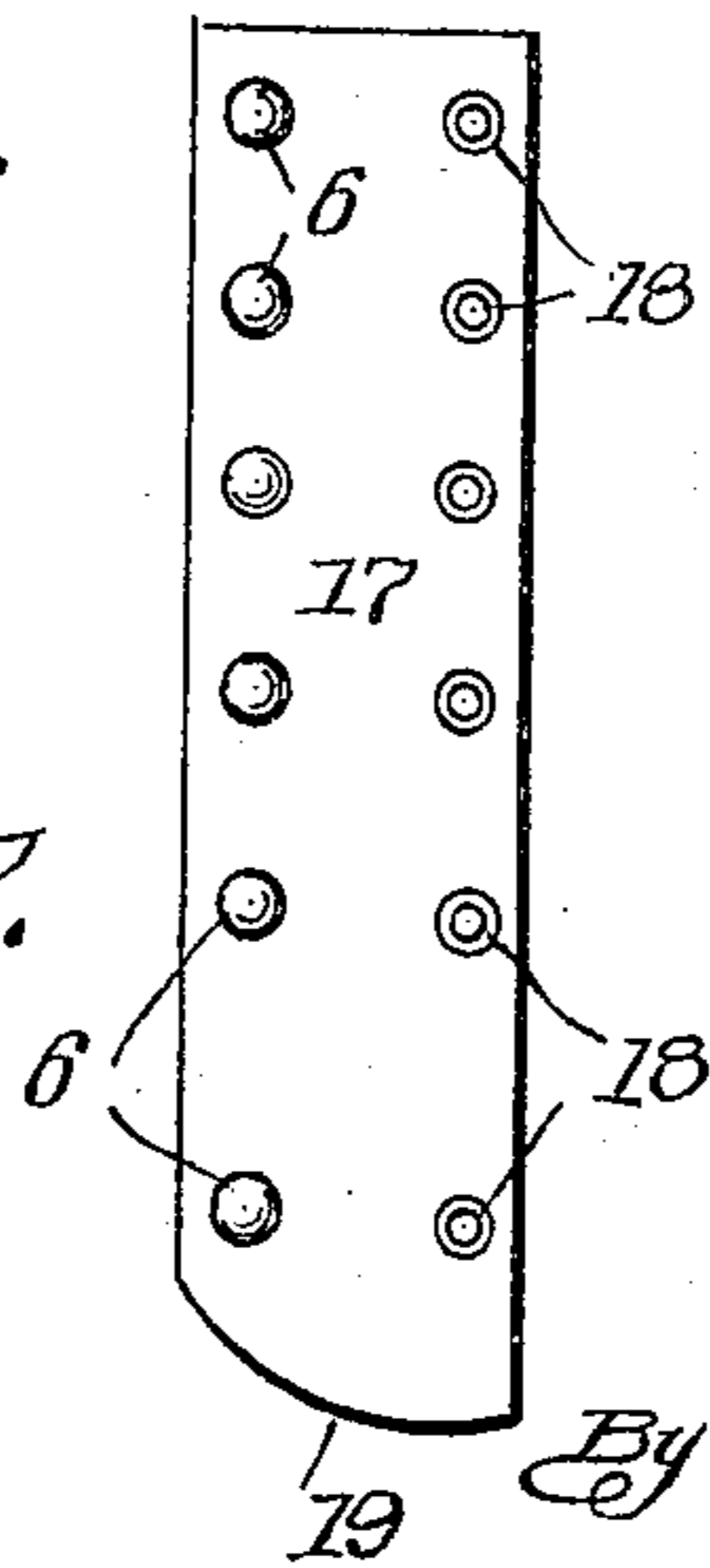
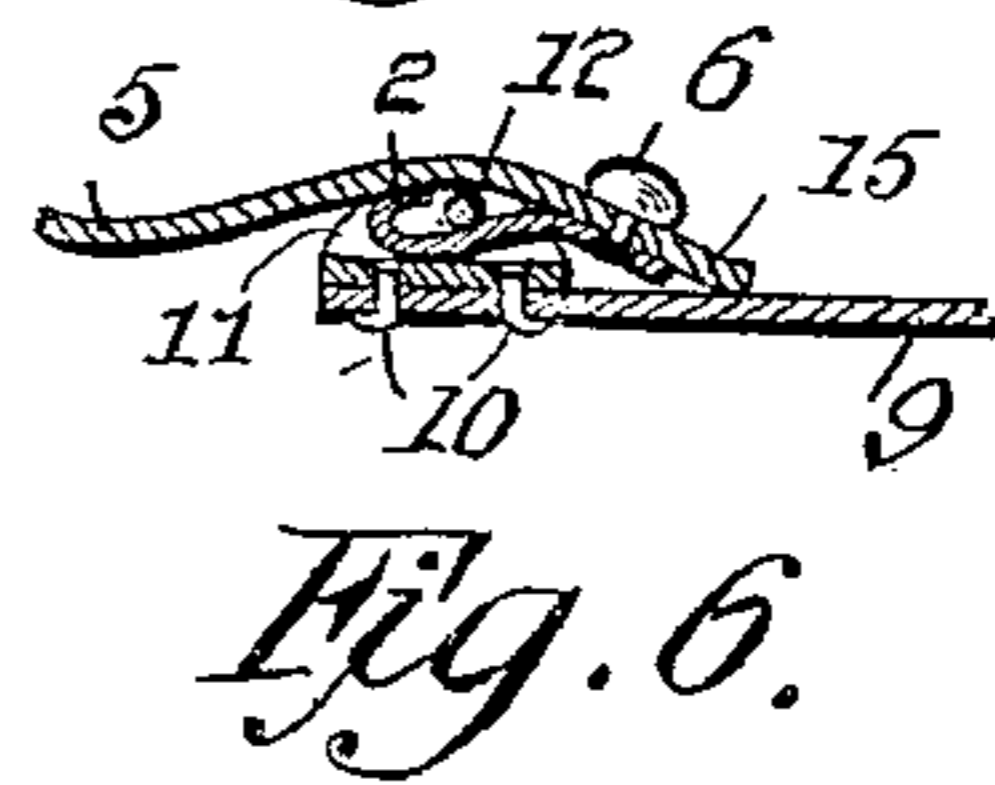
