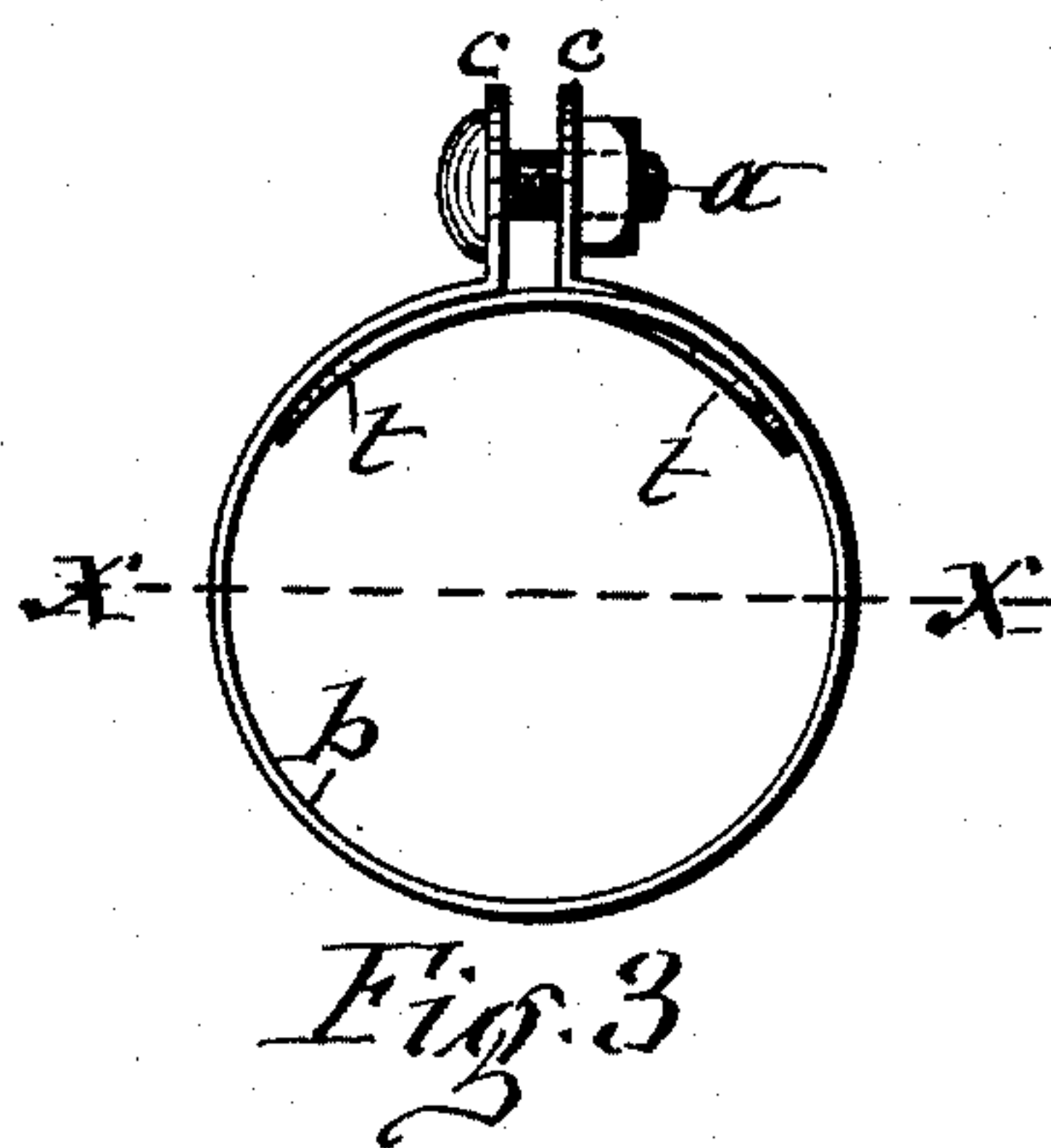
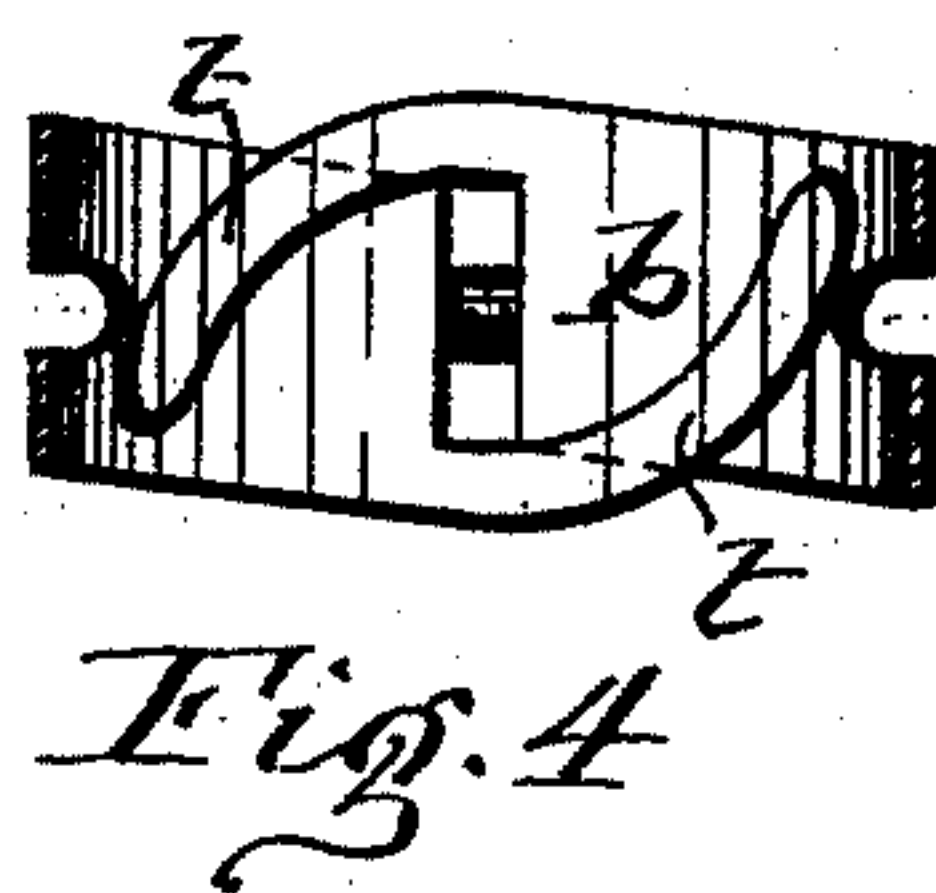
