

Fig. 1.

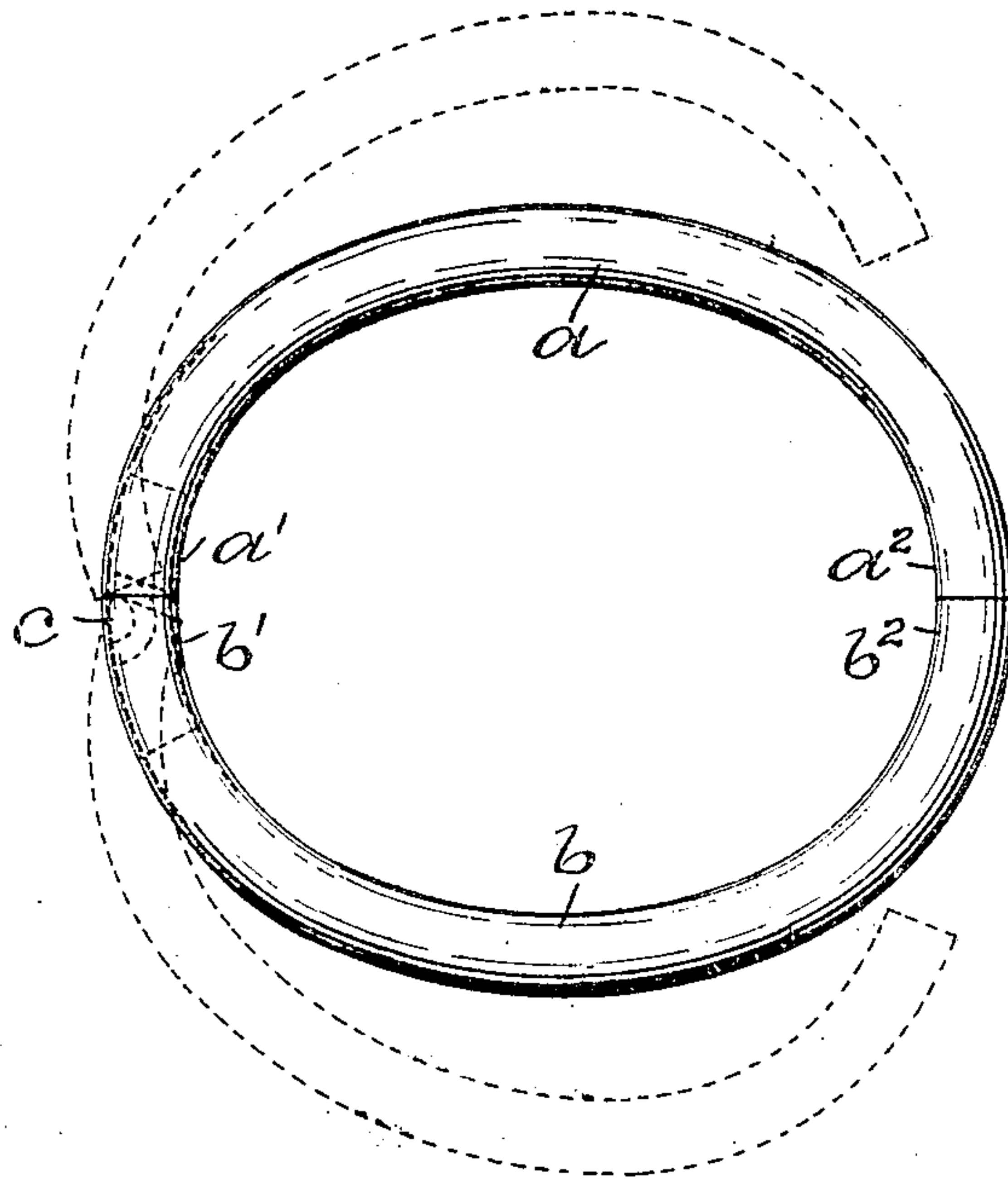


Fig. 2.

