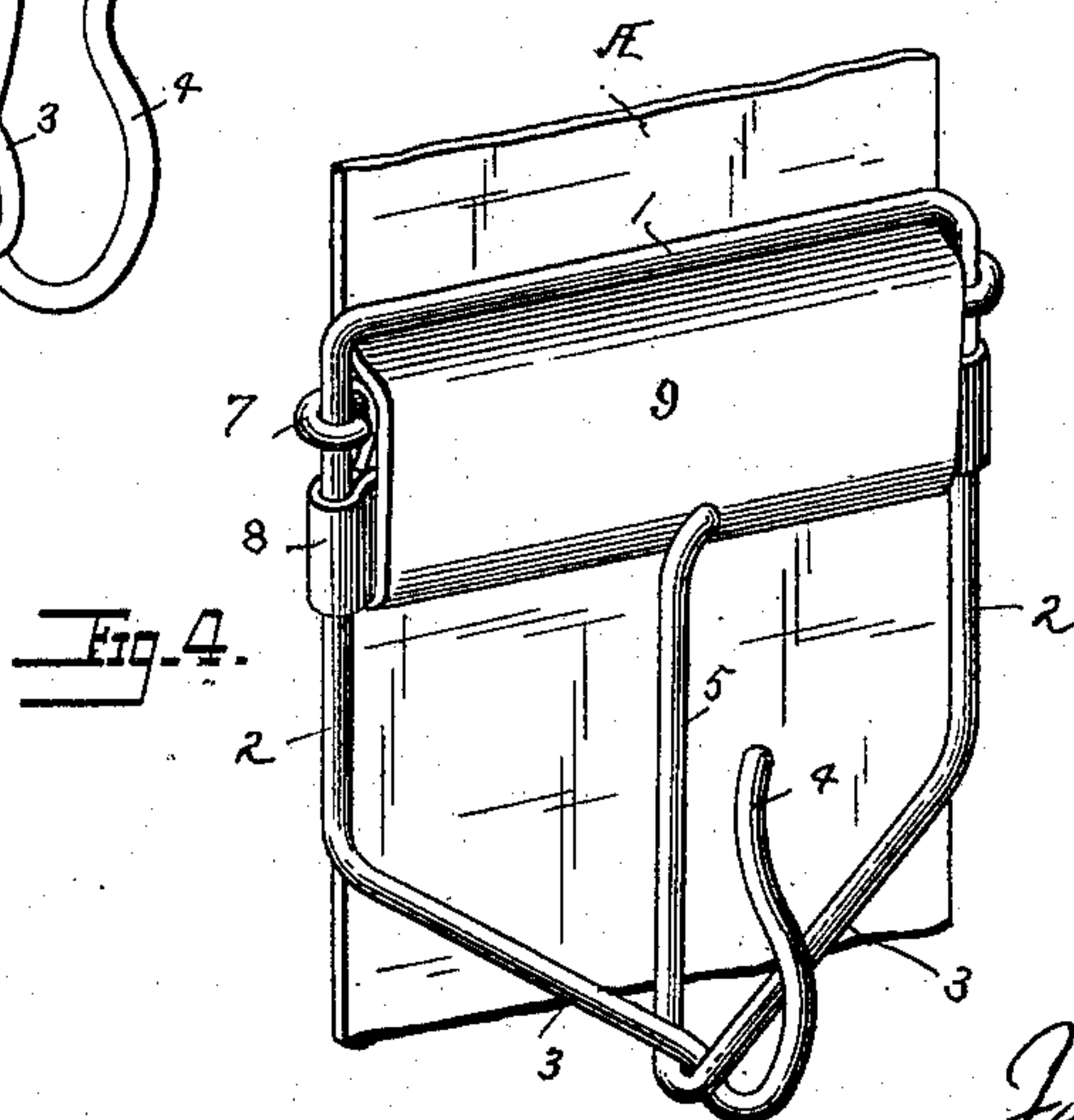
