

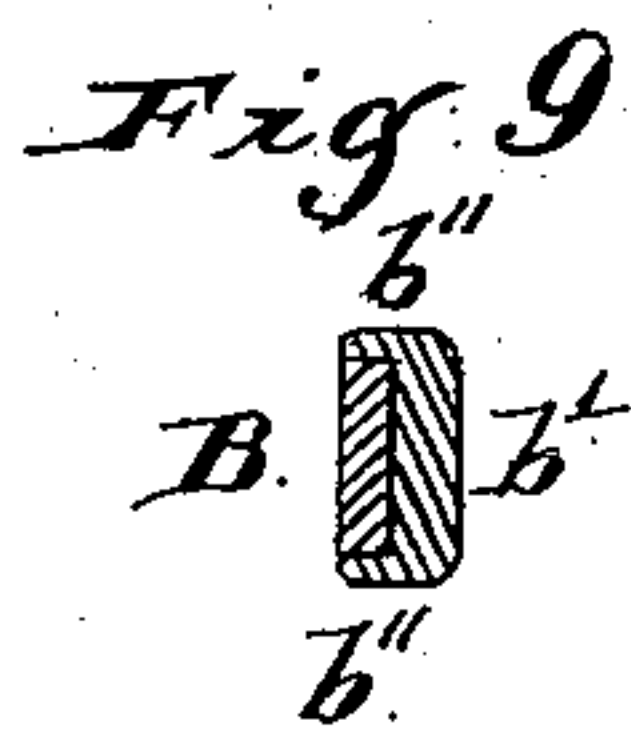
