

No. 745,747.

PATENTED DEC. 1, 1903.

J. V. WASHBURN.

STUD MEMBER.

APPLICATION FILED MAR. 30, 1903.

NO MODEL.

Fig. 2.

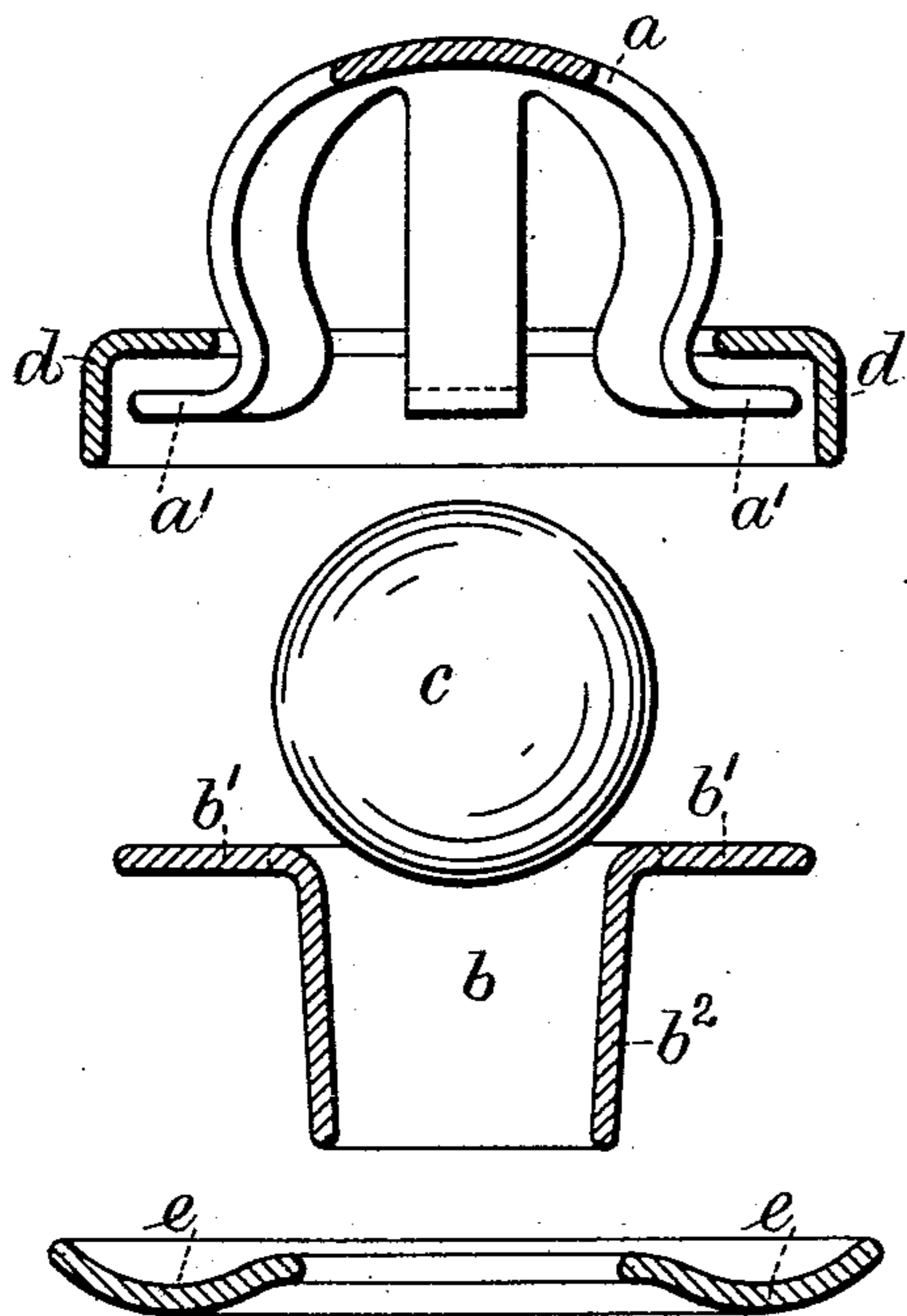


Fig. 3.