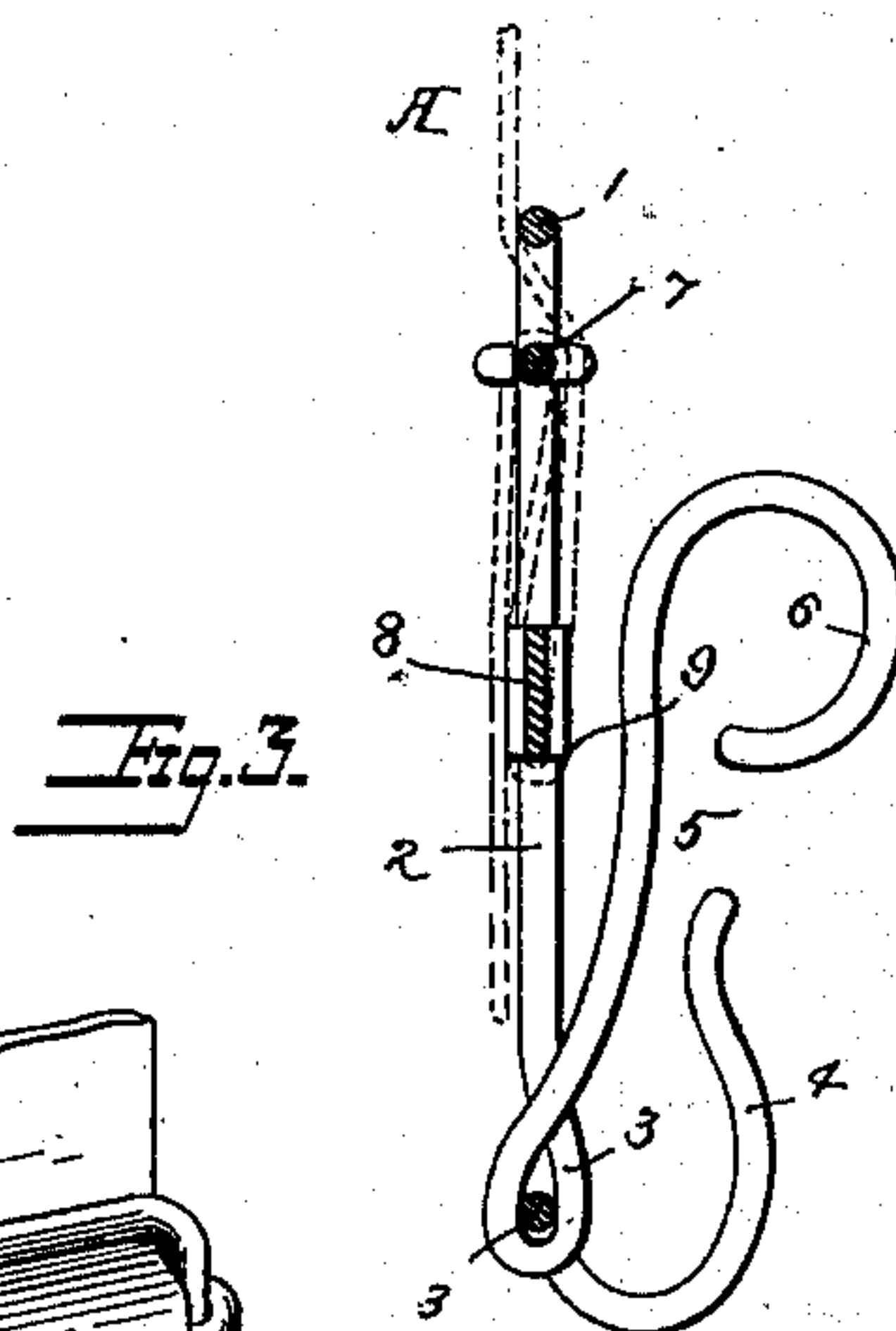
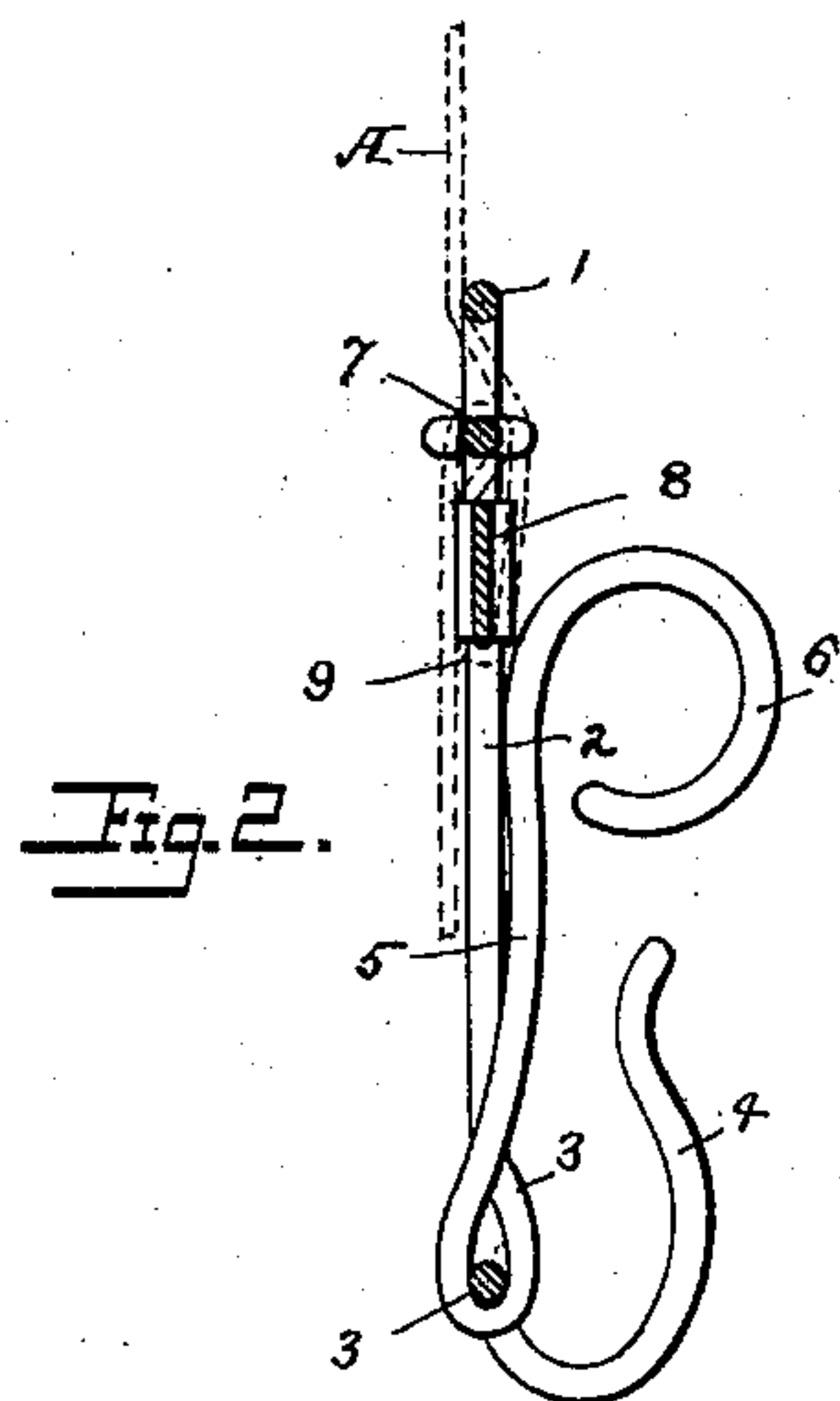
