G. W. DARBY.

Hemmer for Sewing-Machines.

No. 132,062. Patented Oct. 8, 1872.

Fig. 1.

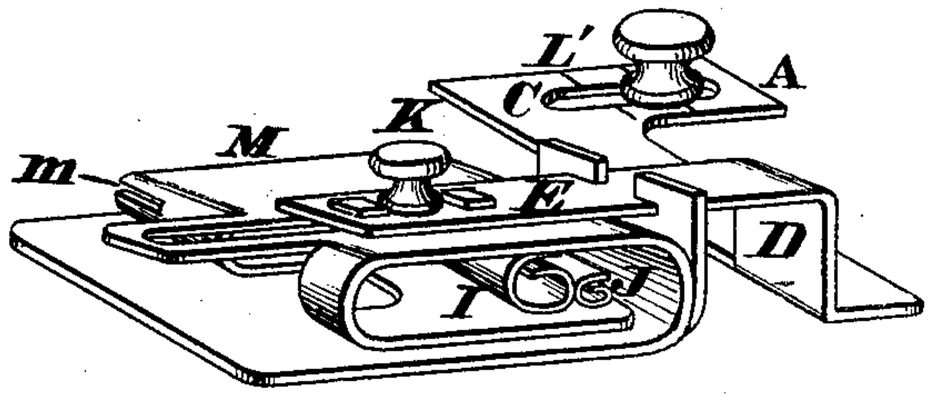


Fig. 2.

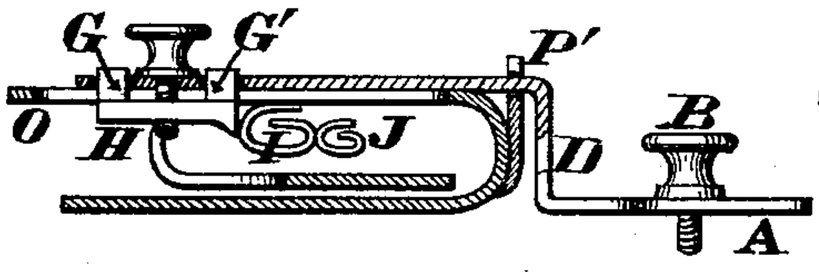


Fig. 3.

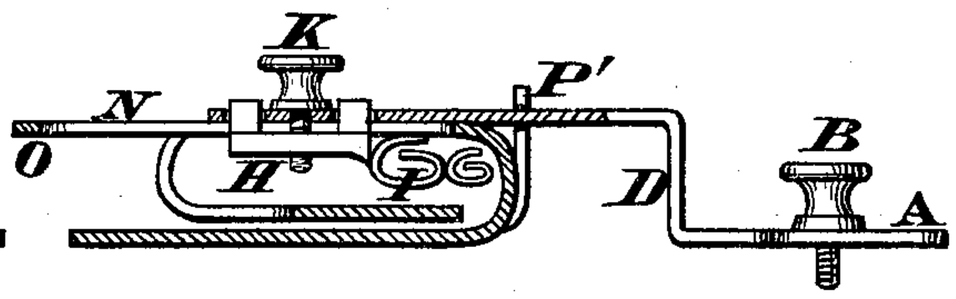


Fig. 5.

