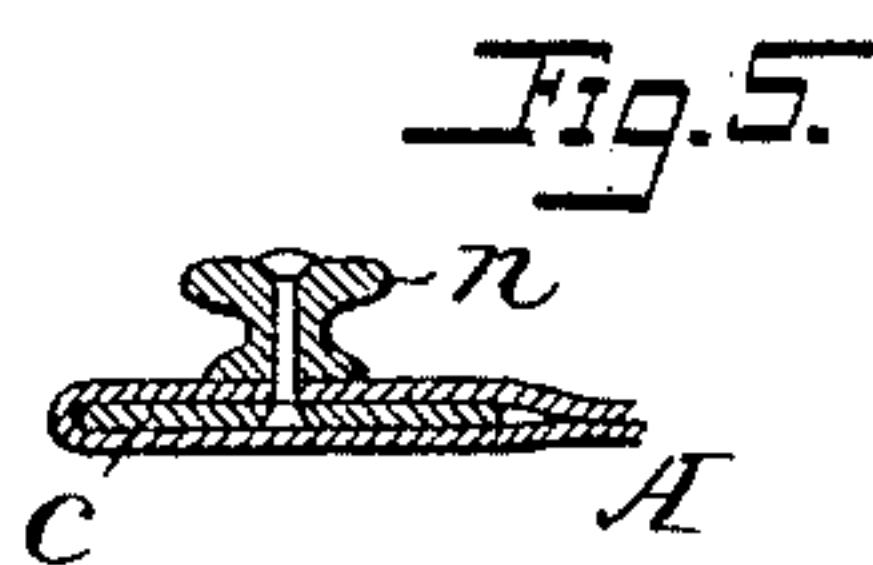
