

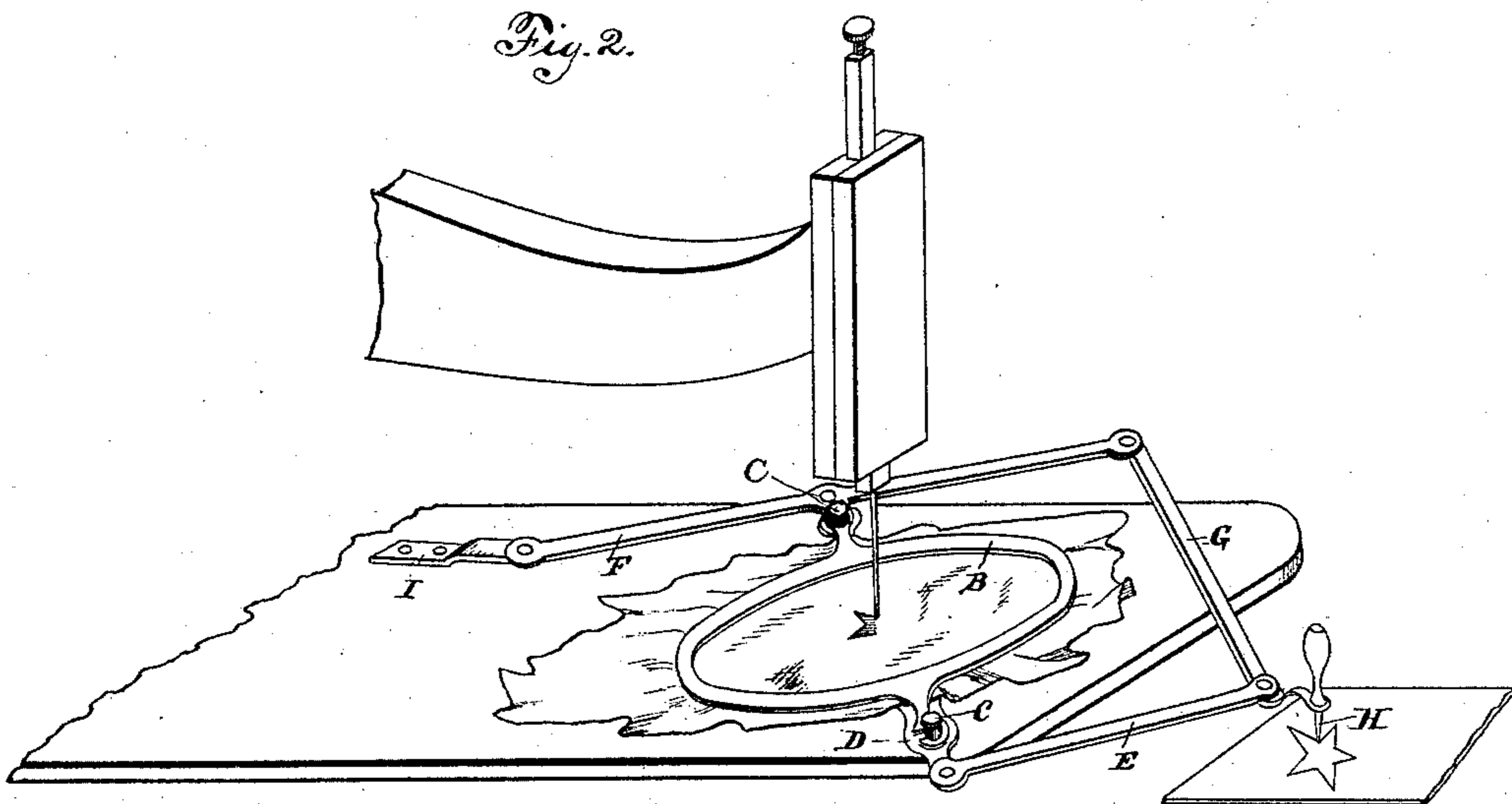
