

C. J. LUBECK.

FASTENER.

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948,071.

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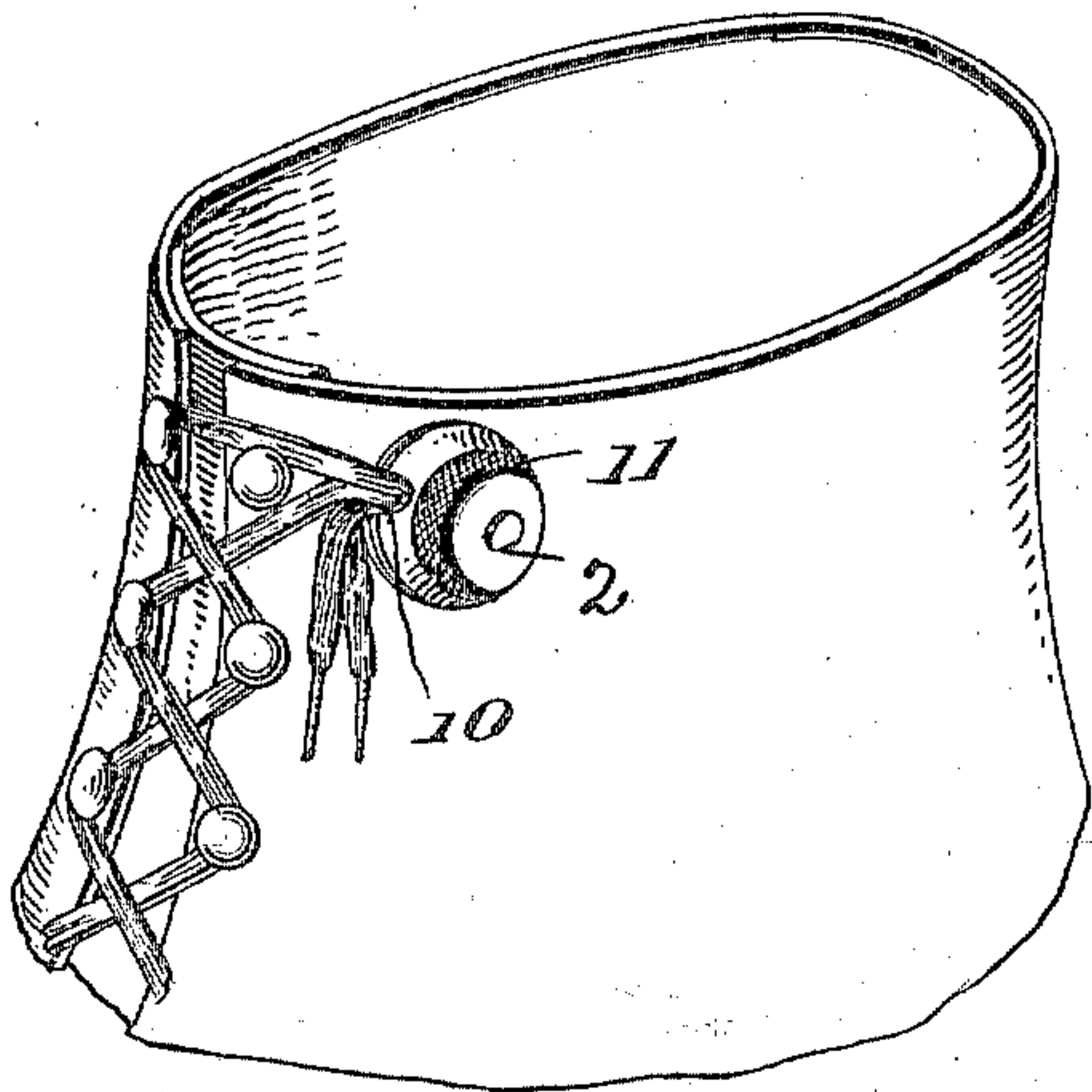


Fig. 1.