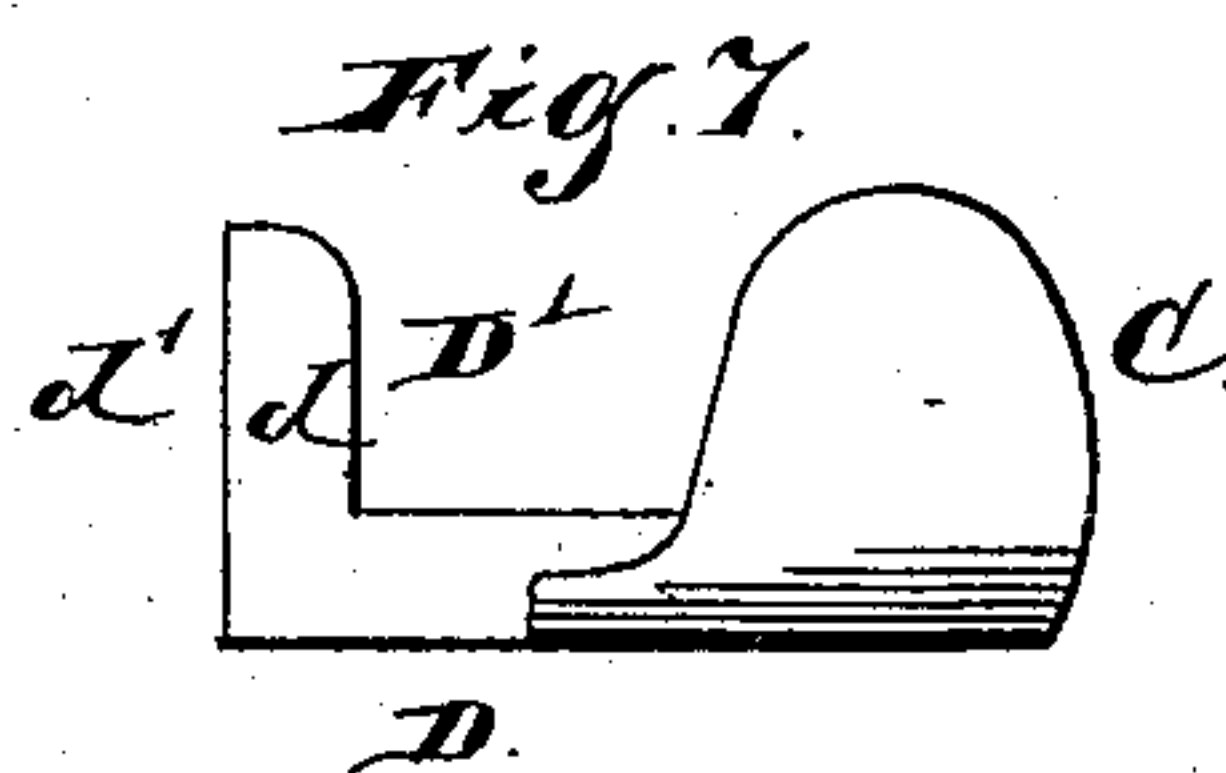
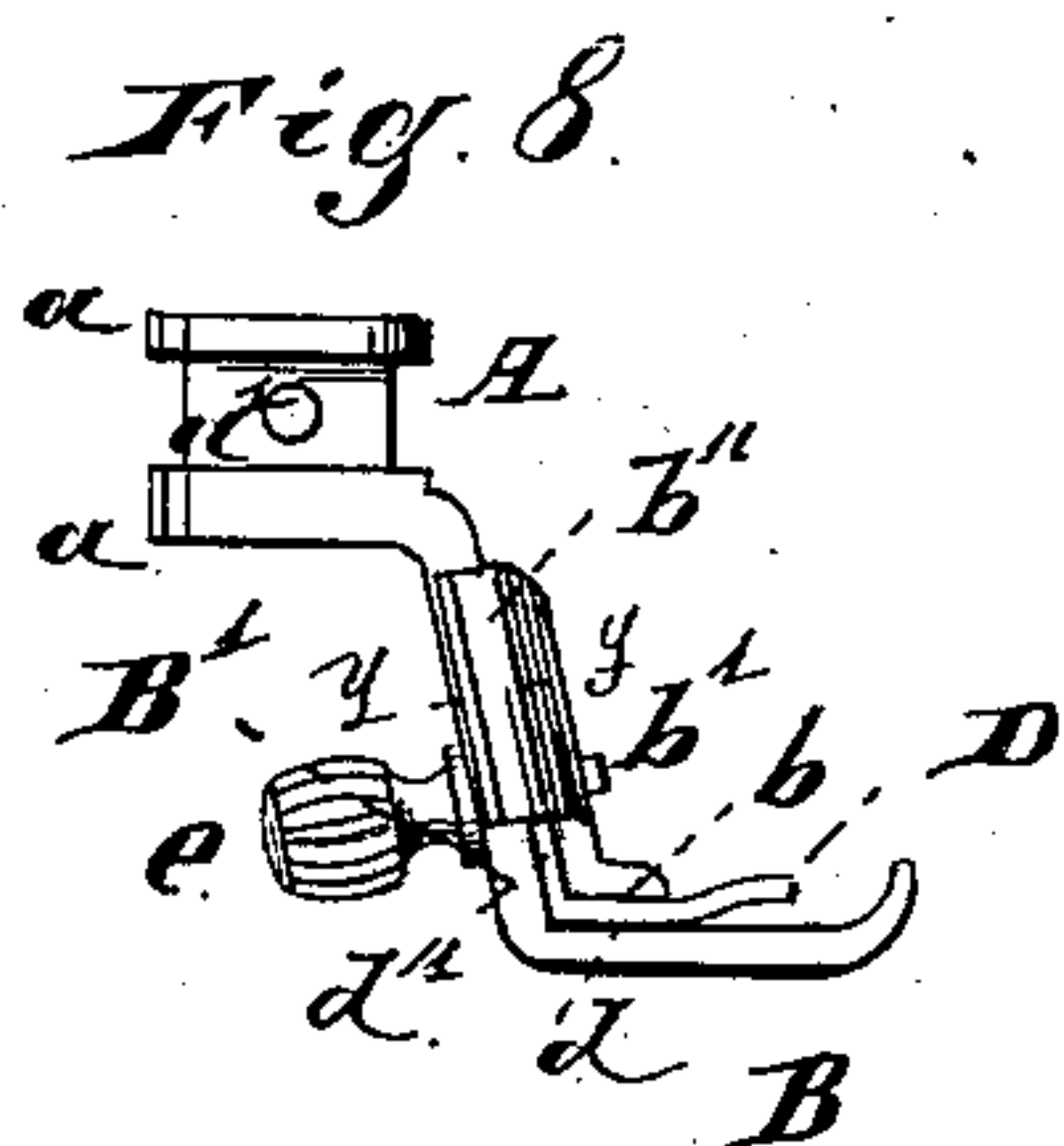