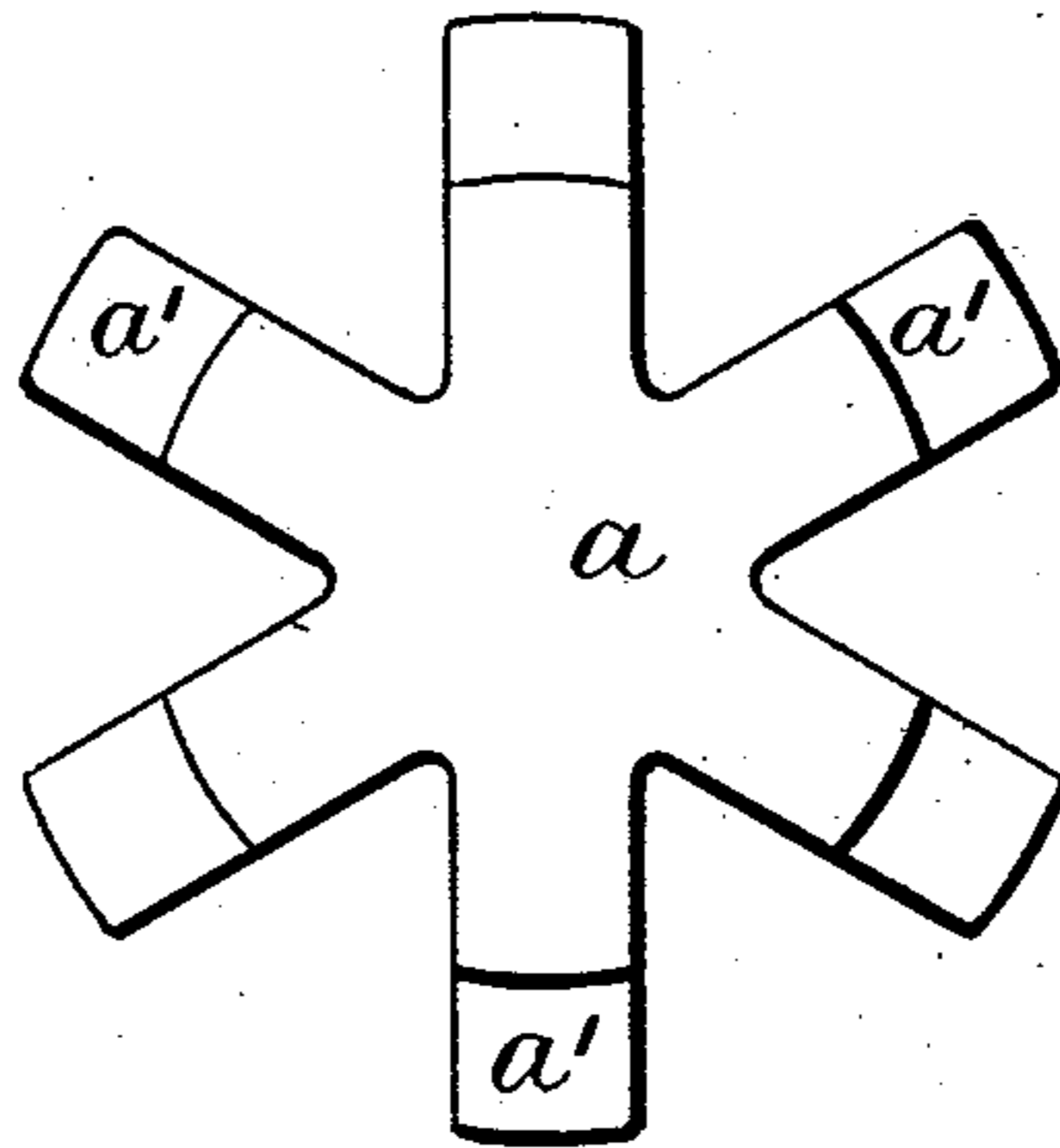


Fig. 4.