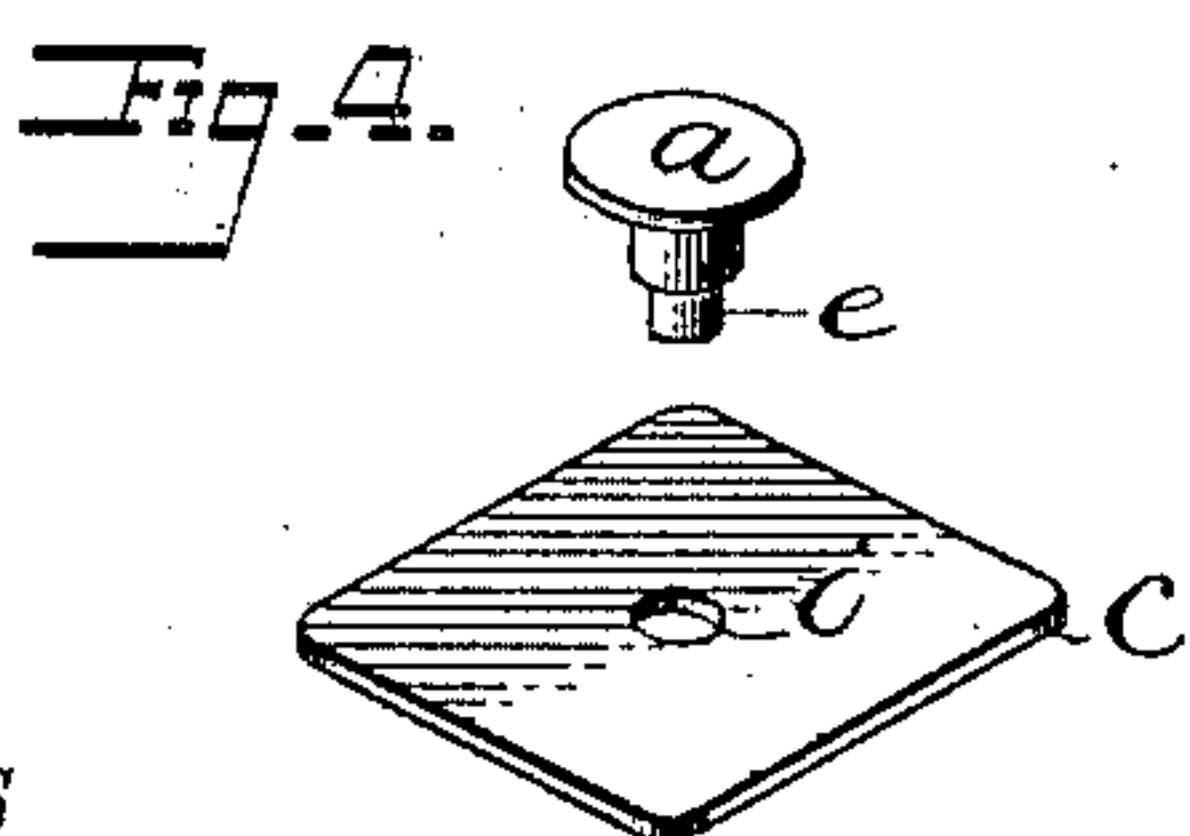
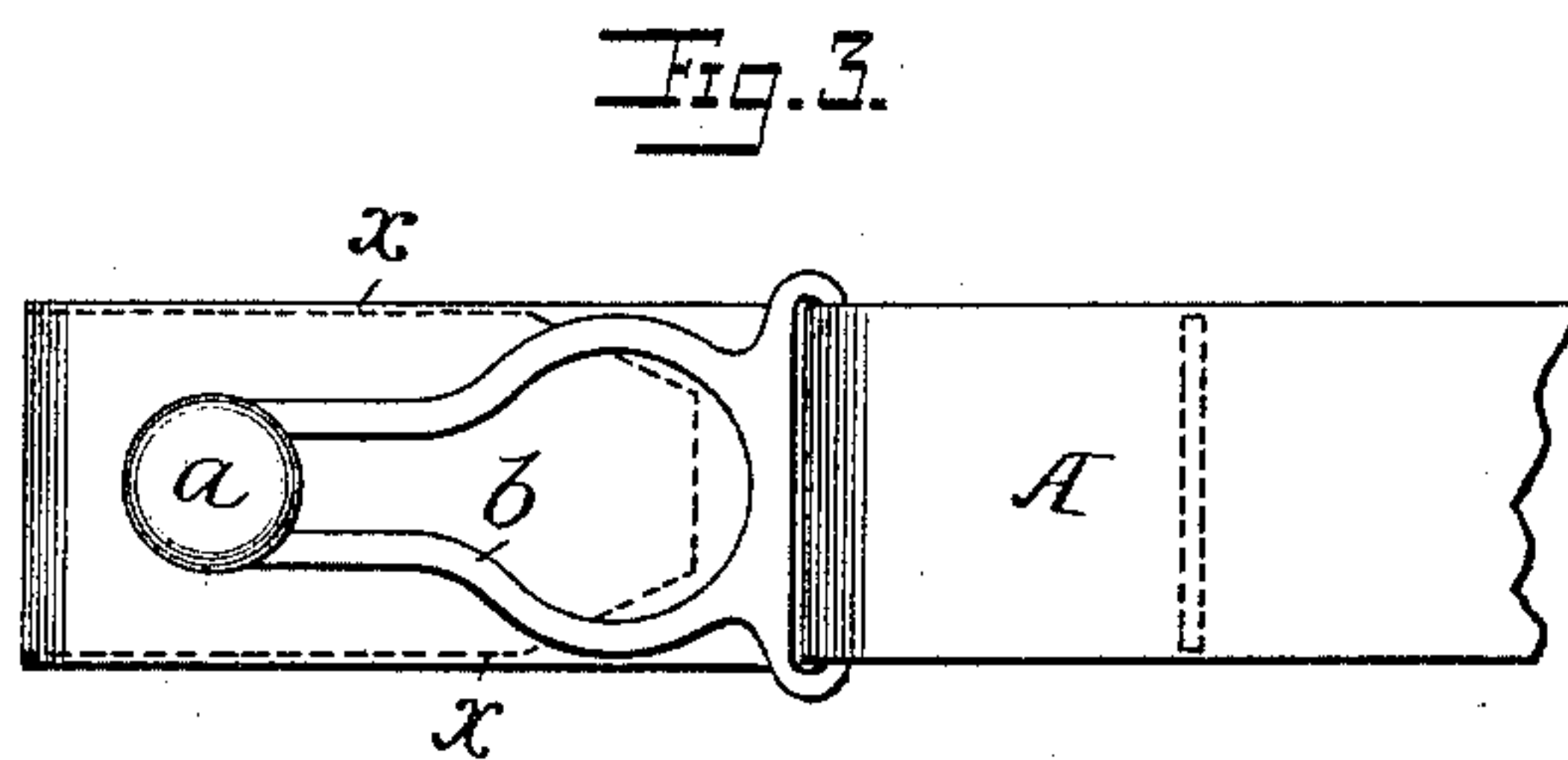