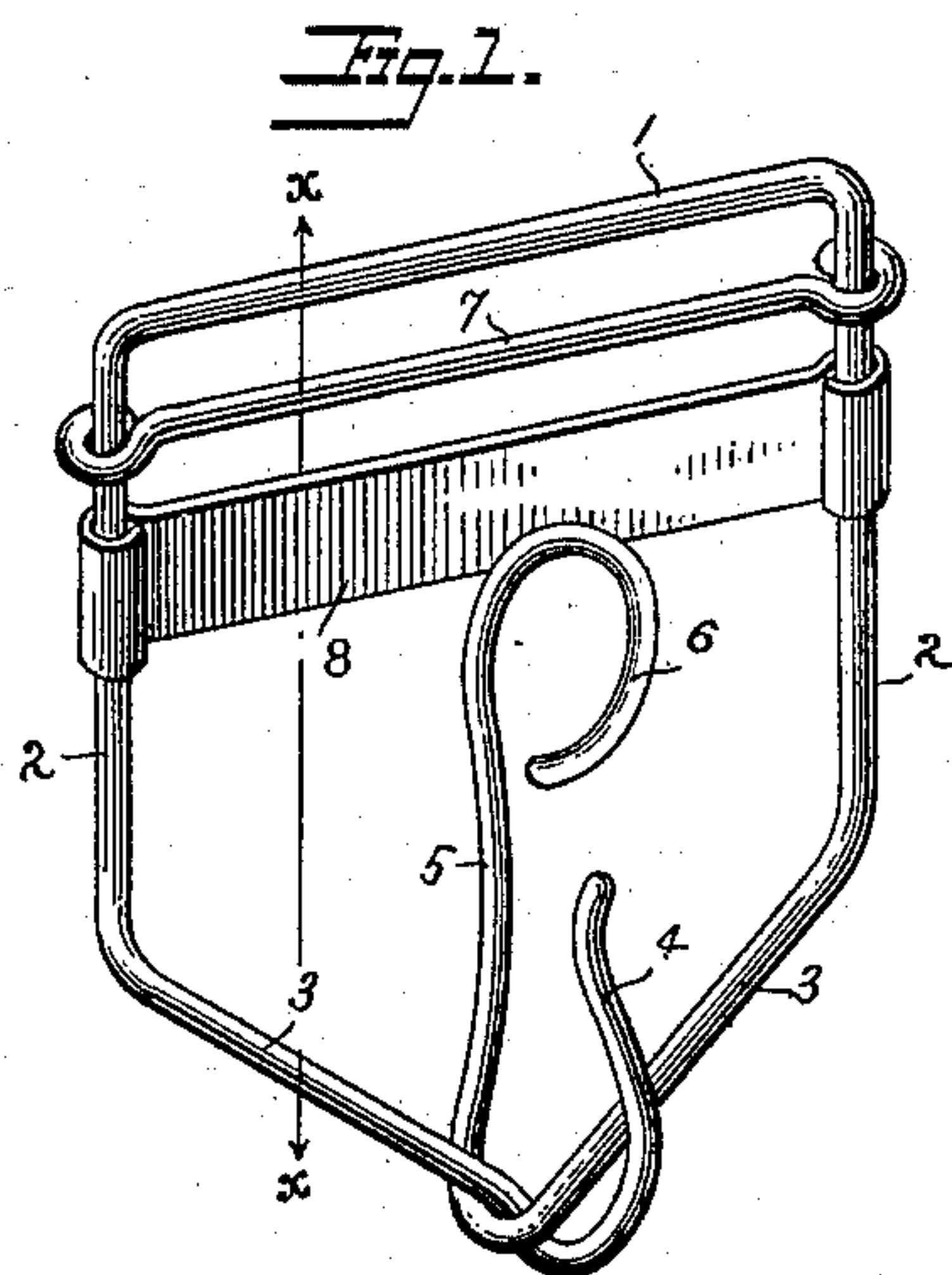


