(No Model.)

E. F. ANGELL & A. SPEAR.

CLAMP FOR SEWING MACHINE ATTACHMENTS.

No. 279,516. Patented June 19, 1883.

Fig. 1.

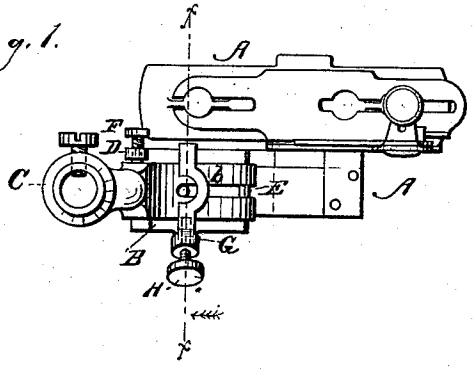


Fig. 2

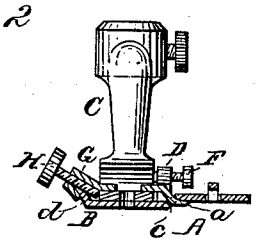


Fig. 3.

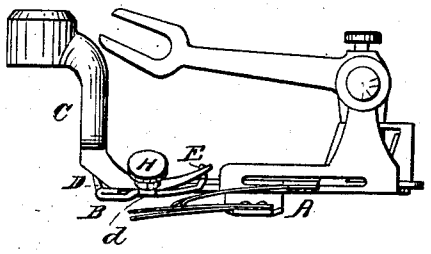


Fig. 4.

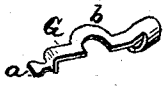
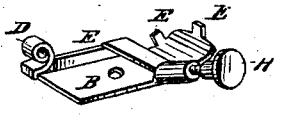


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDWARD F. ANGELL AND ARTHUR SPEAR, OF CHICAGO, ILLINOIS.

CLAMP FOR SEWING-MACHINE ATTACHMENTS.

SPECIFICATION forming part of Letters Patent No. 279,516, dated June 19, 1883.

Application filed October 20, 1882. (No model.)

To all whom it may concern:

Be it known that we, EDWARD F. ANGELL and ARTHUR SPEAR, both of Chicago, in the county of Cook and State of Illinois, have jointly invented certain new and useful Improvements in Clamps for Connecting Sewing-Machine Attachments to the Presser-Foot of Sewing-Machines, of which the following, in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a top view of a sewing-machine attachment provided with our clamping device. Fig. 2 is a cross-section in the plane of the line *x x* of Fig. 1. Fig. 3 is a side view of the attachment and clamp. Fig. 4 is a detail showing the clamp device detached and without its screw, and Fig. 5 is a modification of the same.

Like letters of reference indicate like parts.

A represents a ruffling or gathering attachment for sewing-machines. B is the false presser-foot, with which such attachments are usually provided. C is the presser-foot of the sewing-machine. The foot B, with the following exceptions, is made in the usual or in any well-known or suitable way. The stud D is arranged to stand near the inner edge of the presser-foot C, and also near the heel, as shown. The stud D is also adapted to receive a horizontal thumb-screw, F, the inner end of which is intended to perform the function of a laterally-adjustable rest for the presser-foot C. The tongue E is adapted and arranged to project up against an edge of the presser-foot, which edge lies opposite that from which the clamping-screw enters. This tongue E, however, need not necessarily be located for contact with the inside edge of the presser-foot, (as shown in Fig. 5;) but the same result will follow if it extends up into the needle-hole notch, as shown in Figs. 1 and 3.

G is a small strip or bar of flexible sheet metal, on one end of which is a horizontal tongue or extension, *a*, and the other end of which is winged and bent to receive a screw, H, the said winged or bent portion being internally screw-threaded to engage the said screw. The bar G is arched slightly to overlap the central part of the presser-foot, and it should also be cut or curved, as shown at *b*, so as not to obstruct the needle-hole. To apply the bar G to the attachment we slip the tongue *a* through a small slot, *c*, in the attachment, and the opposite end of the clamp device we solder or otherwise fasten to the attachment, making on the attachment, if necessary, a small lip, *d*, adapted to enter the winged end of the bar G to aid in retaining it in its proper place. We also deem it best to make the bar G such in form that the screw H will be inclined, as shown. The modification of construction shown in Fig. 5 represents all the essential features of our invention made, with the exception of the screws F and H, in one and the same piece.

To apply an attachment provided with this clamp we slide it upon the presser-foot C in such a manner that the horizontal part of the foot will be between the false foot and the bar G. When the attachment is properly set or applied the tongue E will project up against one edge of the presser-foot, as shown. We then tighten the screw H against the outer edge of the foot C firmly, by which means the foot C will also be held firmly against the end of the screw F, which may be adjusted, if need be, to bring the attachment straight with relation to the presser-foot, but need not thereafter be adjusted in applying the attachment either to the same foot or to feet of the same width between the clamping-points. The screw F, therefore, is not absolutely essential, excepting to secure accuracy of position when the attachment is applied to a presser-foot varying in width from others intended to be of the same dimensions.

It will be perceived, from the foregoing description, and from reference to the drawings, that the attachment may be applied and removed with facility, and that it will be very firmly held in place during use.

While we have shown and described our improvements in connection with a ruffling or gathering attachment for sewing-machines, it is obvious that they may be employed for a like purpose in connection with various other sewing-machine attachments.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A clamp for sewing-machine attachments in which are combined a cross-bar adapted and

arranged to overlap the presser-foot of the machine, the clamping-screw H, the stud or shoulder D, arranged to serve as a rest for one of the edges of the said foot, the screw F, and the tongue E, all the said parts being adapted for operation together substantially as and for the purpose specified.

2. The combination of the false foot B, the vertical tongue E, the stud D, the screw F, the bar G, and the screw H, in connection with a sewing-machine attachment, substantially as and for the purposes specified.

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