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APPARATUS FOR USE WITH HEMMING ATTACHMENTS FOR SEWING MACHINES.

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1,249,508. Patented Dec. 11, 1917.

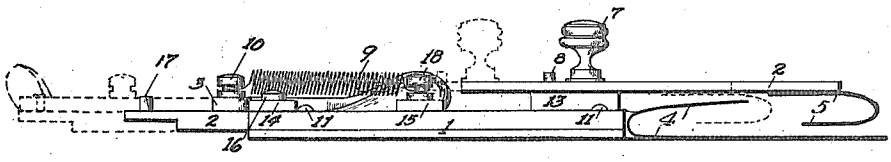


FIGURE 1

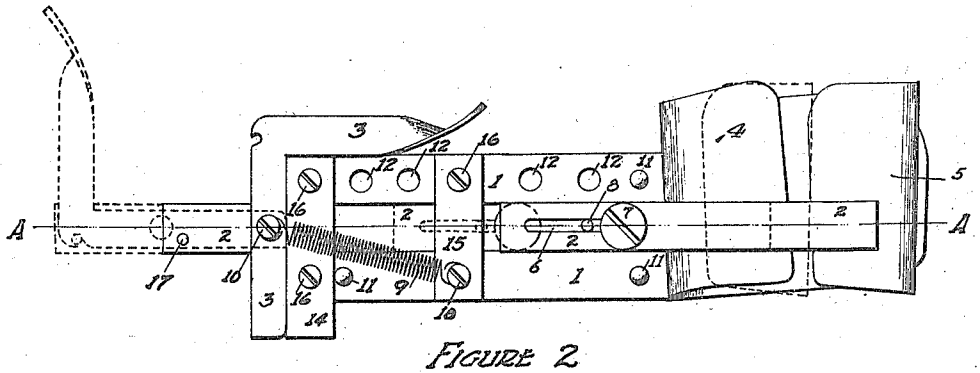


FIGURE 2

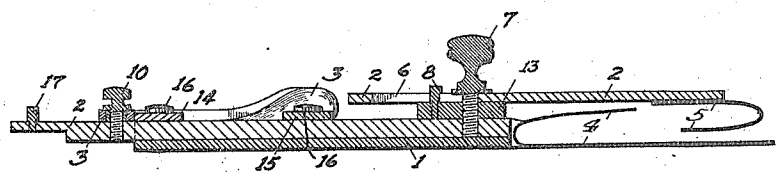


FIGURE 3

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APPARATUS FOR USE WITH HEMMING ATTACHMENTS FOR SEWING-MACHINES.

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To all whom it may concern:

Be it known that I, FREDRICK J. ROSENAU, a citizen of the United States of America, residing at Philadelphia, in Philadelphia county, in the State of Pennsylvania, have invented a new and useful Apparatus for Use with Hemming Attachments for Sewing-Machines.

My invention relates to an apparatus for use with hemming attachments for sewing machines, such attachments, now in common use, being for the purpose of holding the fabric, which it is intended to hem, in place, folding the said fabric, and regulating the width of the hem. In my invention a slide controlled and operated by a lever, is connected to one part of the hemming attachment and operates to spread or open the apparatus and to close it, at the will of the operator, through the operation of the lever. It further includes, as an integral part of the slide, a slotted bar or slide, for regulating and adjusting the width of the hem to be made.

The objects of my improvement are:

1. To provide a hemming attachment which opens and closes.

2. To provide facilities whereby, in a hemming attachment for sewing machines, the apparatus for hemming, now in common use, may be spread or opened, to admit of the insertion or removal of fabrics.

3. To provide facilities whereby fabrics partly manufactured into their intended form may be inserted in, hemmed by the aid of the hemming apparatus and removed, after being hemmed.

4. To provide an apparatus whereby fabrics may be inserted in, hemmed and removed from the hemming apparatus, now in common use, with greater speed and facility than is now possible.

The objects of the invention are attained by the mechanism illustrated in the accompanying drawing, in which:

Figure 1 is a side view of the apparatus;

Fig. 2 is a top view of the apparatus, in detail;

Fig. 3 is a longitudinal cross section of the apparatus.

The members 4 and 5, shown in the drawing, do not constitute a part of the invention as claimed. They serve to fold the fabric to be hemmed, and to regulate and keep uniform the width of the hem, to be made. They are now in common use, but without the apparatus hereinafter described. These members are hereinafter referred to as the hemming attachment.