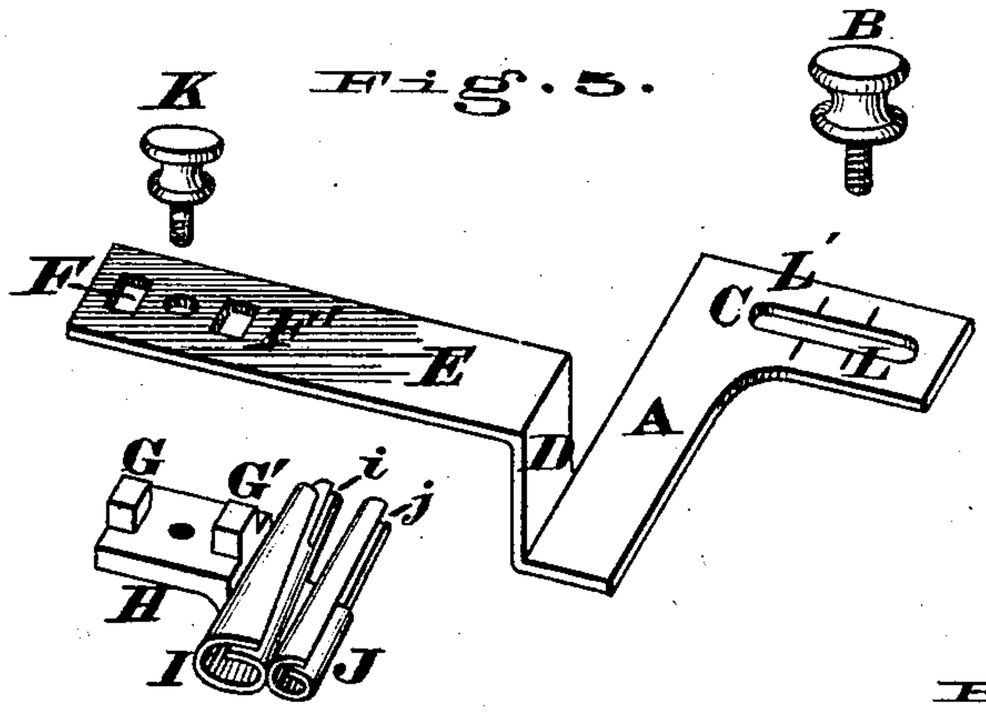


Fig. 4.

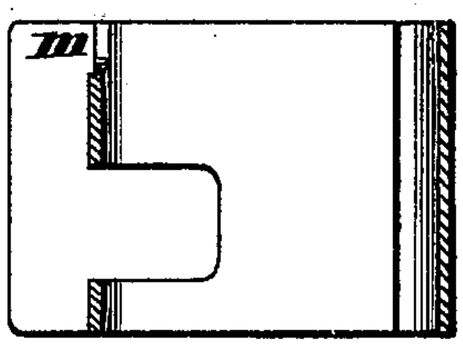
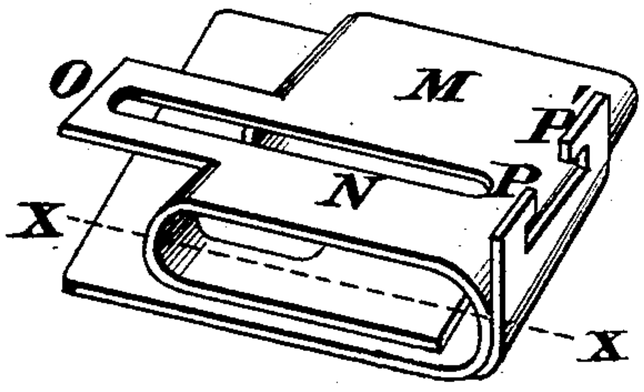
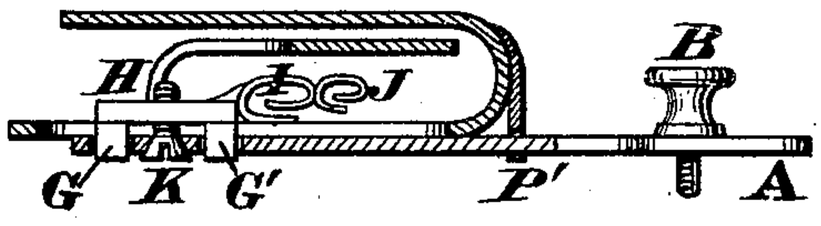


Fig. 6.





Attest.
Jas. H. Layman.
Walter H. Knight

Geo. W. Darby
by Knight Bros.
Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE W. DARBY, OF HAMILTON, OHIO, ASSIGNOR TO HIMSELF, OAKEY V. PARRISH, AND HENRY L. MOREY, OF SAME PLACE.

IMPROVEMENT IN HEMMERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **132,062**, dated October 8, 1872.