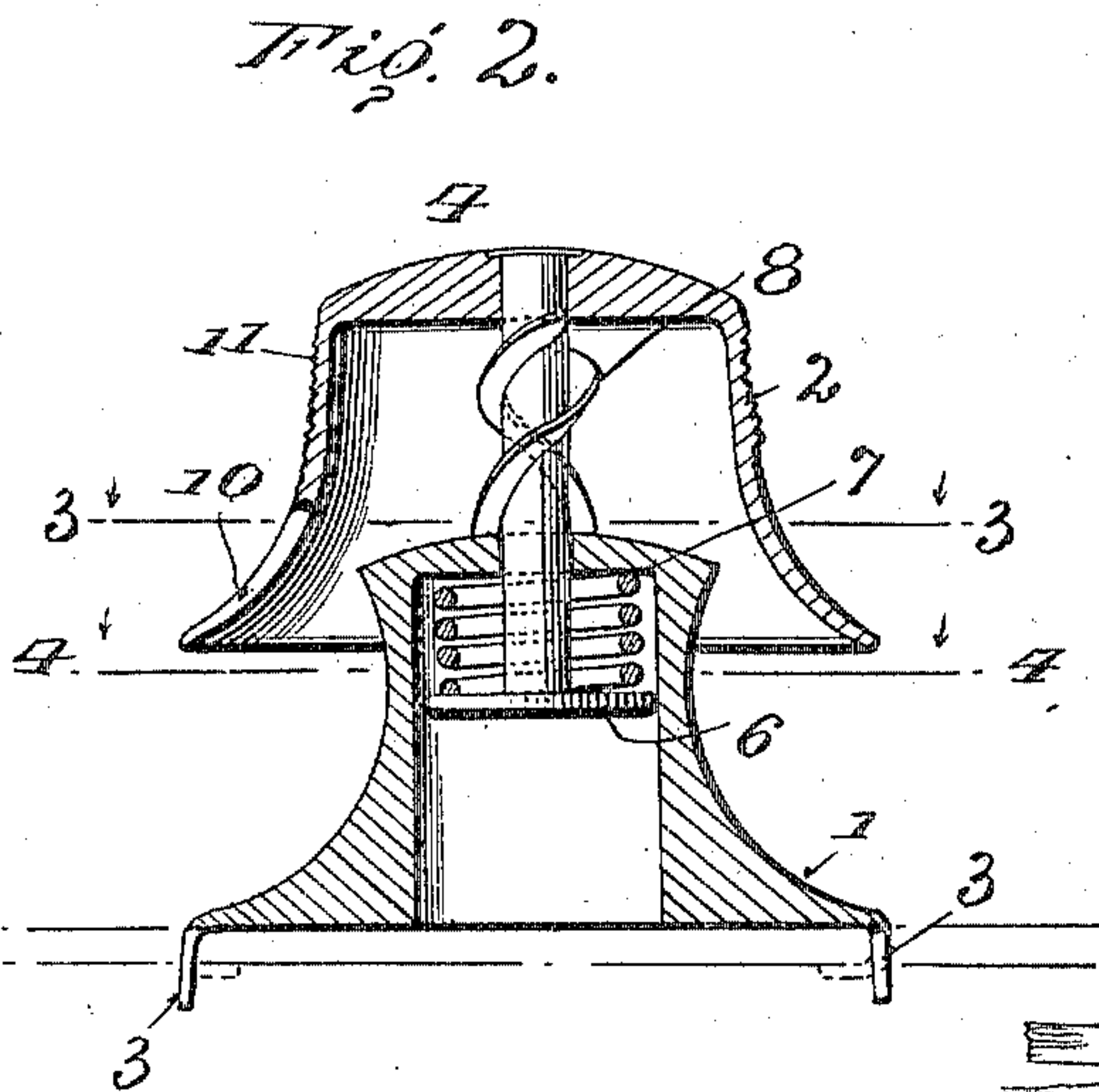


Fig. 2.