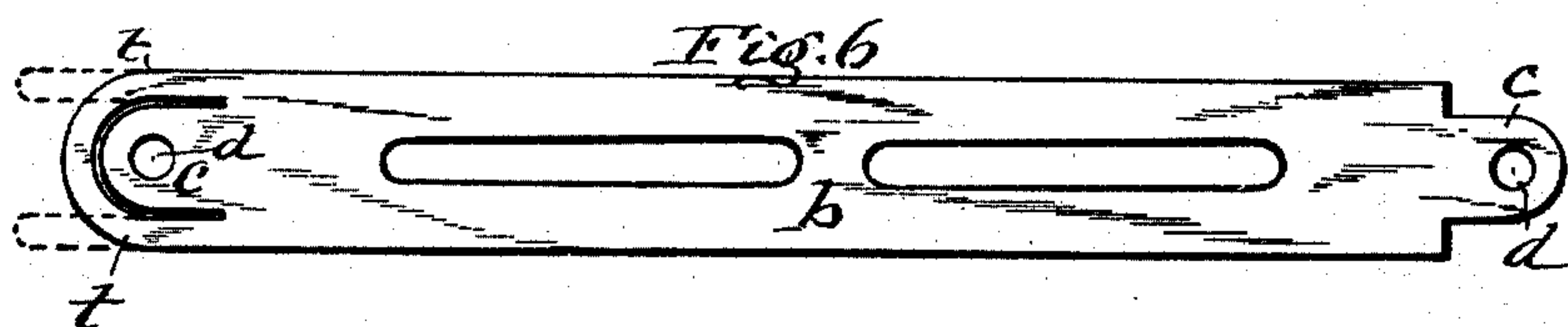