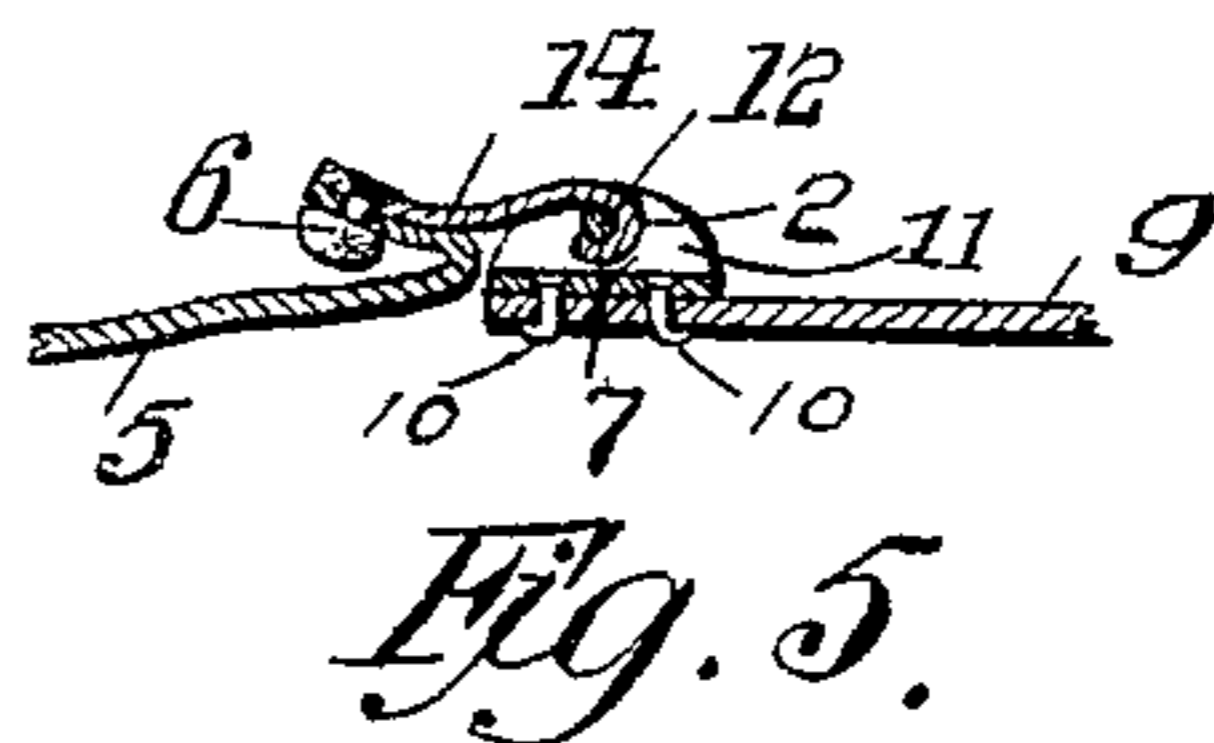