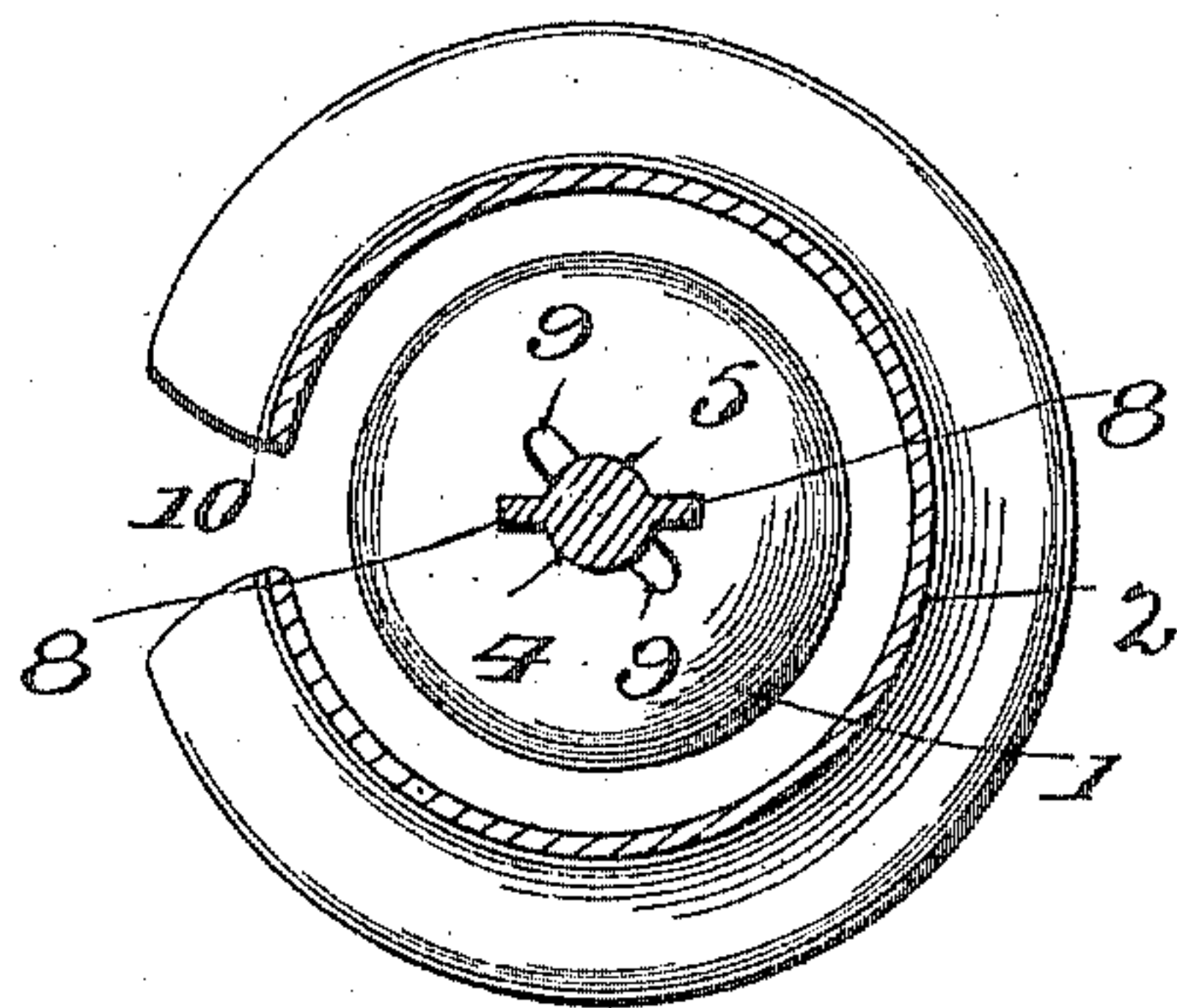


Fig. 3.