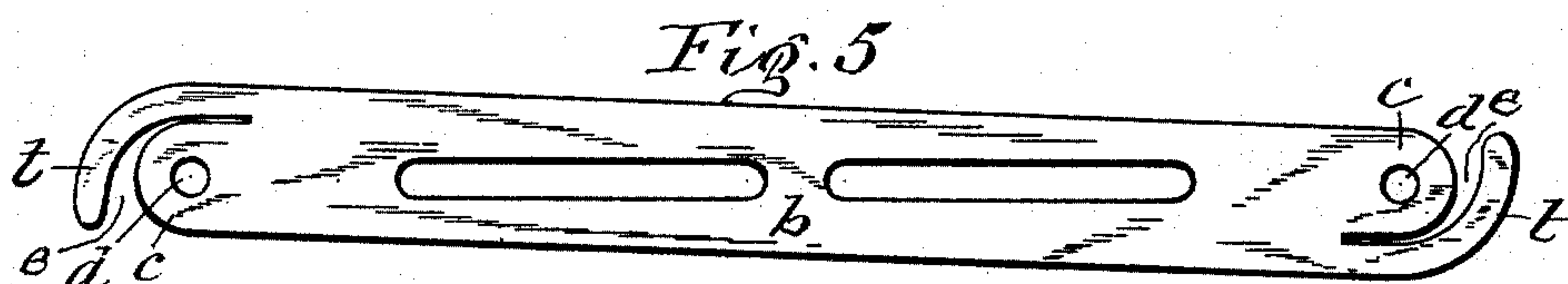
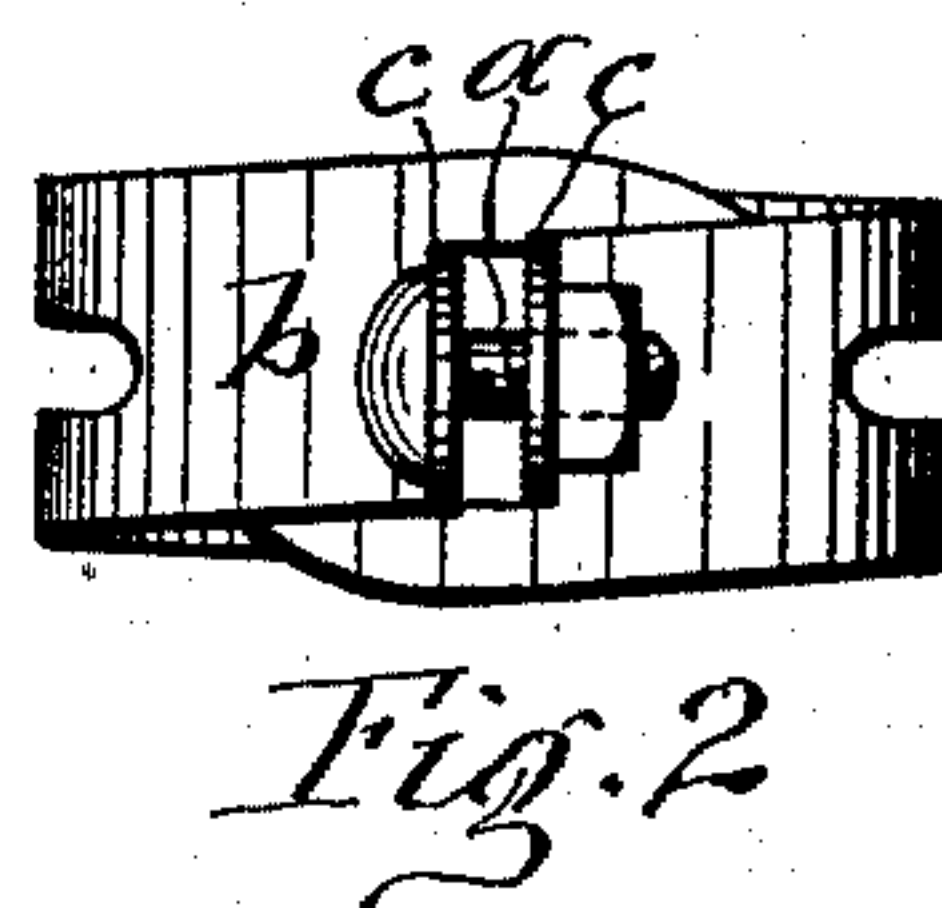
