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HEMMER FOR SEWING MACHINE.

Filed Sept. 23, 1922

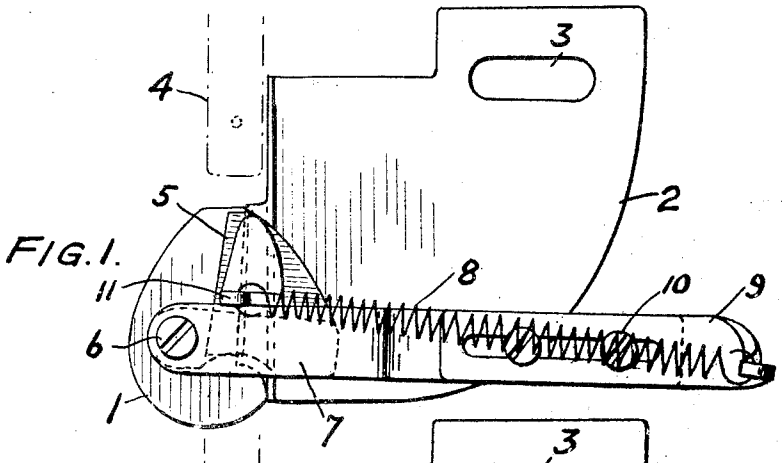


FIG. 1.

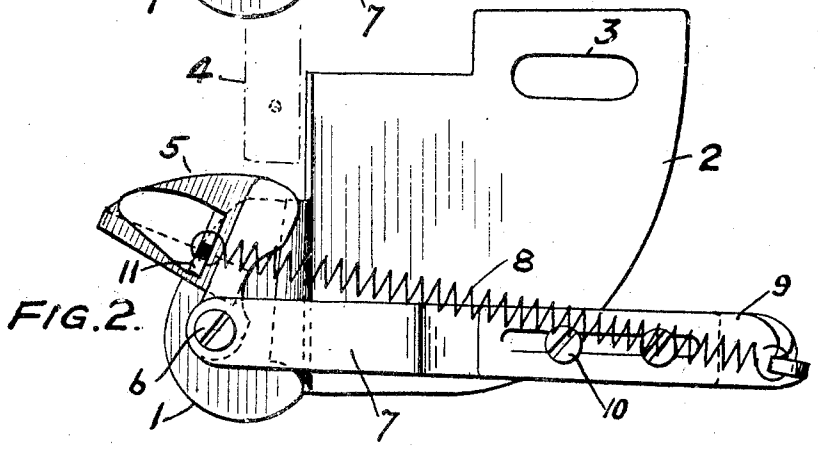


FIG. 2.

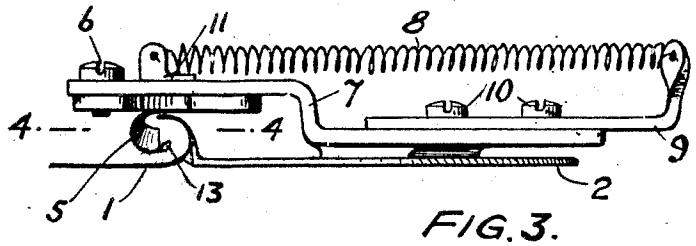


FIG. 3.

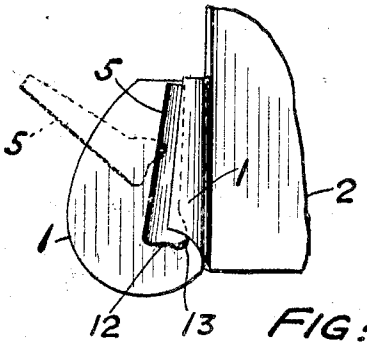


FIG. 4.

WITNESS:

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UNITED STATES PATENT OFFICE.

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HEMMER FOR SEWING MACHINES.

Application filed September 23, 1922. Serial No. 589,963.

The principal object of the present invention is to provide a sewing machine hemmer which in the case of round or tubular work will automatically get out of the way and permit of the completion of the hem and which will automatically return to its original position so that the hemmer will operate automatically to permit of the complete hemming of the edge of a round article of clothing or tubular fabric and of a continuation of the stitching, if desired, and will automatically return to its initial potion upon completion of the hem.