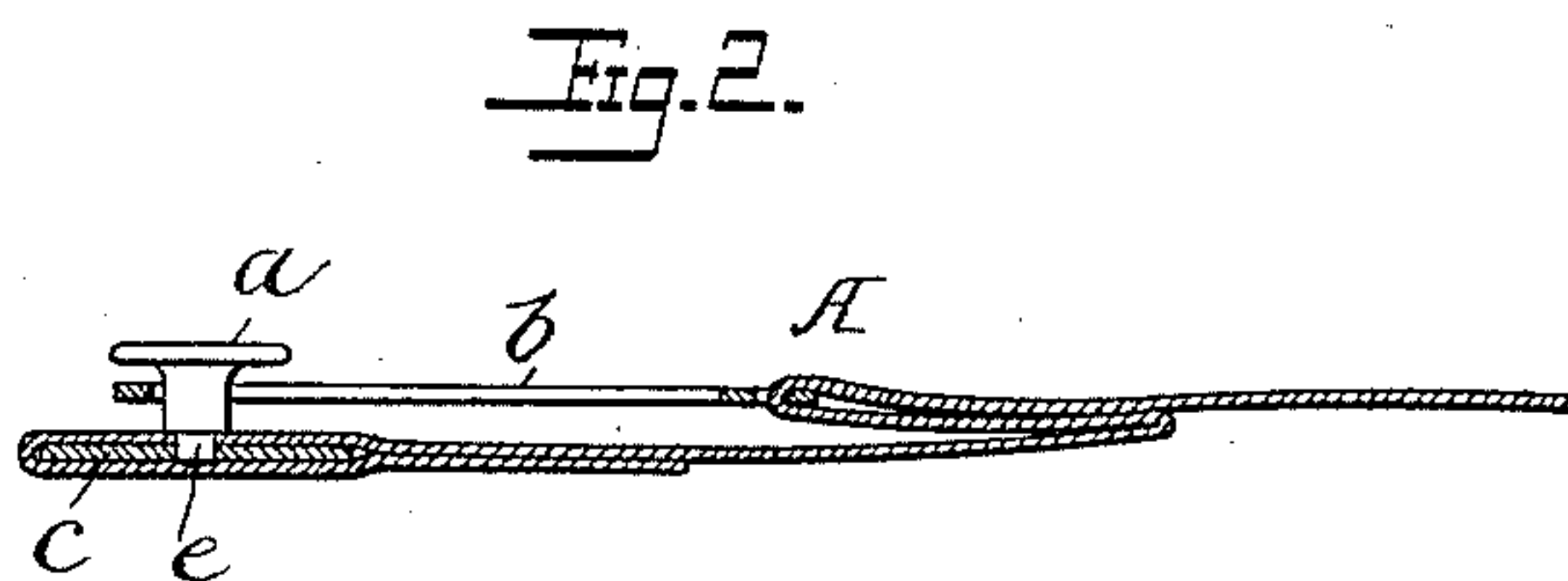