To all whom it may concern:

Be it known that I, GEORGE W. DARBY, of Hamilton, Butler county, Ohio, have invented a new and Improved Hemmer Attachment for Sewing-Machines, of which the following is a specification:

This is an improved form of those hemmers which are adjustable for wide or for narrow hems, the parts in my improvement being so arranged as to confine the ordinary adjustment to the portion or member of the scroll which determines the width of the hem, and at the same time to provide an extended adjustment and to insure accuracy and regularity of work, as hereinafter set forth.

Figure 1 is a perspective view of a hemmer embodying my improvement. Figs. 2 and 3 are transverse sections in the plane of the adjusting-screw, in which the outer scroll is set for a wide and for a very narrow hem respectively. Fig. 4 is a horizontal section through the outer scroll, at the line X X. Fig. 5 shows the separable parts detached. Fig. 6 is an end elevation of my device arranged for a down-turned hem.

My bracket A having been once secured to its proper position upon the cloth-plate, by means of the customary screw B, requires no subsequent shifting or adjustment, except to form the narrowest hem, and to provide for this slight occasional adjustment the orifice C in said bracket, for said screw, takes the form of a short slot, as shown. For the narrowest hem a special inner scroll is provided, as hereinafter explained. For an upturned hem my bracket has an upward bend or jog, D, so as to place the entire scroll below its free extremity. The portion E of the bracket has mortises F F′ to receive corresponding tenons G G′, which project from the head H of my duplex inner scroll I J, which, by means of said head and a screw, K, which is tapped into H, is held, after being once adjusted, permanently to its proper position with reference to the needle. This adjustment may be made to the small scroll J for the very finest hems, and to the larger scroll I for hems of all larger widths, and to which my hemmer is adjustable without shifting the said scroll, which, as I said before, remains stationary and undisturbed, thus entirely dispensing with the present necessity of tedious adjustment of that part of the scroll (to wit, the said inner scroll) which determines the position of the stitch-edge or shoulder of the hem. To guide the operator in the above adjustment of the bracket it is marked, as at L, for the narrowest and at L′ for all wider hems. The outer scroll M has, in its upper portion, a slot, N, which is prolonged into a projection, O. This slot, by inclosing the tenons G G′ of the head H, serves to hold the outer scroll to its proper parallelism with the feed in every position of adjustment, and also operates to permit such adjustment whenever the screw K is sufficiently slackened for that purpose, and said slot, being extended beyond the shoulder of the scroll M, permits the inner scroll to be shifted as far as said shoulder for wide adjustments. As an additional means of steadying the outer scroll, there project from it two notched ears, P P′, which embrace the edges of the portion E of the bracket. The outer scroll M is made wide enough to include the widest hem, and is flattened vertically toward its discharging-edge and slotted, *m*, on one side thereof, so as to insure the proper flattening of the folds preparatory to stitching, the slot *m* enabling it to press with an elastic or yielding force upon the goods and permitting the easy passage of cross-seams. The convolution of the larger inner scroll is slotted, as at *i*, to permit the edge of the goods to pass forward without being curled or rolled over so as to make a thick and consequently unsightly hem, and with the same object the delivery end of the smaller inner scroll is entirely omitted, as at *j*, on one side, so as to leave from its mid-length to its delivery only a half convolution.

It will be perceived that the devices F F′ G G′ H K, which serve to hold the inner scroll immovably in place upon the bracket after having been once properly adjusted, also when the screw K is slackened, become effective to guide the outer scroll in its adjustments; and, when said screw is tightened, act as a clamp to effectually hold said scroll to its place of adjustment.

I claim herein as new and of my invention—

The bracket A, and the inner scrolls I J and adjustable outer scroll M attached to said

bracket, the outer scroll being adjustable, relatively, to the inner scrolls by means of slot N and screw K without detaching or moving said bracket, and the inner scrolls constructed as described and separately adjustable, so that wide or very narrow hems may be turned, as set forth.

In testimony of which invention I hereunto set my hand.

GEORGE W. DARBY.

Attest:

GEO. H. KNIGHT,

JAMES H. LAYMAN.