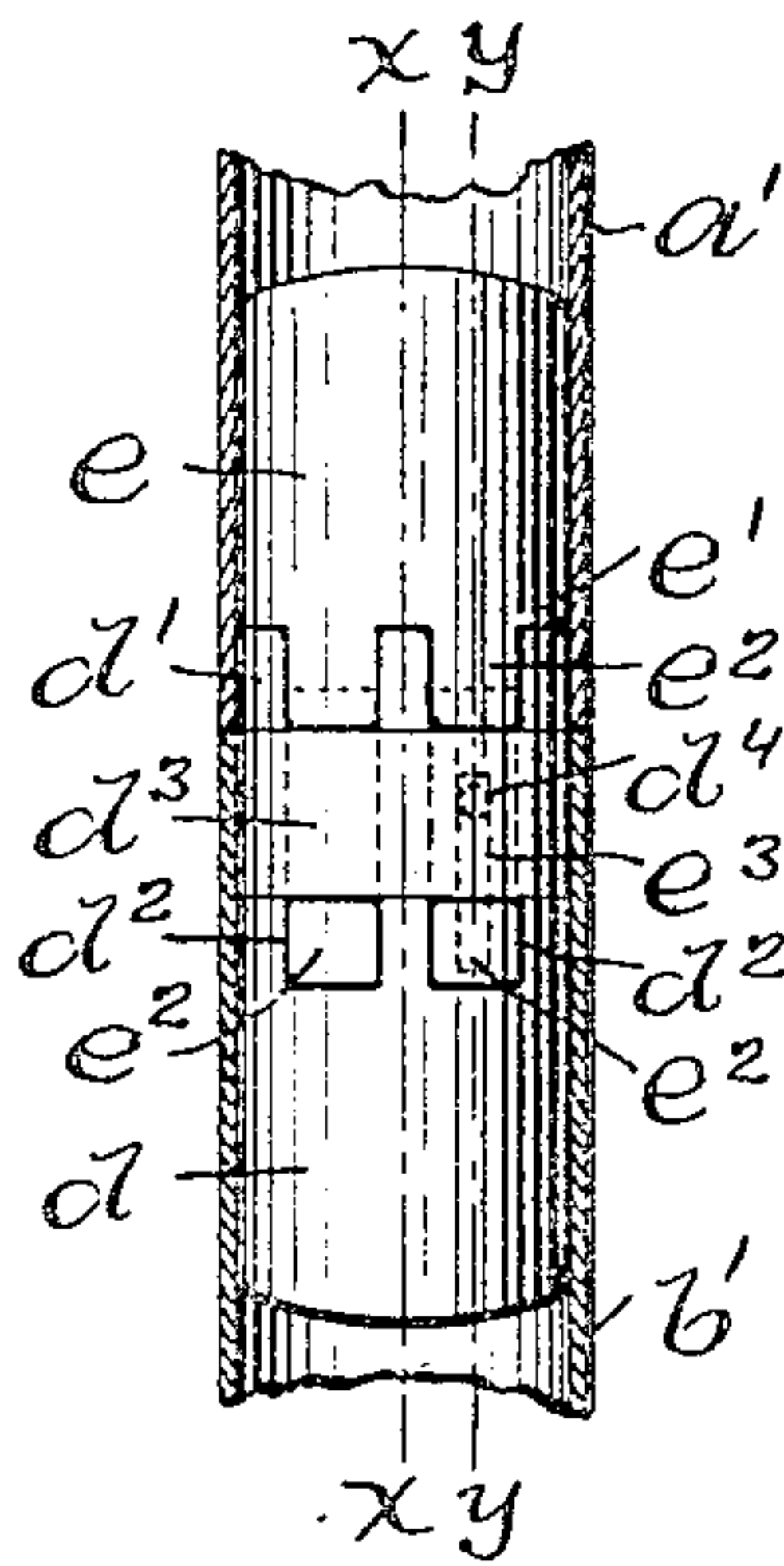


Fig. 3.