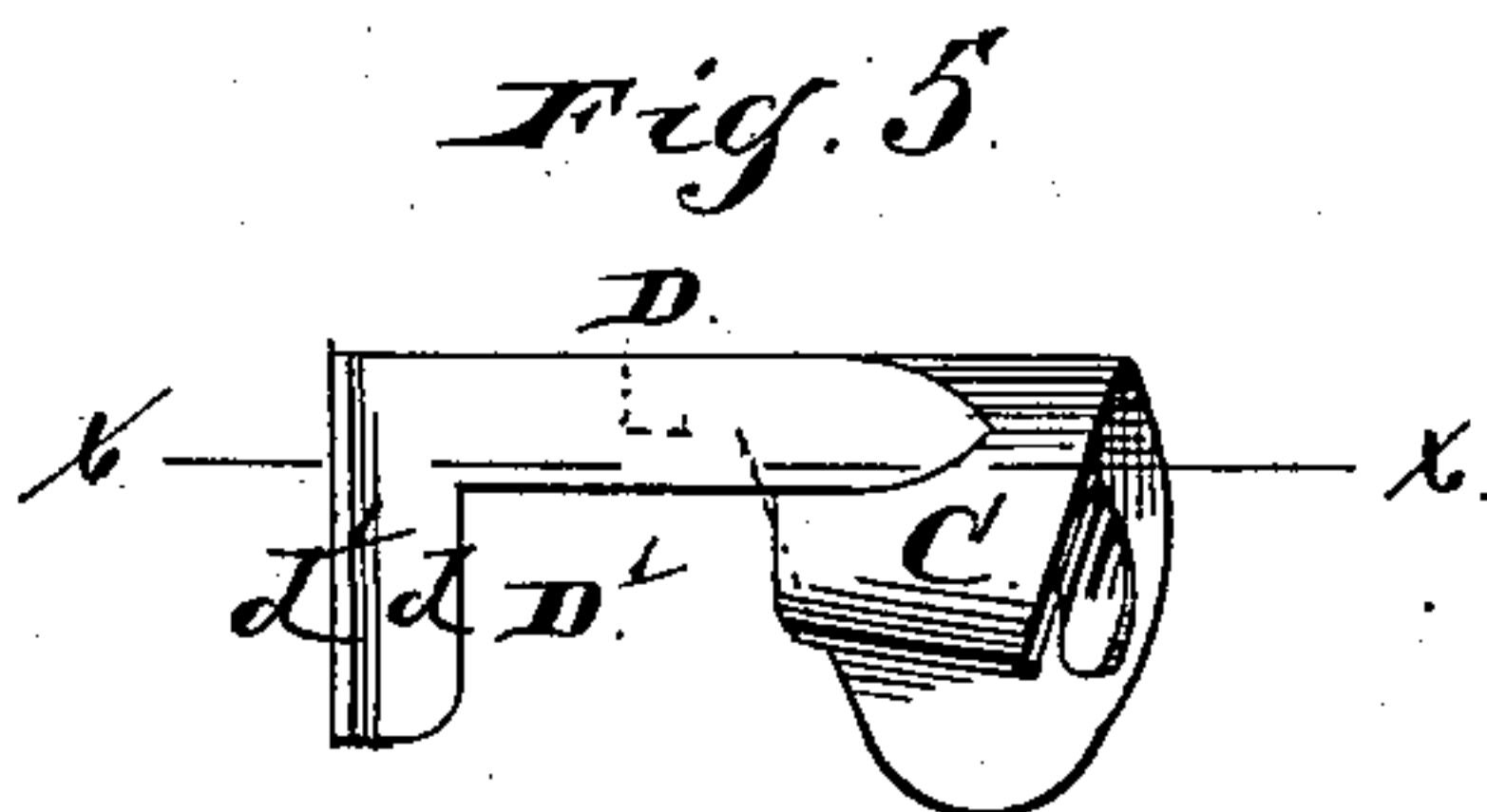