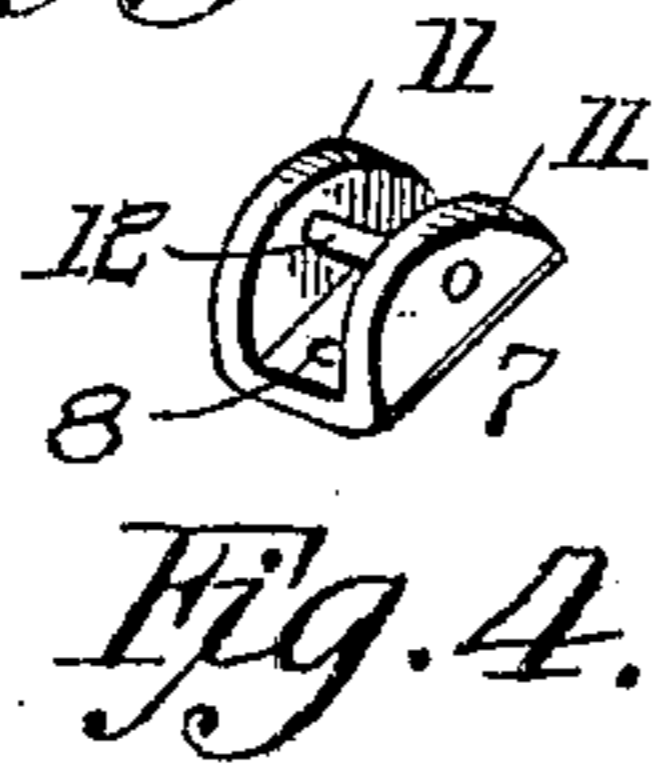
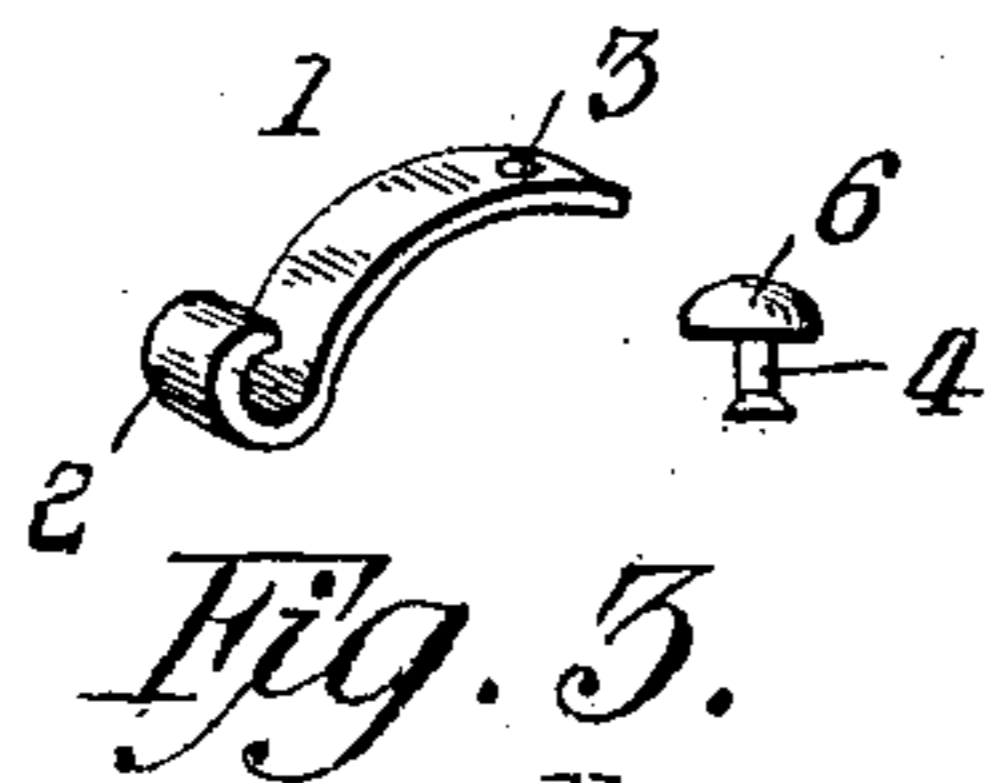