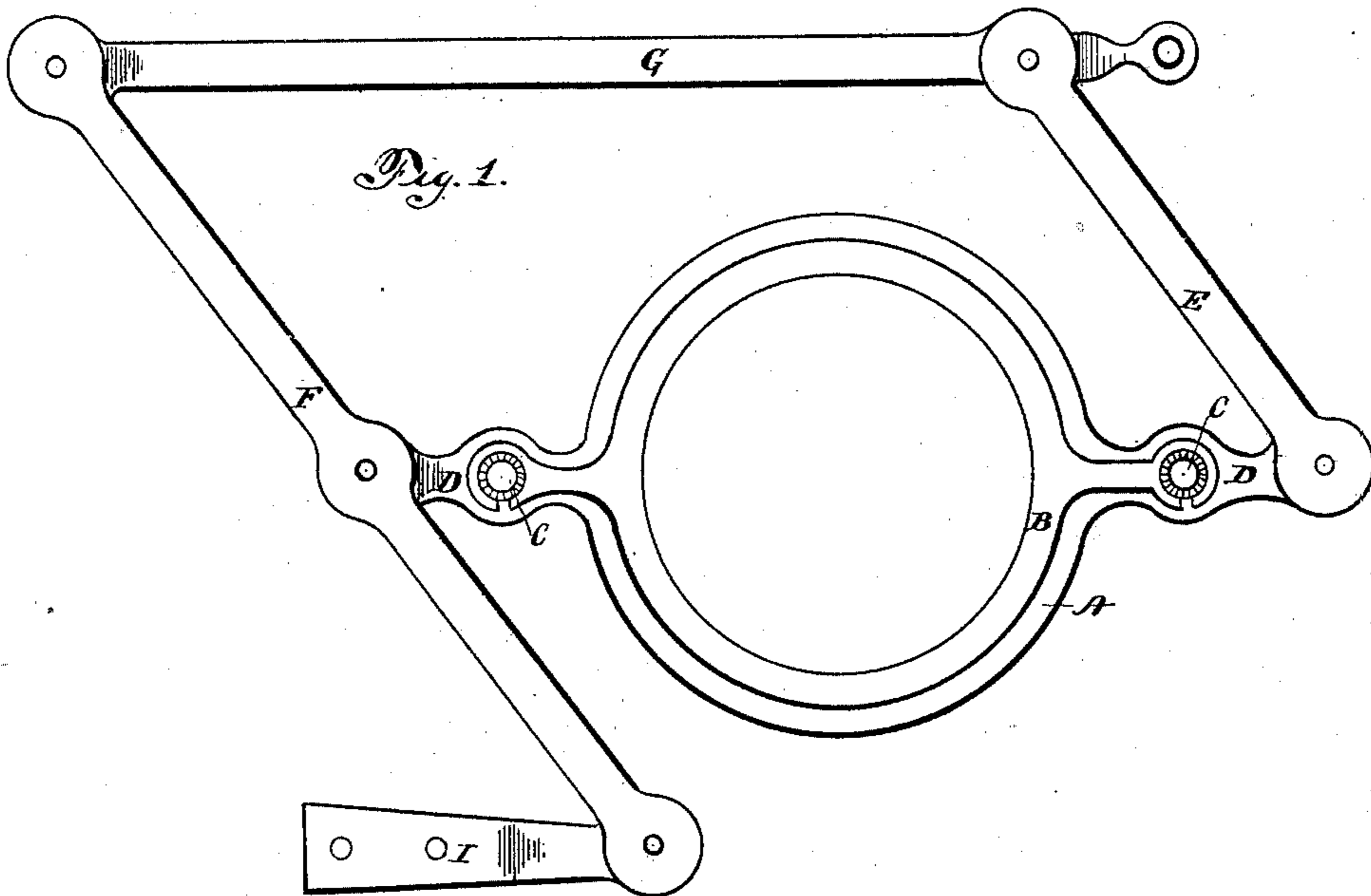
(Model.)