(No Model.)

J. A. ELLIOTT.
BACK BAND HOOK.

No. 410,081.

Patented Aug. 27 1889.



Witnesses
J. G. Hinkel Jr.
A. E. Farnham.

Julius A. Elliott
Inventor

By his Attorney, J. S. Barker.

UNITED STATES PATENT OFFICE.

JULIUS A. ELLIOTT, OF NORFOLK, VIRGINIA, ASSIGNOR OF ONE-HALF TO
ALBERT S. J. GAMMON, OF SAME PLACE.

BACK-BAND HOOK.

SPECIFICATION forming part of Letters Patent No. 410,081, dated August 27, 1889.

Application filed April 11, 1889. Serial No. 306,815. (No model.)

To all whom it may concern:

Be it known that I, JULIUS A. ELLIOTT, a citizen of the United States, residing at Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Back-Band Hooks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to back-band hooks; and it consists in a hook so constructed that it may be easily applied to and adjusted upon the back-band, that no part of the hook itself shall lie directly against the animal, and that after the hook has been adjusted it is held in place without the use of spurs or other projections which tend to perforate or tear the band.

Figure 1 is a perspective view of a back-band hook embodying my invention. Figs. 2 and 3 are sections on the line $x x$, showing the parts in different positions. Fig. 4 is a perspective view of a different form of my invention.