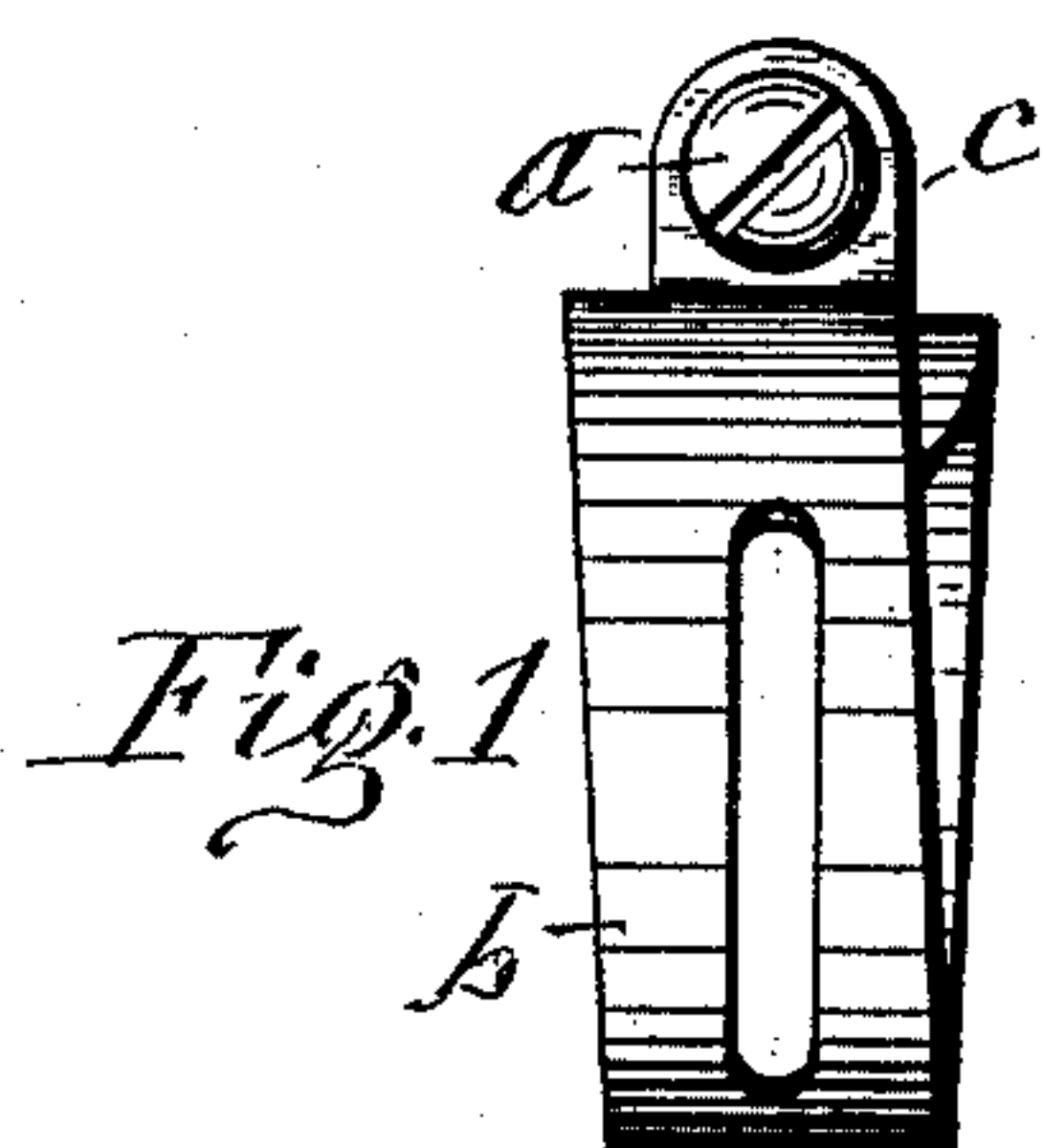


