W. A. FOX.

GUIDING DEVICE FOR SEWING MACHINES.

APPLICATION FILED JULY 6, 1908.

925,472. Patented June 22, 1909.

2 SHEETS—SHEET 1.

Fig. 1

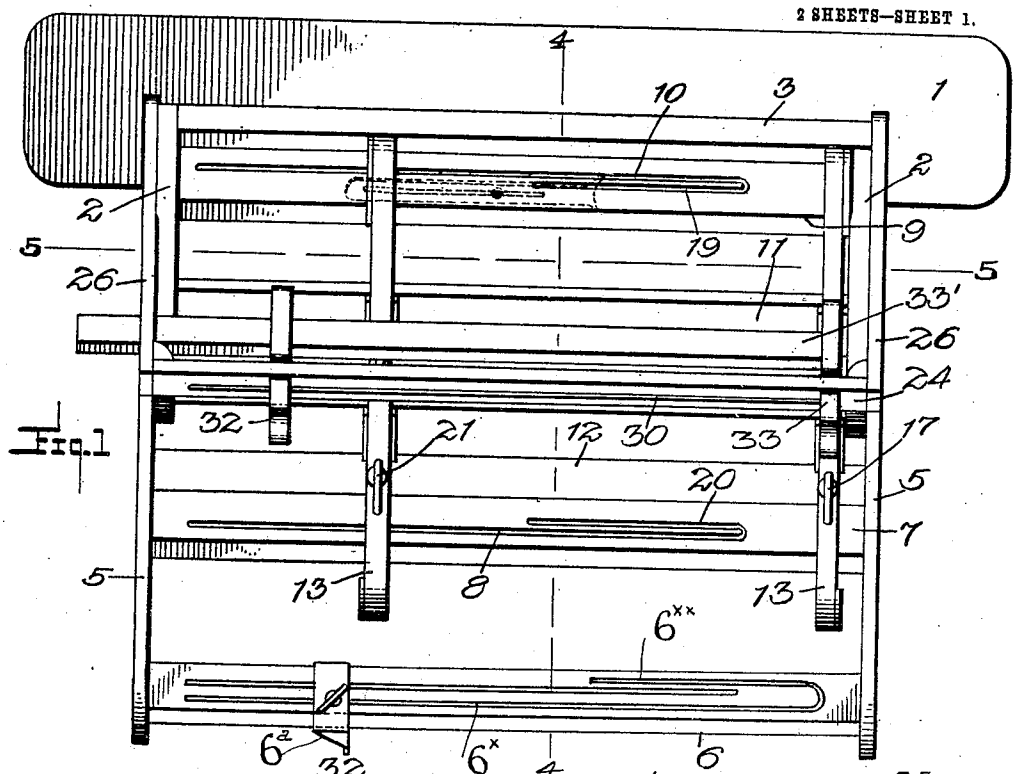
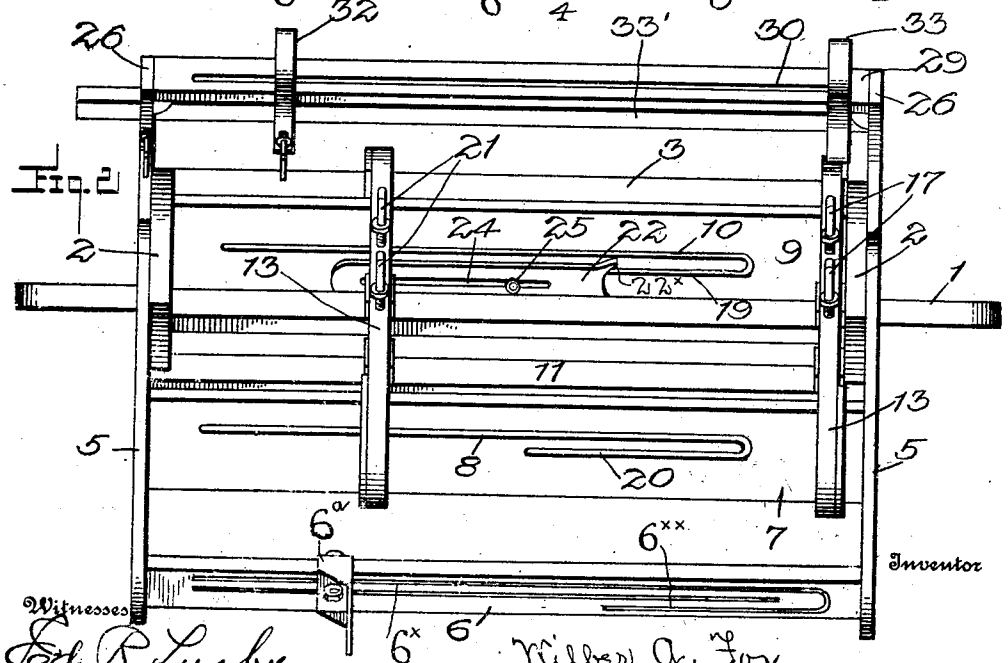