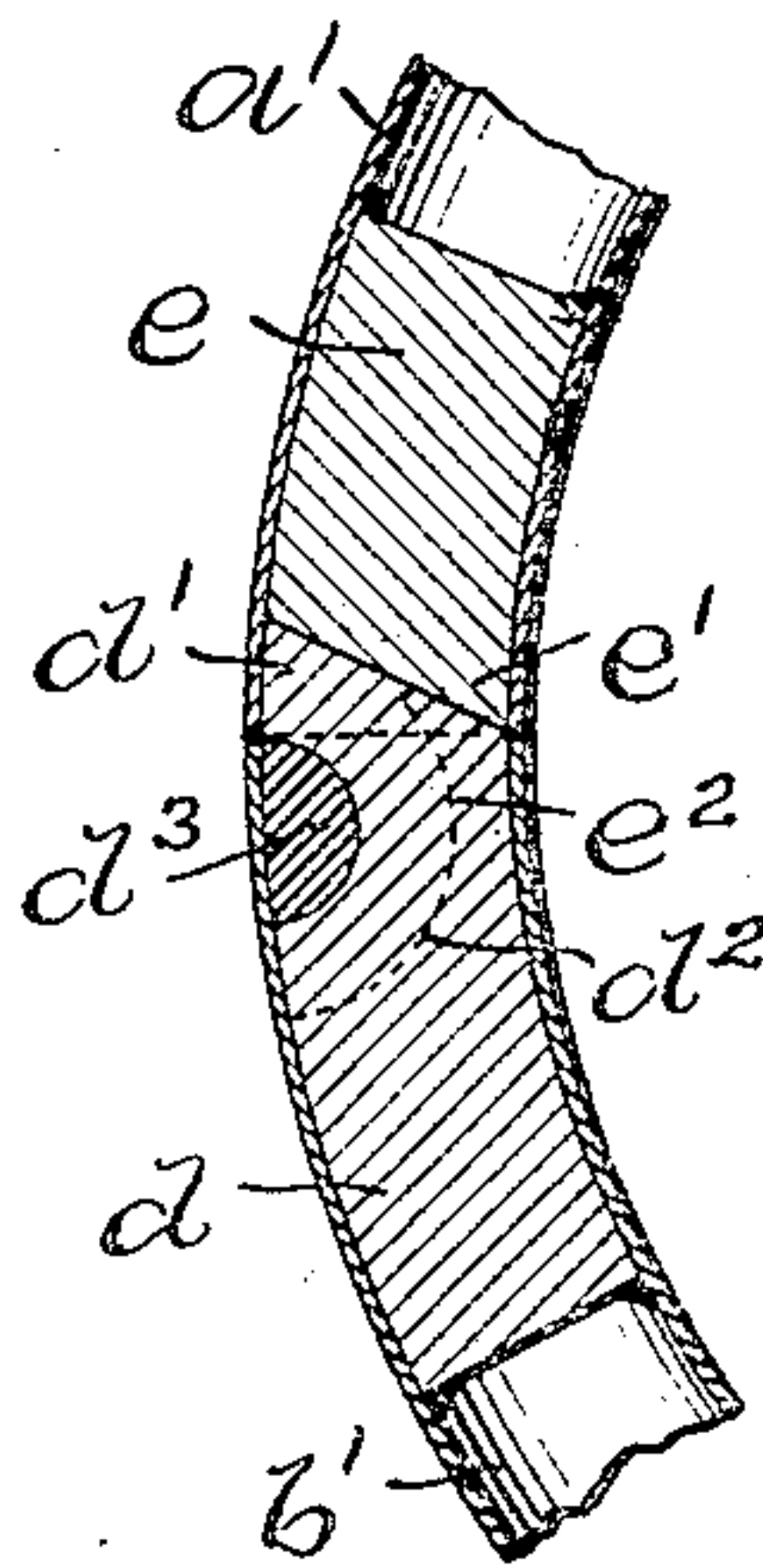
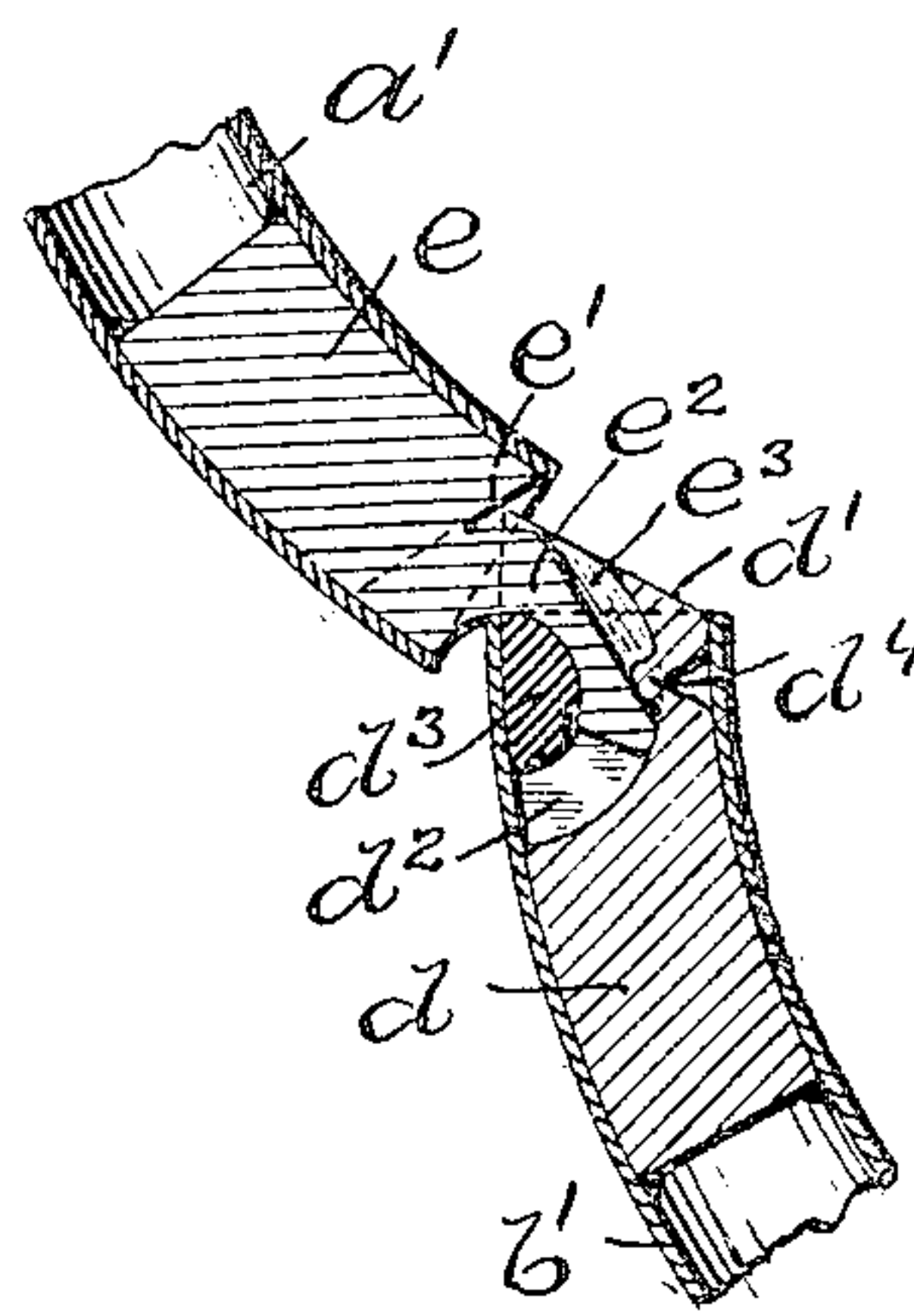