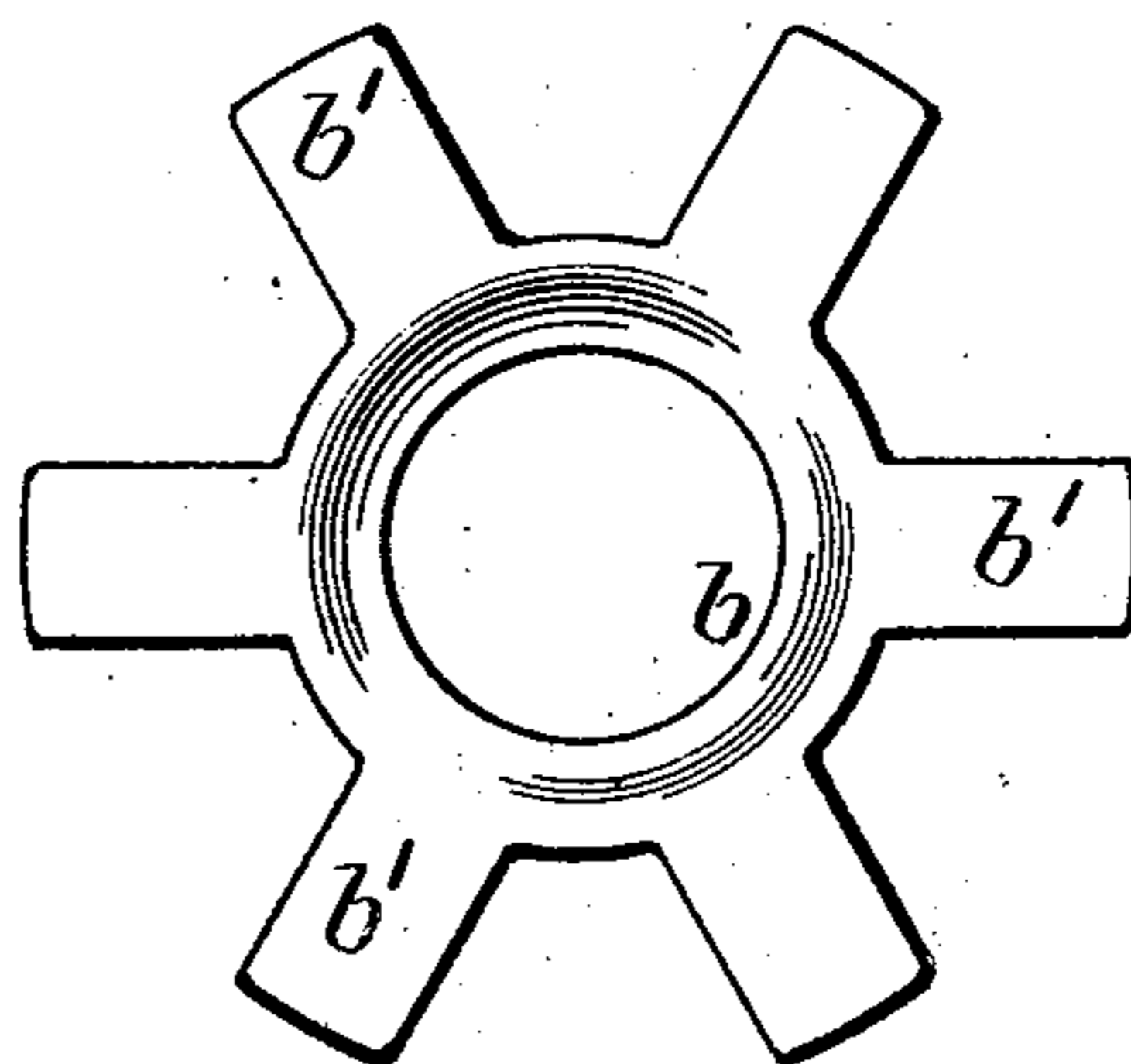
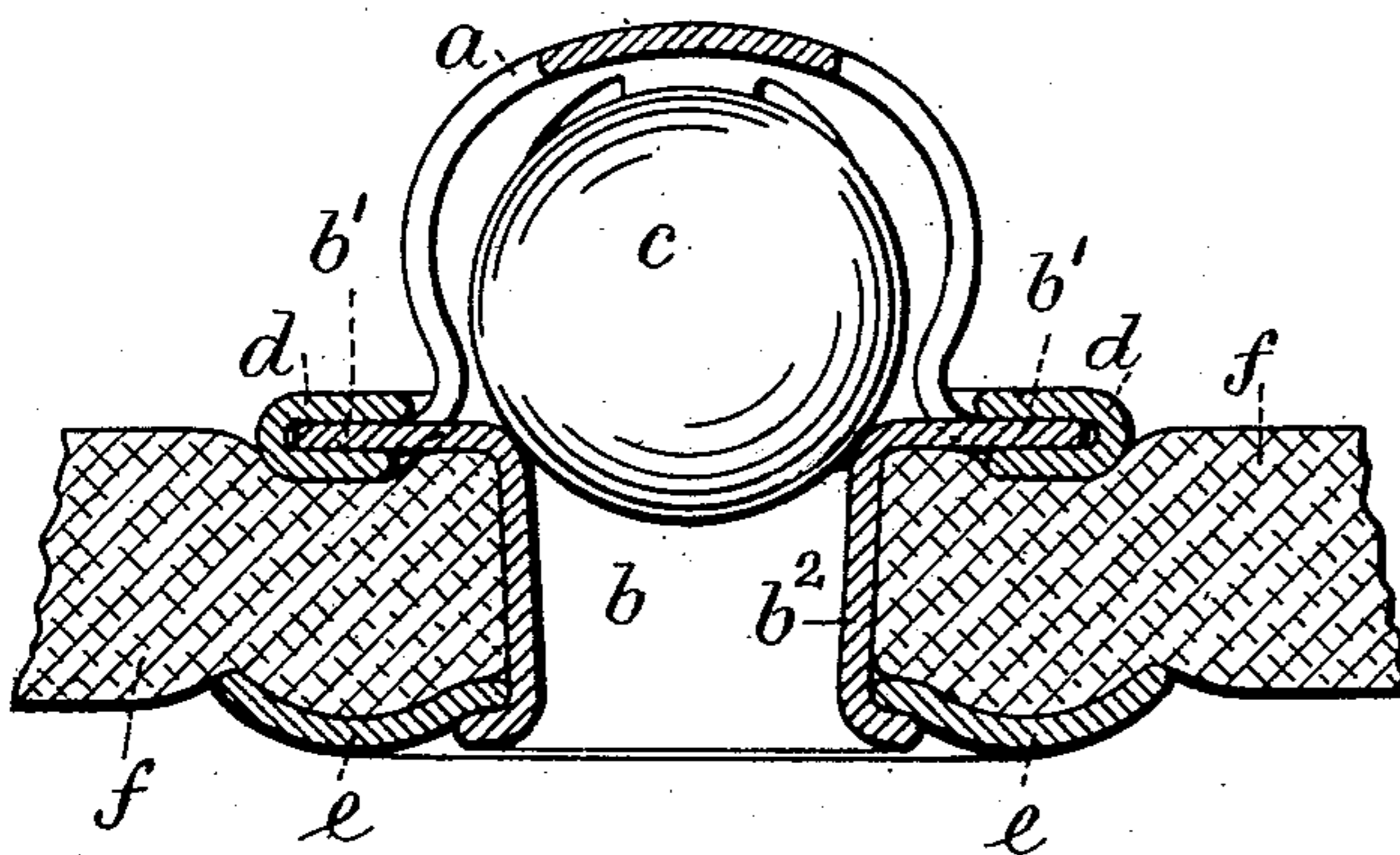


