

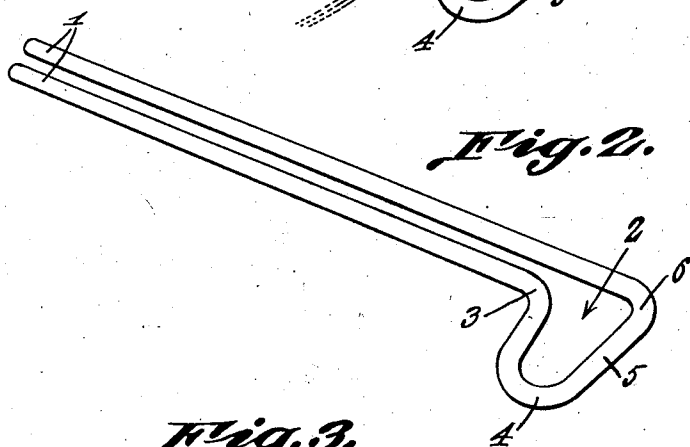
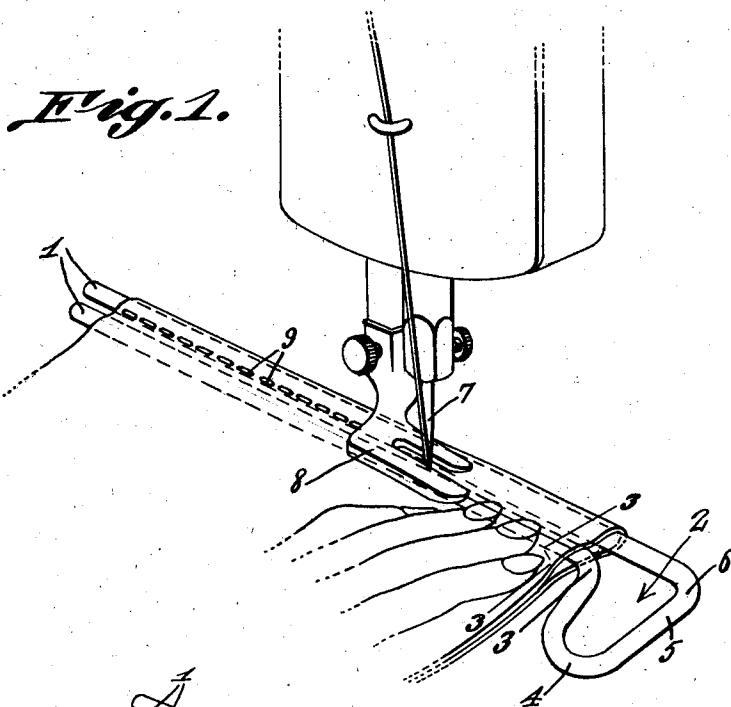
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B. KAHN ET AL

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HEMSTITCHER

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## UNITED STATES PATENT OFFICE

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## HEMSTITCHER

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This invention relates to a device for use in connection with an ordinary household sewing machine to enable the user of the machine to perform types of stitchings which cannot possibly be performed by the use of the ordinary household sewing machine, as constructed and placed upon the market and, while the device of the invention is especially adapted to be employed for hemstitching, it may likewise be employed in other types of stitching such for example as picoting, tucking, pleating, smocking and faggoting, thus enabling the user of the device to perform stitching operations that could not possibly be performed by the use of the ordinary sewing machine or even by the use of hemstitching and similar machines used in factories.

Another object of the invention is to provide a device for the purpose stated which will be so constructed as to render it unnecessary to cut material in two, preparatory to hemstitching.

Another object of the invention is to provide a device for the purpose stated which may be employed in connection with any domestic sewing machine now on the market, which may be used in criss-cross hemstitching and with any desired degree of closeness of the stitches as well as being adapted for use in effecting inlaid hemstitching and likewise be adapted for hemstitching two pieces of cloth without the necessity of basting the pieces to hold the same in properly assembled relation during the stitching operation.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing, and specifically pointed out in the appended claims, it being understood of course that minor changes may be made so long as they fall within the scope of the claims.