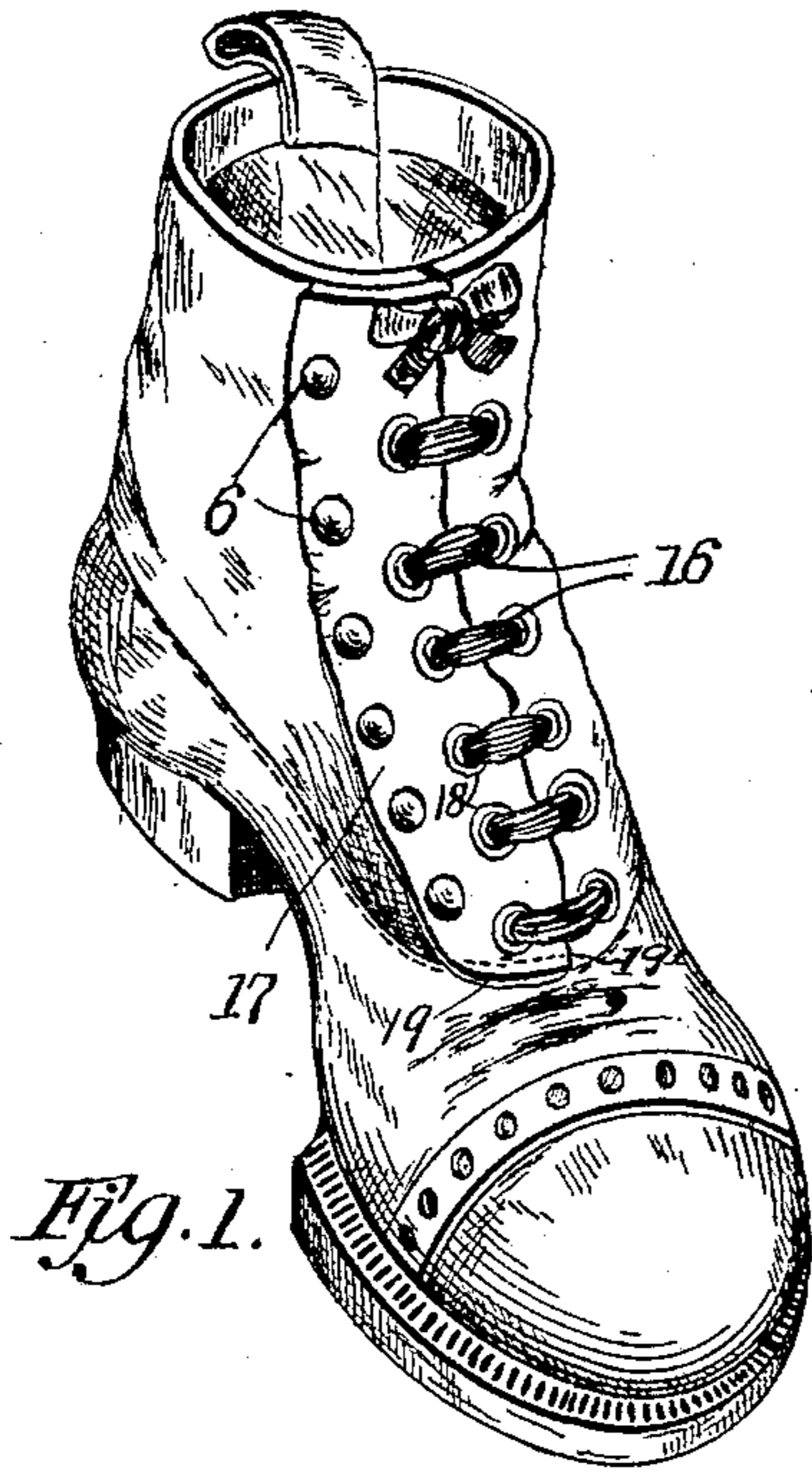