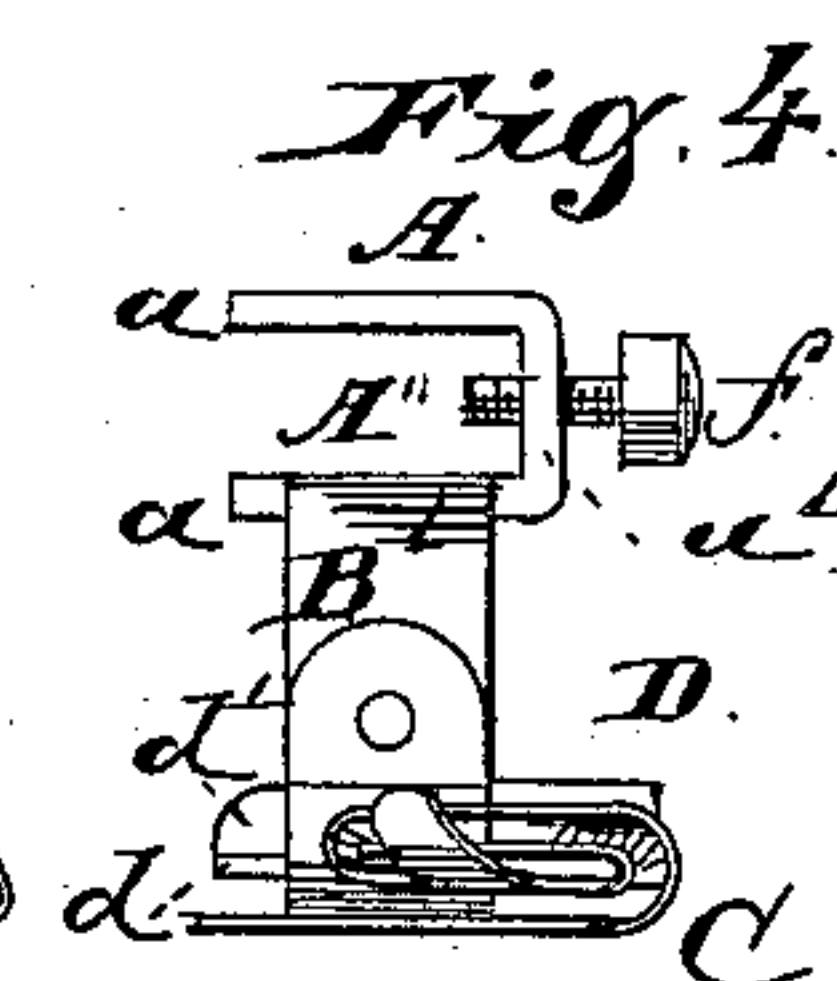
