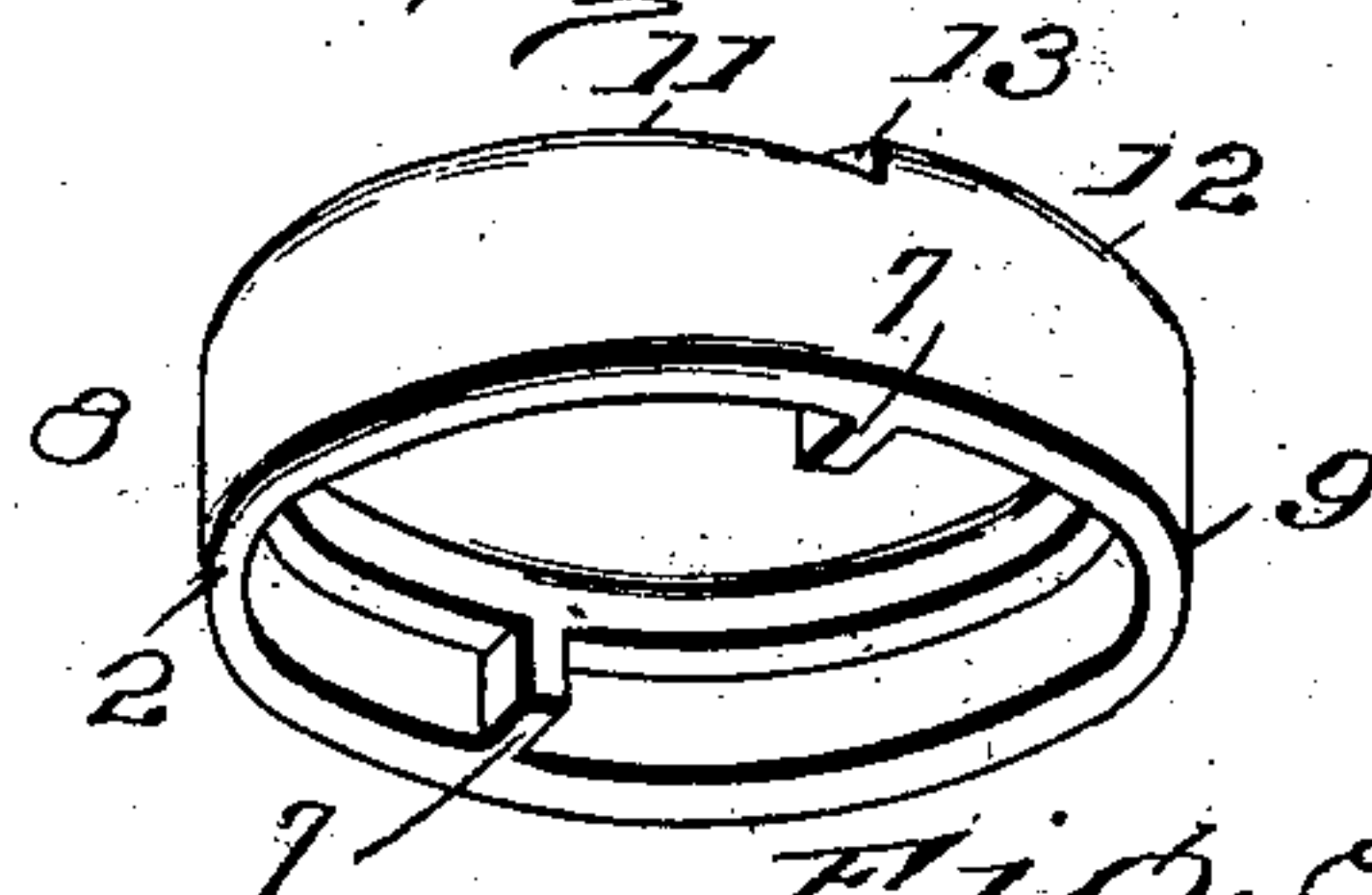
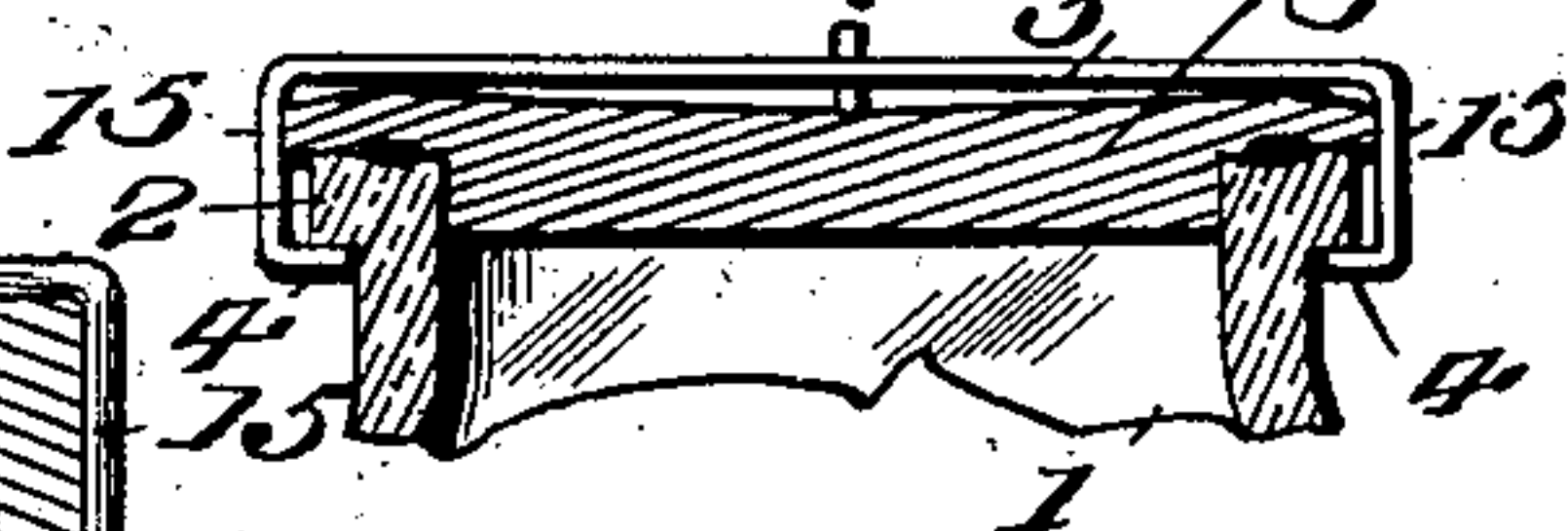