Fig. 1.



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UNITED STATES PATENT OFFICE.

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SPECIFICATION forming part of Letters Patent No. 745,747, dated December 1, 1903.

Application filed March 30, 1903. Serial No. 150,106. (No model.)

To all whom it may concern:

Be it known that I, JAMES V. WASHBURN, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Stud Members, of which the following is a specification.

My invention relates to a novel construction of the stud members of glove and garment fasteners, with the object of employing as few parts as possible in the structure and bringing said parts into a compact form.

In carrying out my invention I employ a resilient head having radial portions terminating in feet and an inverted eyelet with the edge of the flange thereof notched to form radial projections, the said projections corresponding generally in dimensions with the feet of the resilient head portion, so that the same interlock and lie in the same plane—that is, the projections of the eyelet-flange come into the spaces between the feet of the resilient head—and I employ an annulus collet in a reversed or turned-over position and which collet is of L shape in cross-section. The resilient head passes up through the opening in the collet, and the flange of the eyelet passes into the collet, the projections thereof coming intermediate to the feet of the head. The flange portion of the collet is then overturned upon said projections and feet, the collet in its completed form or condition being of flattened U form in cross-section, and I prefer to place between the said resilient head and eyelet a spherical or globular device, having the office of preventing accidental distortion or crushing of the resilient head. The tubular portion of the eyelet passes down through material and its advancing end through a washer coming against the opposite side of said material, the edge of the tubular portion of the eyelet being outwardly overturned against the washer in connecting the parts together and to the intervening material.