In describing our invention in detail, reference will be had to the accompanying drawing, wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a perspective view illustrating the device embodying the invention and the

manner in which it is to be employed in connection with the sewing machine.

Figure 2 is a perspective view of the device as it will be sold.

Figure 3 is a detail transverse sectional view on the line 3—3 of Figure 1, illustrating the manner in which hemstitching may be performed by the use of the device.

The device embodying the invention is preferably formed from a single length of resilient wire and preferably of steel and the wire, of which the device is formed, will preferably be circular in cross-section. The strand of wire from which the device is formed, is so shaped as to provide a pair of spaced, parallel guide stems 1 and, at their free ends, these stems terminate substantially in alignment and, at their opposite ends, the stems are connected by a resilient eye or open head indicated in general by the numeral 2. The eye-shaped head, as shown, is formed by an outward bend 3 at the inner end of one of the stems 1 and a reversed bend 4 formed with a straight portion 5 and a right angled bend 6 which connects the head with the other stem 1. It will be observed by reference to the drawing and particularly Figures 1 and 2, that the bends 3 and 6 are offset with respect to each other in the lengthwise dimension of the device so that the head 2, is, in effect, laterally disposed with respect to the stems 1.

In the use of the device, it is only necessary to rotate the wheel of the sewing machine to elevate the needle 7 and to actuate the lever usually provided upon sewing machines, for elevating the pressure foot which is indicated by the numeral 8. A fold as shown is formed in the piece of cloth material to be hemstitched or otherwise stitched and the stems 1 of the device of the invention are inserted into this fold.

The handle bar is then lowered to lower the presser foot 8 upon the fold of cloth as shown, and the machine is started. It will be evident, by reference to Figure 1, that a line of stitching 9 will be provided between the stems 1 of the device, and inasmuch as the resilient stems are substantially circular in cross-section and extend in slightly spaced and parallel relation with respect to each other the

needle will be automatically guided into the space between the stems. The line of stitching thus produced will be automatically run precisely straight without fear of breaking or bending the needle as the machine is being  
5 operated, the material being held upon the feeder of the machine by the presser foot whereby it will be moved in the usual manner, and will be carried without assistance.

10 The bend 3 of the head 2 serves as a tension means for the stems 1 and in use one or more fingers of the operator's right hand may be inserted into the eye or open head 2 to hold the device in proper alignment while the ma-  
15 terial, looped about the stems 1, is held taut with the left hand. If it is desired to run a line of hemstitching longer than the length of the stems 1, it will be obvious that by leaving the needle down in between the stems 1,  
20 adjacent the bend 3 and raising the presser foot, the device may be slid down by the head 2 and the operation repeated.

What we claim is:

25 1. A hemstitching device for sewing machines, comprising a pair of slightly spaced parallel guide stems, said guide stems being circular in cross-section and resiliently connected at one end thereof by a finger-holding head.

30 2. A hemstitching device for sewing machines, comprising parallel guide stems resiliently connected at one end by an eye forming finger receiving head, said head being laterally offset with respect to said stems.

35 3. A device for producing hemstitching on sewing machines, comprising a single length of resilient wire bent intermediate its ends to provide slightly spaced parallel needle-guiding and stitch-forming stems, the portion  
40 of said wire adjacent the bend being formed into an eye to provide a finger-holding and guiding head for said stems.

4. A device for producing hemstitching on sewing machines, comprising a single length  
45 of resilient wire bent intermediate its ends to provide slightly spaced parallel needle-guiding and stitch-forming stems, the portion of said wire adjacent said bend being formed into an elongated eye laterally offset from  
50 said stems.

5. A hemstitching guide device for sewing machines, comprising a single length of wire bent to provide a pair of guide members and a connecting loop at one end thereof, said  
55 guide members extending from said loop in substantially parallel relation and being slightly spaced to form a needle receiving and guiding slot therebetween, said guiding members being resilient in character and  
60 substantially circular in cross-section, and a portion of said connecting loop being elongated and laterally offset with respect to said guide members to form a finger holding head.

65 6. A device for the purpose stated comprising a pair of slightly spaced, parallel guide

stems, the adjacent faces of which are transversely rounded, and an eye forming head connecting the said stems at one end thereof.

In testimony whereof we affix our signatures.

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