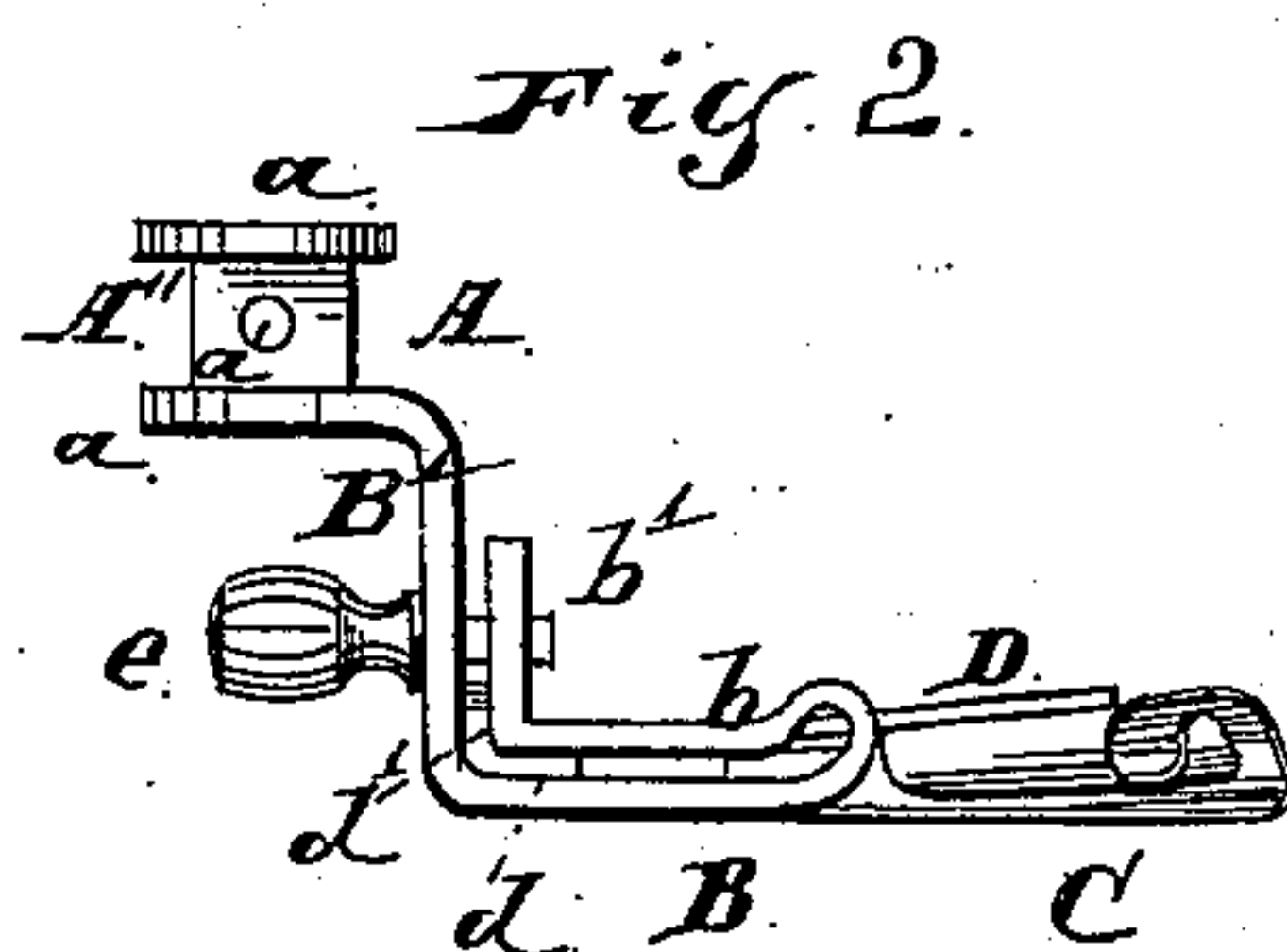
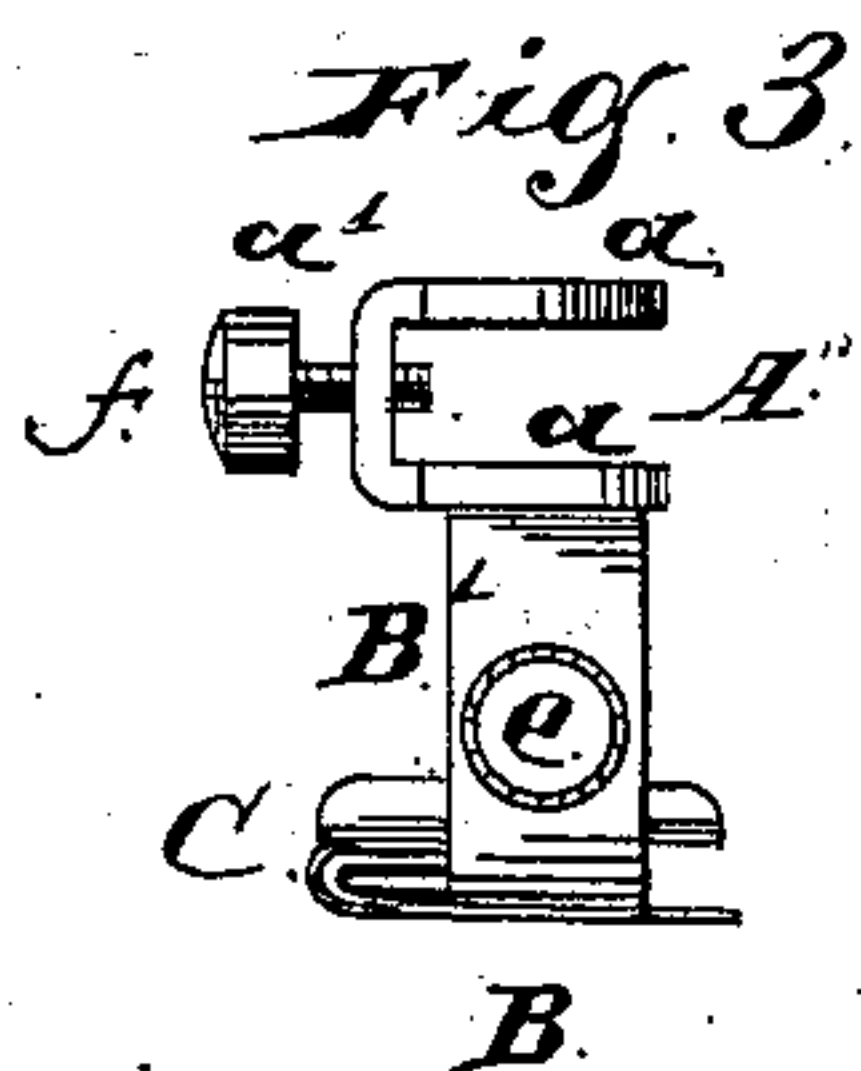