FIG. 7.



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UNITED STATES PATENT OFFICE.

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JAR CLOSURE AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 699,046, dated April 29, 1902.

Application filed November 5, 1901. Serial No. 81,213. (No model.)

To all whom it may concern:

Be it known that I, HENRY FITZROY WEBB, a citizen of the United States, residing at Coudersport, in the county of Potter and State of Pennsylvania, have invented certain new and useful Improvements in Jar Closures and Fasteners; 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.

This invention has relation to means of novel construction for closing a jar, bottle, or like vessel and securing the closure when in place.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the upper portion of a jar embodying the invention. Fig. 2 is a side view thereof. Fig. 3 is a top view. Fig. 4 is a perspective view of the upper end of the jar, the closure being removed. Fig. 5 is a perspective view of the closure as seen from the inner side. Fig. 6 is a detail section. Fig. 7 is a view similar to Fig. 6, on a smaller scale, showing the interlocking lugs in section. Fig. 8 is a section showing a modified form of closure.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The jar, bottle, or other receptacle 1 may be of any form and size and is provided near its mouth with an outer rib or flange 2, notched at diametrically opposite points, as indicated at 3, to admit of the bent ends 4 of the wire fastener 5 passing by the rib or flange 2 when placing said fastener in position or when removing it from the receptacle. The notches

3, provided near the upper end of the jar at opposite points, are adapted to receive projections 7 at the inner side of the closure 8 to prevent turning of said closure when fitted to the jar or receptacle.