Fig. 4.



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WALFRID WALLENTHIN, OF ATTLEBORO, MASSACHUSETTS, ASSIGNOR TO
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BRACELET.

No. 808,323.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed September 11, 1905. Serial No. 277,923.

To all whom it may concern:

Be it known that I, WALFRID WALLENTHIN, a citizen of the United States, residing at Attleboro, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Bracelets, of which the following is a specification.

This invention has reference to an improvement in bracelets, and more particularly to an improvement in concealed hinges for bracelets.

The object of my invention is to improve the construction of a concealed hinge for bracelets whereby a stronger and more durable concealed hinge is constructed than has heretofore been done.

My invention consists in the peculiar and novel construction of a concealed hinge for bracelets, with details of construction, as will be more fully set forth hereinafter.

Figure 1 is a side view of a bracelet provided with my improved concealed hinge and showing the bracelet in the closed position in full lines and in the open position in broken lines. Fig. 2 is an enlarged detail sectional view of the hinge end of the bracelet looking at the outside face of the hinge. Fig. 3 is an enlarged detail sectional view taken on line XX of Fig. 2 through the hinge and adjacent portion of the bracelet and showing the hinge in the closed position; and Fig. 4 is a detail sectional view similar to Fig. 3, taken on line YY of Fig. 2 and showing the hinge in the open position.

In the drawings, *a* indicates the upper semi-oval half, *b* the lower semi-oval half, and *c* the concealed hinge, of my improved bracelet.

The semi-oval halves *a* and *b* are constructed from a tube, which is oval in cross-section. The upper half *a* has the end *a'* for the hinge and the end *a²*. The lower half *b* has the end *b'* for the hinge and the end *b²*. The ends *a'* and *b'* and the ends *a²* and *b²* coincide when the bracelet is closed. The ends *a²* and *b²* may be provided with any of the well-known forms of catches adapted to hold the ends together when the bracelet is closed.