In the drawings, Figure 1 is a vertical section representing my invention. Fig. 2 is a vertical section of the same parts in disconnected form. Fig. 3 is a plan of the resilient head, and Fig. 4 a plan of the eyelet.

The resilient head *a* is provided with radial portions terminating in feet *a'*. The eyelet *b* comprises, as usual, a flange and tubular

portion. The edge of the flange is notched to provide projections *b'*, generally corresponding in dimensions with the feet *a'* of the resilient head and which projections, when the head and eyelet are brought together, are adapted to occupy the spaces between the feet of the resilient head, so that said projections and feet are in the same horizontal plane as one thickness of metal.

The collet *d* is of annulus form and occupies a substantially overturned position, and in connecting the parts the resilient head is passed up through the central opening of the collet, so that the upper surface of the feet *a'* come against the under surface of the collet. The eyelet with the globular or spherical device *c* inserted between the same and the resilient head are now passed into the collet, with the projections *b'* thereof intermediate of the feet *a'* of the resilient head, and the marginal flange of the collet is then overturned and the collet brought into the cross-sectional form shown in Fig. 1. The resilient head *a*, the eyelet *b*, and the collet *d*, as connected, then form a complete structure, it being preferable in connection therewith to employ a spherical device intervening between the head and the eyelet, although I do not limit myself in this respect.

In connecting the stud member to flexible or intervening material the tubular part *b²* of the eyelet passes down through said material and through the central opening of a washer *e*, and the advancing edge of the tubular part *b²* of the eyelet is then outwardly overturned upon the outer surface of the washer to connect the parts together and to the intervening material *f*. This intervening material may be flexible or of any desired character.

The globular or spherical device between the resilient head and the eyelet has the office of preventing accidental distortion or crushing of the head, which would substantially destroy or render useless the resilient head, as under such conditions the head will spring until it contacts with the surface of the spherical device, which thereafter will take all the strain or pressure and preserve the integrity of the resilient head.

I claim as my invention—

1. In a stud member, a resilient head hav-

ing radial portions terminating in feet, an eyelet adapted to pass through material to which the stud member may be attached and having the edge of the flange thereof notched to form radial projections which come intermediate to the feet of the head, so that the said parts occupy the same horizontal plane as one thickness, an annulus collet extending around and connecting the feet of the resilient head and the projections of the eyelet.

2. In a stud member, a resilient head having radial portions terminating in feet, an eyelet having the edge of the flange thereof notched to form radial projections which come intermediate to the feet of the head, so that the said parts occupy the same horizontal plane as one thickness, an annulus collet extending around and connecting the feet of the resilient head and the projections of the eyelet, and a globular or spherical device between the said resilient head and eyelet, and normally finding a seat at the corner of the tubular and flange portions of the eyelet.

3. A stud member of a garment-fastener, comprising a resilient head having radial portions terminating in feet, an eyelet having the edge of the flange thereof notched to form radial projections which come intermediate to the feet of the head, so that the said parts occupy the same horizontal plane as one thickness, an annulus collet extending around and connecting the feet of the resilient head

and the projections of the eyelet, the tubular portion of the eyelet passing through intervening material, a washer on the opposite side of said material and the edge of the tubular portion of the eyelet outwardly overturned against the washer to connect the parts together and to said material.

4. A stud member of a garment-fastener, comprising a resilient head having portions terminating in feet, an eyelet having the edge of the flange thereof notched to form radial projections which come intermediate to the feet of the head so that the said parts occupy the same horizontal plane as one thickness, an annulus collet extending around and connecting the feet of the resilient head and the projections of the eyelet, and a globular or spherical device between the said resilient head and eyelet, and normally finding a seat at the corner of the tubular and flange portions of the eyelet, the tubular portion of the eyelet passing through the intervening material, a washer on the opposite side of said material and the edge of the tubular portion of the eyelet outwardly overturned against the washer to connect the parts together and to said material.

Signed by me this 26th day of March, 1903.

JAS. V. WASHBURN.

Witnesses:

GEO. T. PINCKNEY,
S. T. HAVILAND.