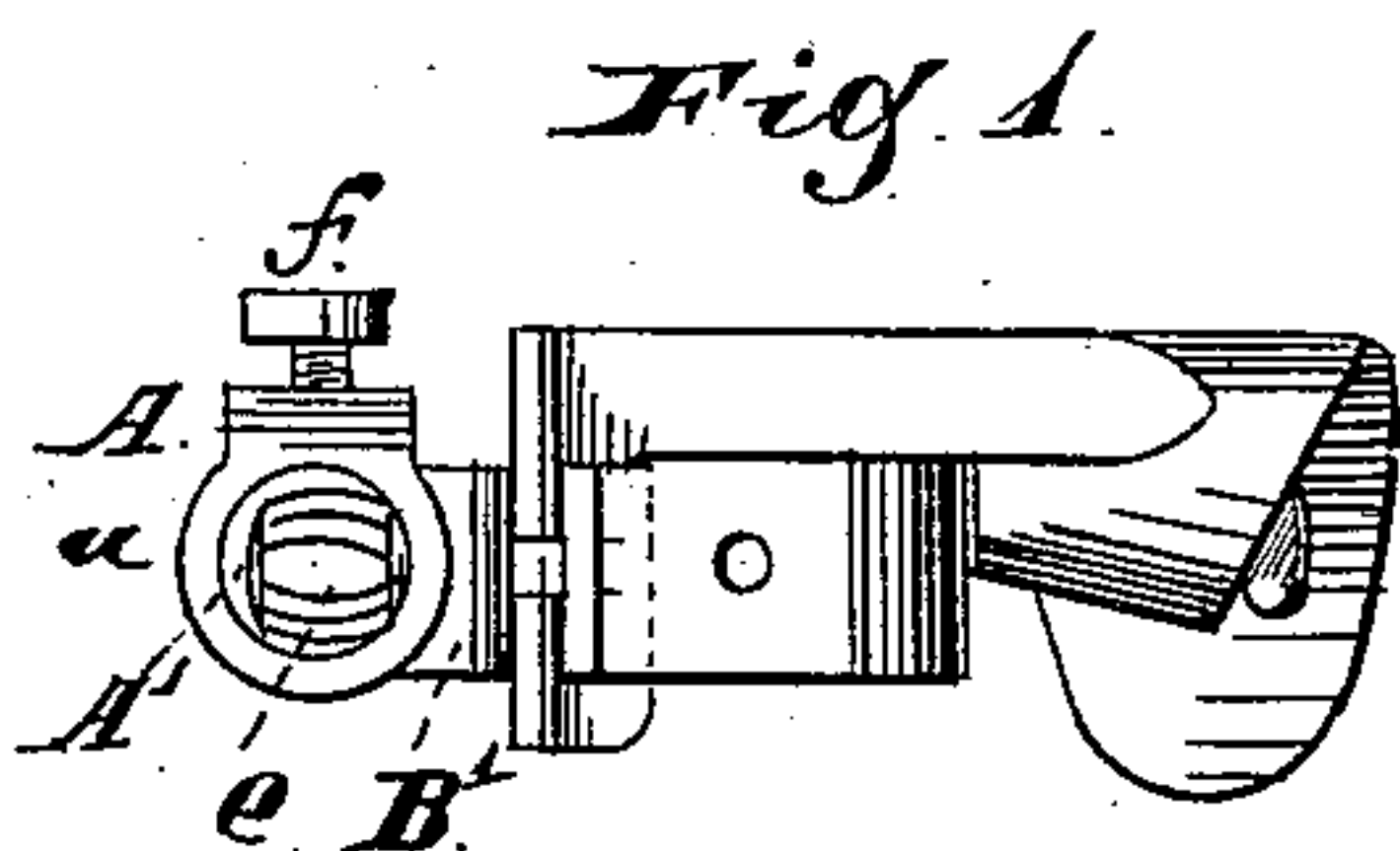
(Model.)