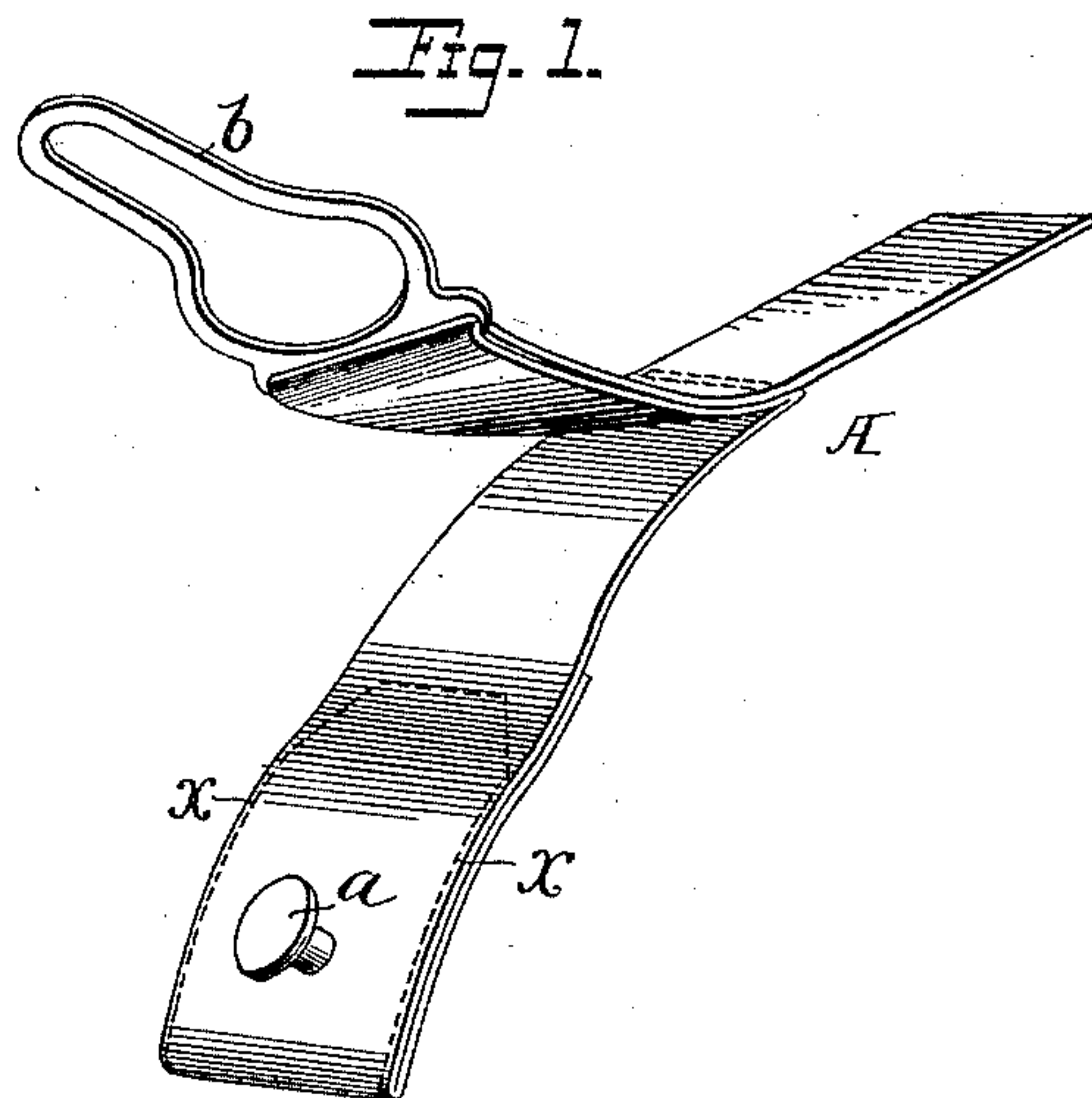