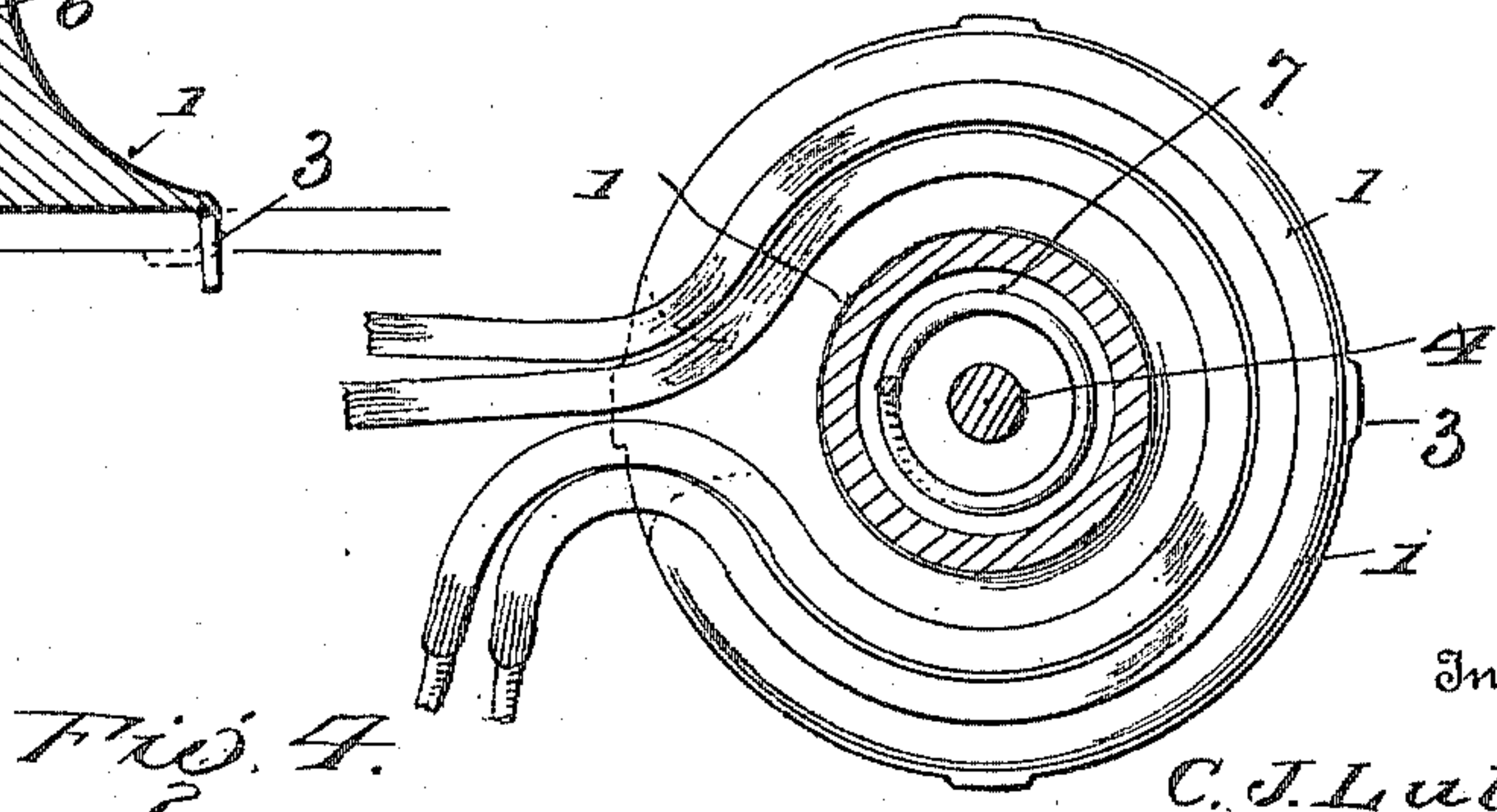


Fig. 4.

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UNITED STATES PATENT OFFICE.

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FASTENER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CARL J. LUBECK, citizen of the United States, residing at Souris, in the county of Bottineau and State of North Dakota, have invented certain new and useful Improvements in Fasteners, of which the following is a specification.

The object of this invention is an improved construction of lace or cord fastener designed for use on boots or shoes, leggings, horse blankets, fly nets, and generally whenever a lace, cord, or small ropes are to be tied.

The invention consists of certain constructions, combinations and arrangements of parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of the upper portion of a shoe illustrating one application of my improved fastener. Fig. 2 is an enlarged central section through the fastener. Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 2, and Fig. 4 is a similar view on the line 4—4 of Fig. 2.

Corresponding and like parts are referred to in the following description and accompanying drawing by the same reference characters.

Referring to the drawings, the numeral 1 designates the relatively stationary clamp member of my improved fastener, and 2 the cap-like relatively movable member designed to co-act with the member 1 to secure between them the shoe lace or other part to be tied. The stationary or base member 1 of the device may be formed with prongs 3 by which it may be secured to the shoe upper or other desired part. The member 2 is provided with the centrally disposed stem 4 riveted or otherwise secured in the top thereof, as clearly illustrated in the drawing, the said stem passing through an opening 5 formed in the top of the member 1 and being formed at its extremity with a head 6 received in the relatively large chamber that is formed in the substantially tubular member 1.