F. L. GOODRICH.

COMBINED PRESSER FOOT AND CLAMP FOR HOLDING SEWING
MACHINE ATTACHMENTS.

No. 324,247.

Patented Aug. 11, 1885.



Witnesses:

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Albert H. Davis.

Inventor:

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UNITED STATES PATENT OFFICE.

FRANK L. GOODRICH, OF CHICAGO, ILLINOIS.

COMBINED PRESSER-FOOT AND CLAMP FOR HOLDING SEWING-MACHINE ATTACHMENTS.

SPECIFICATION forming part of Letters Patent No. 324,247, dated August 11, 1885.

Application filed December 24, 1883. (Model.)

To all whom it may concern:

Be it known that I, FRANK L. GOODRICH, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented a new and useful Improvement in a Combined Presser-Foot and Clamp for Holding Sewing-Machine Attachments, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a top or plan view; Fig. 2, a side elevation; Fig. 3, a rear elevation; Fig. 4, a front elevation; Fig. 5, a top or plan view of a hemmer and its attaching-arm; Fig. 6, a section on line *xx* of Fig. 5; Fig. 7, a bottom view of a hemmer and its attaching-arm; Fig. 8, a side elevation showing a modification in applying the clamp; Fig. 9, a section through the clamp on line *yy* of Fig. 8.