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H. S. HANSTINE & J. F. THOMPSON.
FASTENER.

APPLICATION FILED JULY 16, 1904.



Witnesses:

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UNITED STATES PATENT OFFICE.

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FASTENER.

No. 814,445.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed July 16, 1904. Serial No. 216,812.

To all whom it may concern:

Be it known that we, HARRY S. HANSTINE and JAMES F. THOMPSON, citizens of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to fasteners, and more particularly to fasteners which may be used upon shoes and like articles; and the invention has for its object the provision of novel means for securing two pieces of material together in a quick and easy manner, whereby they may be readily detached when desired.

Another object of our invention is to provide a fastener which is particularly adapted for use in connection with shoes and the like articles, and we employ novel means whereby a shoe may be fastened upon the foot of a person with considerable rapidity and the fastener so constructed as to present a neat and attractive appearance, and, if so desired, it may be used in connection with the ordinary laces and buttons that are commonly used as fasteners for footwear.

Briefly described, our improved fastener consists of providing a stirrup which is adapted to be carried by one piece of material to be secured together, and in case the same is used upon a shoe a plurality of these stirrups are mounted upon the upper of the shoe adjacent to the laces or in place of the buttons commonly used, and upon the other article to be secured to this first-named article is mounted a plurality of hooks, which are adapted to engage the stirrup and securely hold the two pieces of material together.

The above construction and the results derived therefrom will be more fully set forth, and specifically pointed out in the claims.

Referring to the drawings accompanying this application, Figure 1 is a perspective view of a shoe having the ordinary laces, showing our improved fastener used in connection therewith. Fig. 2 is a similar view of a shoe of the button form upon which our improved fastener may be used. Fig. 3 is a detail perspective view of a hook and rivet constructed in accordance with our invention. Fig. 4 is a detail perspective view of a stirrup

comprising one of the members of our improved fastener. Fig. 5 is a longitudinal sectional view of our improved fastener, showing the same in a position which will be assumed when two pieces of material are about to be secured together. Fig. 6 is a similar view showing the completed operation of securing two pieces of material together, and Fig. 7 is a plan view of a portion of the shoe constructed in accordance with our invention.

In the several views of the drawings accompanying this application like numerals of reference indicate similar parts, and while we have herein shown our improved fastener as being employed in connection with footwear we do not desire to limit ourselves to this particular article, but we wish it to be understood that the fastener may be used upon any articles wherein devices of this character are used. The fastener, which comprises two members, is illustrated in Figs. 3 and 4 of the drawings, the one member comprising a hook 1, which is preferably constructed of a flat piece of metal, this member being formed on a compound curve, the one curve 2 of which forms a hook, while the other curve is described upon a greater radius and the end of the member is provided with an aperture 3, through which a rivet 4 passes when the member is to be secured to a piece of material 5. The rivet is preferably formed with one of its heads to represent a button, as indicated at 6, the rivet being generally secured in the material, whereby this button-head will be upon the outside of the material and be visible. The other member of our improved fastener comprises a stirrup 7, this stirrup being in the form of a U-shaped piece of metal, the horizontal portion of which is provided with apertures 8 8, whereby the same may be secured to a piece of material 9 by rivets 10 10. The sides of the stirrup are semicircular in contour, as designated by the reference-numerals 11 11, and between these sides is mounted a pin 12.