J. A. HOUSE.

EMBROIDERING ATTACHMENT FOR SEWING MACHINES.

No. 435,062.

Patented Aug. 26, 1890.



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UNITED STATES PATENT OFFICE.

JAMES ALFORD HOUSE, OF BRIDGEPORT, CONNECTICUT.

EMBROIDERING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 435,062, dated August 26, 1890.

Application filed April 11, 1887. Serial No. 234,336. (Model.)

To all whom it may concern:

Be it known that I, JAMES ALFORD HOUSE, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Pantographic Clamps for Sewing-Machines; and I do hereby 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.

My invention relates to certain new and useful improvements in clamps for sewing-machines, but more especially is it my intention to provide a clamp for use upon sewing and flossing machines whereby the operator may accurately move the goods relatively to the stitching mechanism, so that any given design may be reproduced from a pattern upon the sewed fabric; and with these ends in view my invention consists in the details of construction hereinafter set forth, and then recited in the claims.

In order that those skilled in the art to which my invention appertains may more fully understand how to make and use the same, I will describe it in detail, referring by letter to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view of my device, and Fig. 2 a perspective showing it secured upon a sewing-machine bed in proper position relative to the stitching devices.

Like parts are denoted by similar letters in both the figures of the drawings.

The clamp proper consists of an open frame A, upon which a clamping-ring B is imposed. Set-screws C serve to bind the parts aforesaid together and so hold the fabric between them, as appears at Fig. 2. Extensions D from either side of the frame A are pivotally secured the one to the end of arm E, the other to the center of arm F, as seen at Fig. 1.

G is a connecting-arm pivoted at its extremities to the ends of arms E F, and a pin or pointer H, with a suitable handle, extends outward from said connecting-arm, as clearly appears at Fig. 2. The extremity of arm F is pivoted to a plate I, which is screwed fast to

the bed of a sewing-machine. The device hereinbefore described is most advantageously employed upon such sewing-machines as are arranged to take a single stitch and then stop—as, for instance, the flossing-machine shown and described in Letters Patent No. 317,362, granted to House and Dimond the 5th day of May, 1885.

In using my improvement the goods are clamped between frame E and ring F, as shown at Fig. 2, and the pattern to be duplicated is placed upon the table or bench in proper position relative to the pin H and the needle-bar of the sewing-machine. Then the pin is placed upon the pattern at the point where it is desired to commence the figure to be made upon the goods held in the clamp and the sewing mechanism is permitted to make a stitch. The pin-point is then moved upon the pattern, and through the pivoted arms the clamp is thereby moved beneath the needle correspondingly, so that each stitch bears the same relation to the previous stitch that each position of the pin upon the pattern does to the preceding position thereof. By successive movements of the pin upon the pattern the whole figure may be faithfully reproduced in stitches upon the fabric within the clamp.

In my invention I do not wish to be confined to the exact construction of clamp which I have herein shown and described, since I do not deem said construction essential.

Having thus described my invention, I claim—

1. The combination, with the open frame and the clamping-ring superimposed thereon, whereby the goods are properly held, of the long arm, whose end is pivotally secured to the table and near the center whereof the clamp is pivoted, the short arm pivoted to the other side of the clamp, and the connecting-arm joining the ends of the long and short arms aforesaid, substantially as set forth.

2. The combination, with the clamp as described, of the pivoted levers E F G, arranged and connected to the clamp and bed, and the pin H, projecting from the extremity of lever G, substantially as set forth.

3. The combination, with the bed-plate and

stitch-forming mechanism of a sewing-machine, of an independent cloth-clamp arranged beneath the needle-bar and movable relatively thereto, a system of pantographic levers pivotally attached to said clamp and also attached to the bed-plate, and an indicator mounted upon one of said levers, whereby the position of the clamp and goods may be

varied relatively to the needle, substantially as set forth. 10

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

JAMES ALFORD HOUSE.

Witnesses:

L. H. HUBBARD,
S. S. WILLIAMSON.