Fig. 2



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3

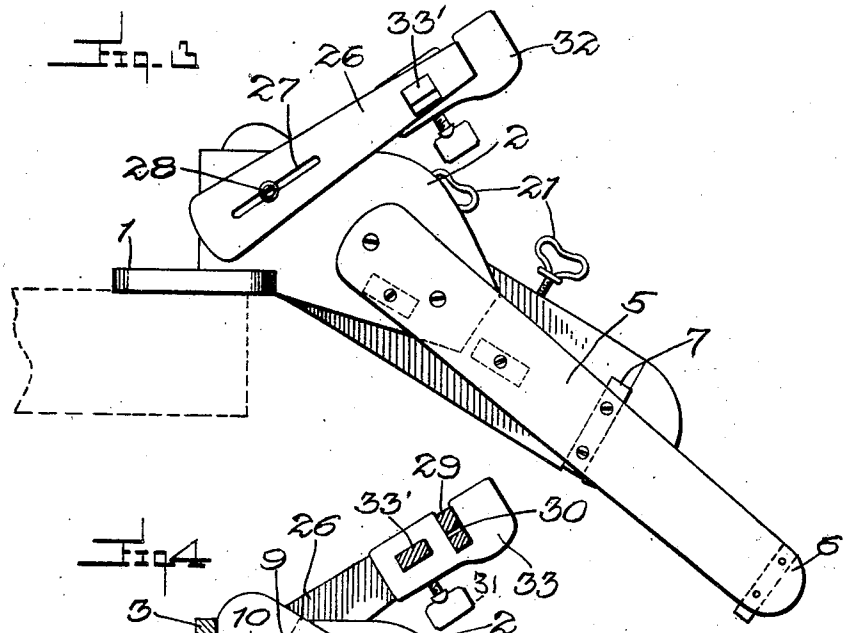


Fig. 4

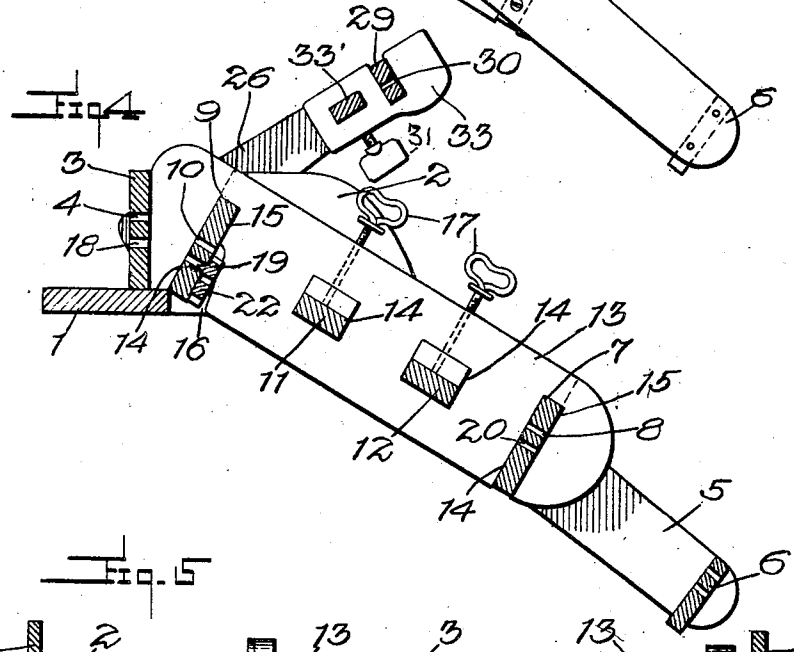
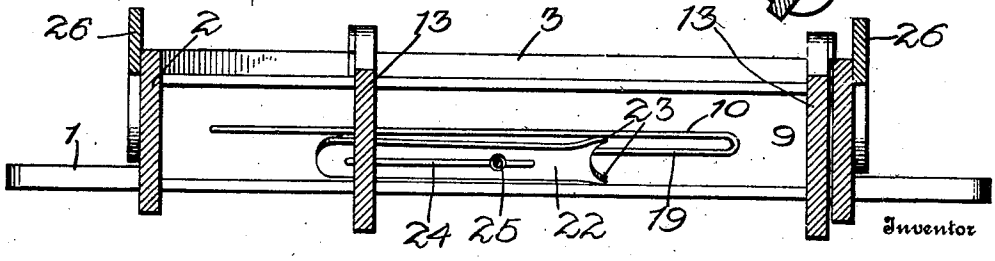