7 designates an expansion spring which encircles the stem 4 and is interposed between the head 6 and the opposing wall at the top of the member 1, the said spring having a tendency to draw the member 2 over

and upon the member 1, in an evident manner. The stem 4 is formed with one or more spiral threads 8 designed to work in preferably diametrically opposite notches 9 formed in the top of the base member 1.

Preferably, the member 1 is in the form of a cap, as above stated, and is provided with an edge recess 10 to receive the lace, cord, or the like, to be fastened, and the exterior wall of the said cap is knurled or roughened, as indicated at 11, in order that it may be more easily manipulated.

In the practical use or operation of my improved fastener, it is evident from the foregoing description in connection with the accompanying drawing, that a quarter turn of the cap or clamping member 2 relative to the base member 1 will, on account of the spiral threads 8 and their connection with the top 5 of the member 1, effect the extension of the member 2 relative to the member 1 simultaneously with the turning movement, and that a turn sufficient to carry the lower end of the threads 8 out of engagement with the notches 9 will maintain or lock the two parts of the fastener in extended relation to each other so that the lace or other article to be fastened may be easily inserted. In the preferred arrangement, the shoe lace, for instance, is passed inwardly between the edges of the parts 1 and 2 and looped once around the tubular body portion of the member 1, and the member 2 is then turned until the threads 8 register with the notches 9, whereupon it is evident that the spring 7 will draw the member 2 down upon the member 1, whereupon a slight pressure or turning of the member 2 on the member 1 will bind the parts securely together through the instrumentality of the threaded connection and the lace or the like will be held secure and without any liability of becoming slack.

The shoe laces for instance are passed one or more times around the tubular body portion of the member 1 as may be desired, while the parts are in open position illustrated in section in Fig. 2. The laces may also be arranged that they may pass at either or both ends out of the opening 10 before the parts are closed one upon the other so as the cap revolves, the lace will be twisted around the shank, or if desired this twisting action may be omitted and the laces may be passed any desired number of times around the shank or body portion of the member 1,

while the parts are open, and the loose ends caught under and concealed by the parts when the cap member is closed down upon the other member. Other ways of operating the device for securing the laces therein will of course occur to the users of the device.

While I have shown the member 1 as being secured in place by means of the prongs 3, it is to be understood that my invention is not limited in this regard, but that it may be secured in place by any means whatsoever, and that the invention is also not limited to the exact construction and arrangement of the parts hereinbefore described and illustrated in the accompanying drawings, as various changes may be made in the design, proportions, construction and arrangement of the several parts of the device without departing from the scope of the invention as defined in the appended claims.

Having thus described the invention, what is claimed is:

1. A fastener of the character described comprising clamping members, a connection between the two arranged to effect an extended relation between said members by and upon the turning of one member on the other and also arranged to hold said members automatically in extended relation, and means for automatically drawing said members together upon the releasing of said members from said automatic holding means.

2. A fastener of the character described comprising a base member formed with a tubular body portion, a cap-like relatively movable member adapted to fit over the body portion of the base member, a stem secured to the movable member and having a threaded connection with the base member and arranged to effect an extended relation between the two members upon the turning of one member on the other, the stem being

provided with a head, and a spring mounted in the tubular body portion of the base member and bearing upon said head with a tendency to draw said members together, the lower ends of the threads being arranged to ride on the top of the base member to hold the two members in extended or open relation to each other.

3. A fastener of the character described, comprising a base-member formed with a tubular body portion having an opening formed in the top thereof and notches merging into said opening, a cap-like relatively movable member adapted to fit over the body portion of the base-member, and having spiral threads thereon designed to engage in said notches as well as ride upon the top of the base-member when the movable member is extended, the stem being provided with a head at its lower end, and a spring mounted in the tubular body portion of the base-member and bearing upon said head with a tendency to draw said members together.

4. A fastener of the character described, comprising a base-member, a cap-like movable member adapted to fit over the body portion of the base-member and formed with an edge recess, a connection between the two members arranged to effect an extended relation between said members upon the turning of one member relative to the other and also arranged to hold said members automatically in extended relation, and means for automatically drawing said members together upon the releasing of said members from said automatic holding means.

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

CARL J. LUBECK. [L. s.]

Witnesses:

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