Reference will now be had to Figs. 5 and 6 of the drawings, wherein we have illustrated the mode of securing two pieces of material 5 and 9 together, and the operation consists of bending the edge of the piece of material 5 upon itself, as designated by the reference-numeral 14, whereby the hook portion 2 of the member 1 will project outwardly and may be brought into engagement with the

pin 12, as shown in Fig. 5, this operation permitting the piece of material 5 to be placed in close proximity to the piece of material 9. When the hook has engaged the pin 12, the bent-over portion of the piece of material 5 is carried over the stirrup 7 to the position shown in Fig. 6 of the drawings, the bent-over portion of the piece of material lying in engagement with the piece of material 9, as designated by the reference-numeral 15, and the fastener being invisible owing to the piece of material 5 covering the same. When the two pieces of material assume the position shown in Fig. 6, the piece of material 5 will be drawn rearwardly to such an extent as to cause the pin 12 to be pressed between the piece of material 5 and the curved portion of the member 1, this movement of the member 1 drawing the piece of material 5 into engagement with the piece of material 9 and securely clamping the two pieces together.

The operation above described applies to any two pieces of material that are to be secured together, the same mode of procedure being employed when the fastener is used upon footwear.

In Fig. 1 we have shown the fastener as being employed in connection with the shoe where it is desired to retain the ordinary laces 16 commonly used, and in this event an extra strip of leather 17 is employed, this strip being provided with eyelets 18 upon its one edge to receive the laces 16, and upon the other edge of the piece of material 17 are provided the members 1 of our improved fastener, and in Fig. 1 of the drawings the button end 6 of the rivets 4 is visible. When this strip is employed in connection with the shoe, the same is laced to the upper of the shoe and is adapted to be secured to the other half of the upper by our improved fastener, the stirrups being secured to the upper in positions whereby the member 1 of the strip of material 17 may be readily locked in engagement with said stirrups. If it be so desired, the lower end 19 of the strip may be sewed to the body portion of the shoe, as indicated by the dotted line 19' near the bottom of the strip in Fig. 1, whereby it will be made a part of the shoe, and in case the laces are dispensed with, as would be the case where buttons are employed, as shown in Fig. 2, it would be impossible for the strip 17 to become disengaged from the shoe.

By referring to Fig. 2 of the drawings it will be observed that we have illustrated a button-shoe, and where our improved fastener is to be employed the buttons and the button-holes of the upper are dispensed with and in place of the buttons being secured to one side of the upper we secure the stirrup member of our improved fastener and in place of the buttonholes employ the member 1 and the rivet 4, the button end 6 of the rivet representing a button, as clearly shown in Fig. 2 of the drawings.

It will thus be observed that we have provided a fastener which may be quickly operated, and in constructing the same we have made the fastener as simple as possible, whereby the expense of manufacture is reduced to a minimum, at the same time maintaining a construction which will be strong and durable and highly efficient for securing two pieces of material together when so desired.

It will be noted that we may employ any number of these fasteners upon such articles as footwear and that the general arrangement of the fasteners thereon may be changed without departing from the scope of the invention.

What we claim is—

1. In a fastening for shoes, the combination with an underlying flap and a plurality of stirrups riveted to the said flap, each stirrup comprising a U-shaped piece and a cross-pin, of an overlying flap and a plurality of hooks riveted to the overlying flap, each hook extending inwardly from the point of attachment to the fly and having a bent end returned on the body of the hook adjacent the inner surface of the overlying flap.

2. The combination with a shoe-upper having an overlying flap and underlying flap, of curved hooks attached to one flap on the under side thereof, buttons having shanks which serve to attach said hooks to said flap, the said hooks being formed with return-bends on their ends, and stirrups rigidly secured to the underlying flap, said stirrups engaging said hooks.

In testimony whereof we affix our signatures in the presence of two witnesses.

HARRY S. HANSTINE
JAMES F. THOMPSON.

Witnesses:

H. C. EVERT,
E. E. POTTER