Fig. 5



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UNITED STATES PATENT OFFICE.

WILBER A. FOX, OF POTSDAM, NEW YORK, ASSIGNOR TO GREIG MUSLIN UNDERWEAR COMPANY, OF POTSDAM, NEW YORK, A CORPORATION OF NEW YORK.

GUIDING DEVICE FOR SEWING-MACHINES.

No. 925,472. Specification of Letters Patent. Patented June 22, 1909.

Application filed July 6, 1908. Serial No. 442,088.

To all whom it may concern:

Be it known that I, WILBER A. FOX, a citizen of the United States, residing at Potsdam, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Guiding Devices for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in guiding devices for stitching machines; and it is an object of the invention to provide a novel device of this character adapted to be employed in conjunction with attachments for such machines, as a hemmer attachment, for example.

It is also an object of the invention to provide a novel device of this character which can be adjusted to goods of different widths and which will insure that the goods will be given the proper fold before being fed to the hemmer attachment.

Another object of the invention is to provide a novel device of this character which will be simple in construction, efficient in practice and comparatively inexpensive to manufacture.

In describing the invention in detail reference will be had to the accompanying drawings forming part of this specification wherein like characters of reference denote corresponding parts in the several views and in which—

Figure 1 is a plan; Fig. 2 is a front elevation, Fig. 3 is an end elevation; Fig. 4 is a section on the line 4—4 of the Fig. 1; and Fig. 5 is a section on line 5—5 of the Fig. 1.

In the drawings 1 denotes a base-plate adapted to be suitably clamped to the table of a sewing machine, preferably against the top thereof. Suitably fastened to the top of the base-plate 1 near its ends and extending part way across it are the side-boards 2. These side-boards 2 project downwardly beyond the forward edge of the base-plate 1. Interposed between the side-boards 2 adjacent the rear ends thereof is the transverse board or back-plate 3 arranged at right angles to the base-plate 1. This back-plate 3 is formed with a longitudinal slot 4 through which the work passes.

Fastened to the outer faces of the side-boards 2 are the inclined arms 5 parallel to each other and connected at their lower ends by the transverse guide board 6 formed with a slot $6^{\times}$ to permit of the free passage of the work. The arms 5 are also connected by a second guide-board 7 having a slot 8 through which it is designed that the goods shall pass. Another guide-board 9 having a slot 10 for the passage of the goods is fastened to the side-boards 2 and is so positioned as to have its lower edge in contact with the forward edge of the plate 1. The guide-boards 7, 9 are parallel to each other, while the boards 9, 3 are arranged at an acute angle each to the other. The side-boards 2 and arms 5 may be said to constitute lateral supporting frame members for the slotted guide-boards mounted between them, respectively. The side-boards 2 are further connected by the cross-bar 11, while the arms 5 are united by a similar bar 12. Slidably mounted on the cross-bars 11, 12 are the gages 13 formed with the openings 14 through which the bars 11, 12 pass. The gages 13 are further formed with the recesses 15 to permit said gages to straddle the guide-boards 7, 9, the recesses adjacent the strip 9 being enlarged, as shown at 16, to permit free movement of the gages 13. The rear faces of the latter are so formed as to abut against the back-plate 3. Only one of the gages 13 is employed; namely, the gage on the left of Fig. 1. The remaining gage is set when the device is used to guide fabric to a tucker as described in a companion application. When the present device is employed, the gage on the right of Fig. 1 is held by its binding pin 17 in close proximity to the adjacent arm 5 so that it will not obstruct the slots of the guide-boards, 3, 7, 9, 6.