In the drawings, A represents the back-band or strap to which the hook is applied, such hook being by preference formed of a single piece of elastic wire. This wire is bent to form the frame of the hook, consisting of the top cross-piece 1, the parallel side bars or pieces 2, and the converging end pieces 3, while one end portion of the wire forms the trace-hook 4, and the other end portion serves as a finger 5, adapted to bear against the band A and prevent it from slipping.

7 is a cross-bar extending between the side bar of the hook-frame, parallel with and close to the end piece 1 thereof. It consists, preferably, of a wire, the ends of which are bent to form eyes encircling the side pieces 2, and thereby clamping or holding it from sliding upon the said pieces.

8 is a slide, also mounted upon the side pieces 2, but free to move thereon. It consists, by preference, of a piece of thin sheet

metal bent at its end to form comparatively long sleeves which encircle the bars 2.

The hook is preferably placed upon and secured to the band in the manner illustrated in Figs. 2 and 3, where the position of the band is indicated by dotted lines. As shown therein, the band passes in rear of the cross-piece 1, between it and the cross-bar 7, then downward in front of the bar 7 and the slide 8, around which latter it turns, and then passes in rear of the slide and between it and the cross-bar 7, in front of which the band again passes, and then turning around this bar passes downward in rear of the bar 7, slide 8, the hook 4, the finger 5, and the bars 3. I prefer this method of securing the band and hook, since it prevents any metallic portion of the hook from coming in contact with the animal. When the hook is being placed or adjusted upon the band, the slide 8 is moved away from the cross-bar 7, as shown in Fig. 3, elongating the looped portion of the band, thus rendering it easy to loosen and slip the band between the cross-bars or pieces 1, 7, and 8, and consequently to adjust the hook. After the hook has been properly adjusted or placed upon the band, the slide 8 is moved into the position shown in Fig. 2, reducing the loop 9, and increasing the angles of the bend, and when in such position any strain upon either end of the band will tend to draw the slide toward the cross-bar 7, and thus, by further reducing the loop and increasing the angles, clamping the band and preventing the hook from slipping thereon.

As a further means of preventing the hook from slipping upon the band, I so form the finger 5 that it constitutes a spring and normally bears on the band and presses it against the slide 8, or one of the rigid cross-bars, when the slide is not used, and thus acts to clamp the band. When the slide is to be moved away from the bar 7, the finger 5 may be sprung forward out of the way, as indicated in Fig. 3. I prefer to form the end of the finger 5 into an open loop or eye 6, through which the rein may be passed.

I do not limit myself to all the details of construction which I have illustrated and

described, as they may be varied without departing from my invention. Thus where the slide 8 is employed the spring-finger 5 might be dispensed with, and on the other hand the spring-finger might be used advantageously in a back-band having a fixed cross-piece in place of the slide 8.

Neither do I wish to be limited to making the frame of the hook of a single piece of elastic wire, since it might be cast or formed of two or more pieces, suitably united.

I claim—

1. A back-band hook comprising a frame having at one end the bars 3, provided with a hook, the intermediate bar 7, and the slide, the bar 7 being separated from the end bar of the frame to permit the passage of the back-band between them in order that it may be looped around the slide, substantially as set forth.

2. A back-band hook comprising a frame having the side bars and the end bars 1 and 3, the latter provided with a hook, the intermediate stationary cross-bar 7, and the flat

slide 8, having long sleeves which surround the side bars, upon which the slide is free to move, substantially as set forth.

3. A back-band hook comprising a frame having at one end the bars 3, provided with a hook, an intermediate cross-bar in front of which the back-band is adapted to pass, and a spring-finger carried by the frame and arranged opposite the said intermediate cross-bar, toward which it is held with a yielding pressure to bear against the back-band, substantially as set forth.

4. A back-band hook consisting of a frame formed of a single piece of wire bent to constitute the cross-piece 1, the side pieces, the end pieces 3, the hook, and the spring-finger 5, an intermediate cross-bar, and a slide, substantially as set forth.

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

JULIUS A. ELLIOTT.

Witnesses:

BRUCE SIMMONS,
A. S. J. GAMMON.