To this and other ends hereinafter set forth the invention, generally stated, comprises a sectional folder arranged in advance of the sewing mechanism and of which one section is fixed and of which the other section is spring pressed and pivotally supported and adapted to be turned about its pivotal support temporarily to one side of the line of feed by the action of the oncoming sewed part of the hem in order to clear the short folded portion of the fabric that precedes the completed hem so that the folded portion may run to and through the sewing mechanism. The invention also comprises the improvements to be presently described and finally claimed.

In the following description reference will be made to the accompanying drawings forming part hereof and in which—

Figure 1 is a top or plan view of mechanism embodying features of the invention showing the folder in normal position.

Fig. 2 is a similar view showing the movable section of the folder turned out of the line of feed.

Fig. 3 is an elevational view showing the inlet end of the folder, and

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3 and showing in full and dotted lines two positions of the movable section of the folder.

In the drawings the section 1 of the folder is fixed, for example, it is attached to or made part of a plate 2 adapted to be attached to the table of a sewing machine, for example, through the intervention of a slot 3, and the position of the sewing mechanism is indicated by the presser foot 4, shown in dotted lines, it being understood that in Figs. 1 and 2 the direction of the feed is from the bottom toward the top of the sheet. The other section 5 of the folder is pivotally supported as at 6. The pivotal support 6 is shown as provided on the end of an arm 7 that extends beyond the line of feed and is secured to the plate 2. 8 is a spring having one of its ends connected with the movable element of the folder and the other of its ends connected with an extension 9 of the arm 7 which is connected by slot and screw adjustment 10, so that the tension of the spring can be adjusted. The spring 8 presses or pulls the pivotal element 5 of the folder into the position shown in Fig. 1 with its stop 11 against the arm 7, and this is the normal position of the section or element 5 so that normally the two elements 1 and 5 of the folder occupy such relative position that the device as a whole may be considered to be an ordinary folder and it operates like an ordinary folder in hemming round work until the beginning of the original stitches approaches the sewing mechanism 4, when the sewed portion of the hem, operating upon the heel 12 and under the influence of the feed, turns the element 5 about the pivot 6 and into the position indicated in Fig. 2 and by dotted lines in Fig. 4. In this position the section or element 5 clears the part of the fabric which it has just folded and gets out of the way of the oncoming sewed portion of the hem so that the folded part of the fabric can reach the stitch forming mechanism 4, thus completing the hem whereupon the spring 8 returns the part or element 5 to its original position. The heel of the element 5 may be somewhat concave as shown in Fig. 4 for engagement with the oncoming sewed portion of the hem, and the element 5 may be provided at its inlet end with an upwardly curved toe 13, Fig. 3, which facilitates the described pivotal motion which is imparted to it in respect to clearing the folded portion of the work. The spring 8 may be omitted and the folder element 5 turned by hand.

It will be obvious to those skilled in the art to which the invention relates that modifications may be made in details of construction and arrangement without departing from the spirit of the invention which is not limited as to those matters or other-

wise than as the prior art and the appended claims may require.

I claim:

1. In a sewing machine hemmer adapted for tubular or round work the combination of a fixed folder section, a pivotally supported spring pressed folder section having a concave heel, and a vertical pivot about which the last named folder section is turnable.

2. In a sewing machine hemmer adapted for tubular or round work the combination of a fixed folder section, a pivotally supported spring pressed folder section having a concave heel and a curved toe, and a vertical pivot about which the last named folder section is turnable.

3. In a sewing machine hemmer adapted for tubular or round work the combination of a fixed folder section, a pivotally supported spring pressed folder section having a curved toe, and a vertical pivot about which the last named folder section is turnable.

4. In a sewing machine hemmer adapted for tubular or round work the combination of a fixed folder section, an arm spaced above the same and extending beyond the line of feed toward the fabric side thereof, a second folder section pivoted to said arm on the fabric side of the line of feed, a vertical pivot fixedly provided on the arm and about which the second folder section is turnable and a spring and stop for normally positioning the last mentioned folder section in the line of feed and for permitting it to turn out of the way of a folded and hemmed portion of the fabric.

5. In a sewing machine hemmer for tubular or round work the combination of a plate provided with a fixed folder section, an arm carried by the plate and extending above and beyond the fixed folder section, a movable folder section pivoted to the arm, a fixed vertical pivot provided on the arm and about which the movable folder is turnable, a spring interposed between the arm and movable folder section, and a stop between the arm and movable folder section, sustantially as described.

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