As hereinbefore set forth the goods pass through the slots $6^{\times}$, 8, 10, 4 and these slots are provided with the return portions $6^{\times\times}$, 20, 19, 18, respectively, to give the goods the proper fold, when delivered to the hemmer attachment. The walls of the portions which connect the return portions with the main portions of the slots are curved. Furthermore, these curved parts of the slots are located out of line with each other, being set more and more to the left beginning with the guide-board 6 and proceeding toward the rear. The gage 13 on the left of Fig. 1 is adjustable to accommodate goods of different widths and acts as a guide for the goods

passing through the slots 6×, 8, 10, 4. This gage is held in its adjusted position by the binding screw 21.

To regulate the turn-under of the hem there is mounted on the front face of the guide-board 9 an adjustable guide-plate 22 provided at one end with the fork 23, which extends across the return or lower portion 19 of the slot 10. It is this fork 23 that limits the turn-under. While this finger 22 may be secured to the plate 9 in any suitable manner, it has been found best to provide it with the longitudinal slot 24 through which passes the clamping bolt 25 carried by the plate 9. The finger 22× is inclined with respect to the slot 19 and the guide-plate 22 serves to maintain the width of the hem uniform however irregular may be the edges of the fabric.

A tucker guide is herein shown comprising arms 26 secured to the outer faces of the side-boards 2 and projecting therefrom. While the connection of the arms 26 may be as desired, it is preferred that they be provided each with a slot 27 adapted to receive a clamp-screw 28 which forms a pivotal connection about which the arms 26 may be swung. The outer ends of the arms 26 are connected by the guide-bar 29 provided with a slot 30 for the passage of goods to a tucker attachment. Acting in conjunction with this guide-bar 29 are the gages 32, 33, carried by the rod 33′, said gages 32 and 33 being adjustable with relation to each other. The rod 33′ is held in adjusted position by the clamp-screw 31. By swinging the arms 26 to a horizontal position, this part of the apparatus may be used as a guide for the fabrics in passing to a tucker attachment of a sewing machine, as is fully described in a companion application Serial No. 442,087 filed July 6th 1908. Thus, the structure hereinbefore described may be used either for a guiding device to be used in connection with a hemmer attachment of a sewing machine or as a guiding device to be used in connection with a tucker or plaiter attachment of such a machine. In the latter case the return portions of the slots in the guide-boards are not used and the arms 26 are thrown to a horizontal position and both gages 13 are set to guide the edges of the fabric. The guide-board 6 is provided with a gage 6ª to guide the left-hand edge of the fabric.

I claim:

1. In a guiding device for sewing machines, the combination with lateral supporting frame-members, of a guide-board mounted therebetween and formed with a two-part slot; the latter having a return portion which extends parallel with the main part of the slot and is connected therewith to fold the edge of the work said main part of said slot extending throughout substantially the length of the working part of said guide-board, and being adapted and designed to receive and guide the whole web of the work.

2. In a guiding device for sewing machines, the combination with lateral supporting frame-members, of a guide-board mounted therebetween and formed with a two-part slot; the latter having a return portion which extends parallel with the main part and is connected therewith, the connecting portion of said slot having curved walls said main part of said slot extending throughout substantially the length of the working part of said guide-board, and being adapted and designed to receive and guide the whole web of the work.

3. In a guiding device for sewing machines, the combination with supporting frame-members, of a series of guide-boards which are mounted therebetween and each of which is formed with a two-part slot; the latter being formed with a return portion extending substantially parallel with the main part of the slot.

4. In a guiding device for sewing machines, the combination with supporting frame-members, of a plurality of guide-boards mounted therebetween and formed each with a two-part slot; the latter being formed with a return portion connected with the main part of the slot, the connecting parts between the main part and return portion of the several slots being out of line with each other.

5. In a guiding device for sewing machines, the combination with supporting frame members, of a series of guide-boards which are mounted therebetween and each of which is formed with a two-part slot having a return portion which extends substantially parallel with the main part of the slot; and a gage which guides an edge of the fabric in the passage of the latter through the slots in said guide-boards.

6. In a guiding device for sewing machines, the combination with supporting frame members, of a series of guide-boards which are mounted therebetween and each of which is formed with a two-part slot having a return portion which extends substantially parallel with the main part of the slot; a gage which guides one edge of the fabric in the passage of the latter through the slots in said guide-boards; and a guide-plate which guides the other edge of the fabric during its said passage.

In testimony whereof I have hereunto set my hand at said Potsdam this 1st day of July, A. D., 1908, in the presence of the two undersigned witnesses.

WILBER A. FOX.

Witnesses:
FRANK L. CUBLEY,
M. H. BROWN.