The closure 8 may be of glass, porcelain, or other material and has the form of a cap, the rim 9 being constructed upon its inner side to embrace the rib 2 and end portion of the jar or receptacle projecting beyond the said rib. A rubber gasket or like packing-ring is interposed between the closure 8 and upper end of the jar to make a tight joint and hermetically seals the jar or package when the closure is fitted thereto and properly secured by the fastener 5. The top side of the closure or cap 8 is formed to provide cam portions 11 and 12, upon which the end portions of the wire fastener 5 ride, so as to press the cap or closure tight upon the receptacle. The faces of the cam portions 11 and 12 extend to about one-half of the closure, and a shoulder 13 is formed at the beginning of one cam and at the rear end of the other cam, and these shoulders 13 are diametrically disposed and constitute stops to properly position the fastener 5 when fitting the closure to the receptacle. A pair of studs 14 is located about at the center of the cap and receives between them the horizontal portion of the fastener 5, and these studs serve to hold the fastener in proper position when turning it either to tighten or to loosen the cap. The studs 14, as well as the interlocking projections 7, are formed with the cap or closure.

The wire fastener 5 is of bail form, the horizontal portion being adapted to extend over the closure 8 and its bent ends 15 being adapted to embrace the sides of the said closure and the bent terminals 4 adapted to engage under the rib or flange 2, so as to hold the cap securely and firmly in place. The fastener has the central portion of its horizontal part passed between the studs 14 and is prevented from displacement thereby when the cap is removed from the receptacle or when turning the fastener to draw the cap close upon the receptacle.

When it is required to close a jar, bottle,

or other receptacle embodying the invention, the cap is placed thereon in such a manner as to admit of the interlocking projections 7 entering the notches 3 after the bent terminals 4 of the wire fastener have passed there-
 5 through, after which the fastener is turned, the cap being held from turning by the interlocking parts 3 and 7. As the fastener is turned it rides upon the cam portions 11 and
 10 12 of the closure and forces the latter tight upon the receptacle and at the same time prevents displacement thereof. The cam-faces 11 and 12 being of very slight inclination and the friction between the wire fastener and
 15 the cap and the rib 2 being comparatively great, all tendency of the wire fastener to slip when released is wholly obviated and security assured.

In Fig. 8 a different form of closure is
 20 shown, the central part entering the mouth of the jar and the offstanding annular rim projecting over the edge thereof, the other parts being substantially the same as herein described.

25 Having thus described the invention, what is claimed as new is—

1. In combination with a jar or like receptacle having an outer rib or flange at its upper end, a closure for the said receptacle hav-
 30 ing oppositely-disposed cam portions upon its outer or top side and interlocking means between the receptacle and closure to prevent turning of the latter, a fastener of bail form having bent terminal portions to engage un-
 35 der the aforesaid rib and adapted to have its horizontal portion ride upon the aforemen-

tioned cam portions of the closure, substan-
 tially as set forth.

2. In combination, a jar or like receptacle
 40 having an outer rib or flange at its upper end and having notches in said flange at diametrically opposite points, a closure having op-
 positely-disposed cam portions upon its outer or top side, interlocking projections forming
 45 a part of the closure and adapted to enter the aforesaid notches when the closure is in place, and a fastener of bail form provided
 with bent terminals to pass through the notches of the aforementioned rib and adapt-
 50 ed to have its horizontal portion ride upon the cam portions of the closure, substantially as specified.

3. In combination, a jar or like receptacle
 55 having an outer rib or flange at its upper end notched at diametrically opposite points, a closure having interlocking projections to en-
 ter the said notches of the rib and having a pair of centrally-disposed studs upon its outer
 or top side and having oppositely-disposed
 60 cam portions, and a fastener of bail form having its horizontal portion fitted between the
 said studs and adapted to have its bent ter-
 minals pass through the notches of the afore-
 mentioned rib and engage under the latter,
 65 substantially as set forth.

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

HENRY FITZROY WEBB. [L. S.]

Witnesses:

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 FRANK A. FRENCH.