(No Model.)

DE VER H. WARNER.
STOCKING SUPPORTER.

No. 468,074.

Patented Feb. 2, 1892.



WITNESSES

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DE VER H. WARNER, OF BRIDGEPORT, CONNECTICUT.

STOCKING-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 468,074, dated February 2, 1892.

Application filed November 14, 1890. Serial No. 371,451. (No model.)

To all whom it may concern:

Be it known that I, DE VER H. WARNER, a citizen of the United States, residing at Bridgeport, Fairfield county, State of Connecticut, have invented certain new and useful Improvements in Stocking-Supporters, of which the following is a specification.

My invention relates to that class of stocking-supporters in which a flexible tape is provided with a stud and with a loop flexibly connected with the tape; and it consists of means, fully set forth hereinafter, for connecting the stud with the tape without exposing any portion of the metallic fastening.

In the drawings, Figure 1 is a perspective view of sufficient of a stocking-supporter to illustrate my improvements. Fig. 2 is a longitudinal section; Fig. 3, a plan view; Fig. 4, a perspective view of the stud and its supporting-plate; Fig. 5, a sectional view illustrating a modification.

The fastening consists, as usual, of two parts secured to the same tape A, one having a button *a* and the other a loop *b*, with an opening enlarged at one end for the passage of the head of the button and constructed at the other so as to receive the shank without permitting the passage of the head.

Heretofore in fastenings of this class the button has been connected to one end of the tape through the medium of metallic fastenings more or less exposed, so that the metal on the movements of the fastening is frequently brought into contact with the person of the wearer, causing discomfort and in some cases painful abrasion, while the presence of corners of the metallic fastening frequently results in wearing and cutting the stockings.

Further, in some classes of fastening devices the connection of the stud on the tape is such that it is extremely difficult to hold the stud in position when the loop is applied. To remedy these difficulties I connect the stud *a* with a rectangular plate *c*, the stud being preferably provided with a short nipple *e*, adapted to pass through the tape and through a central opening *i* in the plate, and being headed or exposed on the outside of the plate, so as to rivet the stud, the tape, and the plate firmly together. The plate should be of such

a width that the edges of the tape may project slightly beyond the same, the tape passed around the lower end and back beneath the plate and sewed along the lines *x x*, so that the plate is entirely inclosed in the fabric and no portion is exposed either to the wearer or to the stocking, while there are no edges that can abrade or cut the latter. While the plate is thus wholly inclosed by the folded tape it extends almost entirely across the width of the latter, so that it affords a firm support for the entire lower end of the tape, permitting it to be readily grasped and firmly held between the fingers to support it during the application of the loop for the purpose of confining the stocking to the stud. As will be seen, the lower edge of the plate bears upon the lower fold of the loop, so that the entire strain which is upon the stud *a* is borne by the fold of the loop instead of by the small nipple *e*, which passes through the upper portion of the fold, thus removing the danger of tearing out the stud and its supporting-plate. Preferably the plate *c* is square; but it may be oblong and of any desired length.

While I prefer to connect the stud and the plate by the means above described, I do not limit myself to this mode of construction, as a rivet *n*, having a head fitting a countersunk opening in the plate, may be passed through the latter and through a hollow stud and riveted at the upper end, as shown in Fig. 5, or any other suitable means of attachment may be employed. Thus the stud may be connected in some cases after the plate has been secured in the fold of the tape by means of a rivet or otherwise.

Without limiting myself to the precise construction and arrangement of parts shown, I claim—

1. The combination, in a stocking-supporter, of a flexible tape, a loop connected thereto, and a stud having its stem extending through the tape and connected with a rectangular plate which is wholly inclosed within a fold at the end of the tape and bears with its lower straight edge against the cross-fold of said loop, the stud constituting the only exposed metallic portion, substantially as set forth.

2. The combination, in a stocking-supporter,

of a tape folded to form a loop, and a stud wholly supported by a rectangular plate which is wholly inclosed by the loop and bears with its lower straight edge against the cross-fold 5 of the loop, the two portions of the latter being sewed together opposite the side edges of the plate, substantially as set forth.

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

DE VER H. WARNER.

Witnesses:

M. M. WHEATON,

J. H. AVERILL.