My improved concealed hinge *c* consists of the members *d* and *e*. These members *d* and *e* are curved to conform to the contour of the bracelet and shaped to fit in the ends *a'* and *b'*, in which they are secured by solder or other means. The member *d* of the hinge

has the beveled end *d'*, the two semicircular grooves *d² d²*, and the semicircular cross-bar *d³*. The semicircular grooves *d² d²* extend inward from the beveled end *d'* and outward through the outer face of the member, forming central and outer webs, as shown in Fig. 2. Semicircular notches are formed centrally in the webs and the semicircular cross-bar *d³* secured to the webs in the notches by solder. The member *e* of the hinge has the beveled end *e'*, from which the two semicircular fingers *e² e²* extend. These fingers are spaced and shaped to fit into the semicircular grooves *d² d²* in the member *d* under the cross-bar *d³*, which forms the pintle of the hinge. A groove *e³* is formed lengthwise in the inner face of one of the fingers *e²*, and a teat *d⁴* stamped up from the bottom of the coinciding groove *d²* into the groove *e³*. This teat *d⁴* acts on the bottom of the groove *e³* in the finger *e²* as a stop to limit the opening movement of the bracelet, as shown in Fig. 4. The beveled ends *d'* and *e'* of the hinge coincide when the hinge is closed, as shown in Fig. 3. By this construction the end *d'* protrudes from the end *b'* of the bracelet, practically closing the opening between the ends *a'* and *b'* of the bracelet when the bracelet is opened, as shown in Fig. 4.

In the operation of my improved concealed hinge the semicircular fingers *e² e²* on the member *e* have a circular reciprocating movement in the semicircular grooves *d² d²* in the member *d* under the cross-bar *d³*, and this movement is limited in closing the hinge by the beveled ends *d'* and *e'* and in opening the hinge by the teat *d⁴*, acting as a stop on the bottom of the groove *e³* in the finger *e²*.

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

1. In a hinged bracelet, a concealed hinge comprising a member having a beveled end, semicircular grooves extending inward from the beveled end and outward through the outer face of the member forming central and side webs in which are central semicircular notches and a semicircular cross-bar secured to the webs in the notches, and a member having a beveled end, semicircular fingers extending from the beveled end and adapted to fit into the semicircular grooves in the first member under the semicircular bar, means for limiting the opening move-

ment of the hinge, and means for securing the members of the hinge in the bracelet, as described.

2. A concealed bracelet-hinge comprising
 5 a member d having the beveled end d' , the
 semicircular grooves d^2 d^2 extending inward
 from the beveled end d' and outward through
 the outer face of the member forming central
 and side webs in which are central semicircu-
 10 lar notches, a semicircular cross-bar d^3 se-
 cured to the webs in the notches, a member
 e having the beveled end e' , the semicircular
 fingers e^2 e^2 extending from the beveled end
 e' and adapted to fit into the semicircular
 15 grooves d^2 d^2 in the member d under the bar
 d^3 , the groove e^3 in a finger e^2 , the teat d^4 on
 the member d adapted to enter the groove e^3
 in the finger e^2 and form a stop, and means
 for securing the members d and e of the hinge
 20 in a bracelet, as described.

3. The combination with a tubular half a
 having the end a' and the tubular half b hav-
 ing the end b' of a bracelet, of a concealed
 hinge c composed of the members d and e ,

the member d having the beveled end d' , the 25
 semicircular grooves d^2 d^2 extending inward
 from the beveled end d' and outward through
 the outer face of the member forming cen-
 tral and side webs in which are central semi-
 circular notches, a semicircular cross-bar d^3 30
 secured to the webs in the notches, the mem-
 ber e having the beveled end e' , the semicir-
 cular fingers e^2 e^2 extending from the beveled
 end e' and adapted to fit into the semicircular
 grooves d^2 d^2 in the member d , the groove e^3 35
 in a finger e^2 , the teat d^4 on the member d
 adapted to enter the groove e^3 in the finger
 e^2 and form a stop, and means for securing
 the members d and e of the hinge in the ends
 a' and b' of the halves a and b of the bracelet, 40
 as described.

In testimony whereof I have signed my
 name to this specification in the presence of
 two subscribing witnesses.

WALFRID WALLENTIN.

Witnesses:

ADA E. HAGERTY,
 J. A. MILLER.