(No Model.)

A. R. DICKINSON.
HOSE CLAMP.

No. 483,302.

Patented Sept. 27, 1892.



WITNESSES:

C. L. Benson
J. E. B. atw.

INVENTOR:

Austin R. Dickinson
By Hull, Lassar & Hull
his ATTORNEYS.

UNITED STATES PATENT OFFICE.

AUSTIN RAY DICKINSON, OF SYRACUSE, NEW YORK, ASSIGNOR TO THE SYRACUSE SPECIALTY MANUFACTURING COMPANY, OF SAME PLACE.

HOSE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 483,302, dated September 27, 1892.

Application filed January 6, 1892. Serial No. 417,178. (No model.)

To all whom it may concern:

Be it known that I, AUSTIN RAY DICKINSON, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Hose-Clamps, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

The object of this invention is to provide a hose-clamp which shall be simple and cheap in construction and at the same time possess great strength and efficiency in its operation; and to that end the invention consists of a single band stamped out of sheet metal, perforated at each end, and tongues extending from one or both ends, said band being bent in circular shape and its end portions bent radially outward and the tongues continued in an unbroken line of curvature with the band and passing under the opposite end of the band, as hereinafter more fully described, and specifically set forth in the claims.

Figures 1 and 2 are side views of my improved hose-clamp. Fig. 3 is an edge view of the same. Fig. 4 is a transverse section on line *x x*, Fig. 3. Fig. 5 is a plan view of the blank from which the hose-clamp is formed, and Fig. 6 is a plan view of a blank embodying modifications of my invention.

Similar letters of reference indicate corresponding parts.

b represents the band, which when applied to a hose is made to tightly embrace the same by means of the bolt *a*, passing through the perforated ears *c c* and provided at one end with a head and on the opposite end with a nut, by which to tighten the band, as aforesaid. By means of tongues *t t*, extending across the space between the ends of the band and lapping onto the inner side of the band, the liability of the hose becoming crimped or buckled up between the ends of the band is obviated. This band, with its aforesaid perforated ears and tongues, I form in one piece stamped out of suitable sheet metal, as shown in Figs. 5 and 6 of the drawings. In the end portions *c c* of this blank are punched the perforations *d d*, preferably by the same die which stamps out the blank. Said die also makes the incision *e e*, and thereby forms the tongues *t t*. I preferably form said tongues on both ends of the blank, as shown in Fig. 5

of the drawings, and make said incisions from opposite edges of the band and curvilinear, so as to cause the tongues to extend, respectively, from opposite sides of the end portions of the blank and beyond the same and toward the opposite edges of the blank, as shown in said figure of the drawings.

In forming the hose-clamp from the described blank the same is bent in circular shape and the perforated end portions *c c* are bent radially outward and the tongues *t t* are continued in the same curvature with the main portion of the blank and slipped under the opposite end of the circular portion of the band, as shown in Fig. 3 of the drawings. This construction obviates abrupt bends of the tongues, and thus strengthens the same and reduces the cost of manufacture. The clamping-bolt *a* is inserted into the perforations *d d* and a nut *n* applied to the bolt and tightened to cause the band to firmly grasp the hose. I do not, however, limit myself to the use of the tongues or both ends of the band, inasmuch as said tongues may be formed only on one end of the band, as shown in Fig. 6 of the drawings. Said fingers are at opposite sides of the ears *c c* and may be united, as shown by full lines in said figure.

What I claim as my invention is—

1. As an improved article of manufacture, a hose-clamp formed of a single band of sheet metal perforated at each end and tongues extending from one or both ends, said band being bent circular shape and its perforated-end portions bent radially outward and the tongues continued in the same line of curvature with the band and extending under the opposite end of the band, substantially as described and shown.

2. The within-described blank, consisting of the band *b*, having the perforated-end portions *c c* and the tongues *t t*, respectively, on opposite sides of said end portions and extending beyond the same and toward the opposite edges of the band, substantially as described and shown.

In testimony whereof I have hereunto signed my name this 2d day of January, 1892.

AUSTIN RAY DICKINSON. [L. s.]

Witnesses:

MARK W. DEWEY,

H. M. SEAMANS.