The object of this invention is to construct a presser-foot for sewing-machines from a single piece of suitable metal, and thereby dispense with the large portion of the labor heretofore required in milling and finishing up presser-feet, and also to combine with such presser-foot a clamping device by which other attachments can be secured to the foot and held firmly in position; and its nature consists in forming a presser-foot from a single strip or bar of metal bent into shape to form the shank or head and the foot proper, as hereinafter more specifically described, and in combining with such presser-foot a coacting piece and a set-screw by which an arm or support carrying a hemmer or other attachment can be readily and quickly secured in place, as hereinafter more specifically described, and pointed out in the claims.

In the drawings, A represents the head or portion which is attached to the presser-bar, which head is formed by cutting out two circular rings, *a*, in each of which is an opening, A', to receive the end of the presser-bar, which rings are joined by a neck, *a'*, leaving a space, A'', between the rings, as shown in Figs. 2 and 3. The neck *a'* has a screw-threaded opening to receive the stem of a set-screw, *f*, by which the device is firmly clamped to the presser-bar, and when bent into shape the rings *a* stand in parallel planes and at right angles to the neck *a'*, as shown in Figs. 2 and 3.

B is the presser-foot, connected with the

head A by a strip, B', which strip and the presser-foot B continue out from the lower ring, *a*, of the head, as shown in Fig. 2, the piece forming the presser-foot being of the required width for the width of the foot. As shown in Figs. 1 to 4, inclusive, the piece forming the presser-foot is turned at its forward end and runs back on itself, and its inner end is turned at right angles, as shown in Fig. 2, and this turned portion *b b'* forms a clamp for holding other attachments. The necessary pressure for holding purposes is provided by a set-screw, *e*, the stem of which passes through the standard B', and enters a screw-threaded opening in the end or jaw *b'* of the clamp, as shown in Fig. 2.

C is a plate-hemmer of the usual construction, attached to the end of an arm or support, so as to properly coact with the presser-foot when in position for use.

D is the arm or support, having its end D' standing at right angles to the main portion, as shown in Figs. 5 and 7, and this end D' is bent so as to have two parts, *d d'*, which stand at right angles, or nearly so, to each other; and this end D' is slipped into the clamping device of the presser-foot to have one portion, *d*, between the presser-foot and the part *b* of the clamp, and its other portion, *d'*, between the standard B' and the end or jaw *b'* of the clamp below the set-screw *e*, as shown in Fig. 2, so that by drawing the clamp *b b'* down by turning the set-screw the parts *d* and *d'* will be firmly clamped, holding the bar D and the attachment which it carries firmly in position.

The rings *a*, with the neck *a'*, form a head for attachment to the presser-bar through the set-screw *f*, and the presser-foot and its standard are formed from the same piece of metal, and the blank from which these parts are formed can be cut from the plate by means of a suitable die. It will also be seen that by turning the portion which forms the presser-foot proper back on itself, as shown and described, a bite or clamp is likewise formed from the same piece of metal from which the head and foot are formed.

In use the presser-foot is secured to the bar by slipping the head A on the bar and securing it by the set-screw *f*, and when the presser-foot is to be used alone this is all that is required; but when some other attachment is to

be used in connection with the foot such attachment has its arm or support D slipped into the clamp and locked firmly by the set-screw *e*, and such attachment can be readily removed when through with by simply loosening the set-screw and withdrawing the arm or support from the clamp, leaving the presser-foot in condition for use without any other change.

10 Instead of forming the clamp from a continuation of the presser-foot, such clamp might be made of an independent piece, as shown in Fig. 8, in which case the portion *b* is shortened, and the portion *b'* is provided with side flanges, *b''*, which clasp the standard *B'*, as shown in Fig. 9, and form guides to keep the movable portion of the clamp in place. The end *D'* of the arm or support carrying the attachment is slipped into place in the clamp

and held by the set-screw *e* in the manner already described for the other form of construction.

What I claim as new, and desire to secure by Letters Patent, is—

1. A presser-foot made from a single piece of material, having its lower extremity bent back upon itself to form a clamp, substantially as described.

2. A presser-foot made from a single piece of material, bent as shown and described, in combination with a clamp or jaw, *b b'*, and set-screw *e*, for securing other attachments in position, substantially as specified.

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Witnesses:

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