The framework of the apparatus 1, 1 consists of three pieces of metal, one forming a bed or rest, and the other two placed upon the lower piece, parallel to each other, the space between them forming a groove. The frame so formed is held together by the rivets 11, 11 which join the upper pieces to the lower piece. It is further supported by the braces 14 and 15, which extend across from one of the upper pieces of the frame to the other. These braces rest upon the upper pieces of metal, and are connected to them by the bolts 16, 16 which pass through the braces and the two thicknesses of metal.

In the groove of the frame, as above described, the slide 2, 2, rests. This slide is made up of two parts or sections. One of these sections, hereinafter called the upper, rests upon the cushion 13, (Fig. 3) which is attached to the other section of the slide, hereinafter called the lower. In the upper section of the slide, in that part of it which is adjacent to the cushion, is a slot, 6. Passing through this slot, into the cushion 13, are the pin, 8, and the thumb screw, 7. The slot is longer than the distance between the pin and the thumb screw, so that the upper section of the slide may be moved back and forth, upon the cushion. The upper section of the slide is attached, at the end opposite the slot, to the movable member of the hemming attachment, 5. The cushion 13, further serves to bring the upper section of the slide out of the groove, to a level above the sides formed by the two upper pieces of the frame, as hereinbefore described.

The lower section of the slide is attached, at the end opposite the cushion, to the pivoted lever 3, 3 by the bolt 10. A tension spring 9, is attached to the lever 3, by the same bolt, 10. The other end of the spring is fixed to the frame by the bolt 18. The brace 14, attached to the frame by bolts 16, 16 acts as a stop for the lever 3, in addition to its function as a brace for the frame. A pin 17, serves as a stop for the lever when it is moved into the position indicated by the dotted lines.

To the frame, at the end opposite to that at which the lever 3 is attached, the fixed section of the hemming attachment, 4, is attached. To insure rigidity of this section it is attached to both the bed and to the up-

per parts of the frame, as shown in Figs. 1 and 3.

The frame of the apparatus 1, 1 is attached to the sewing machine, in proper position, by bolts secured in the sewing machine, through the holes 12, 12.

By moving the upper section of the slide 2, through the range permitted by the length of the slot, 6, the width of the hem, desired, is attained. The desired point having been reached, the slide is held rigid by tightening the set screw, 7. Sidewise motion is eliminated by the pin, 8.

The width of the hem to be made, having been regulated, the lever 3 is moved into the position in which it is shown in Fig. 2, after which the material to be hemmed is inserted into the hemming apparatus, in the space between members 4 and 5. The lever, 3, is then moved into the position indicated by the dotted lines. The effect of this is to draw the slide 2, 2 forward, and hence with it, the member 5. This member, 5, is so brought into juxtaposition with member 4, the fabric to be hemmed being carried with it, and into the proper position for hemming. The lever is held in the position into which it has been moved by the tension of the spring, and the exact position is determined by the pin, 17. The operation of hemming can now be carried on, the fabric being moved forward, by the operator, as it is sewn. It cannot be pulled out from the side. When the hemming operation has been completed the apparatus is opened, by bringing the lever into the original position, and the material can then be easily removed.

I claim:

1. In an apparatus for use with hemming attachments for sewing machines, a pivoted lever and a slide or bar divided into two parts or sections, held together by a thumb screw, inserted through a slot in the upper section of the slide, into a cushion attached to the lower section of the slide, the lever attached to the end of the lower section of the slide farthest from the cushion, and the upper section of the slide, attached to the folding or guiding apparatus.

2. In a hemming attachment for sewing machines a slide or bar, divided into two parts or sections, the upper part of the slide or bar, in which is cut a slot, resting upon a cushion, attached to the lower section of the slide or bar, and a thumb screw, within the slot, and inserted into the cushion; the lower section of the slide or bar attached to a pivoted lever, and a tension spring attached to the pivoted lever.

3. In a hemming attachment for sewing machines the combination of a slide or bar, in two sections, held together by a thumb screw inserted through a slot in one section of the slide or bar into a cushion attached to the other section of the slide or bar, a pivoted lever and a tension spring, to hold the lever in position, said slide attached at one end to one blade or part of the apparatus which folds the fabric to be hemmed, and regulates the width of the hem, in such position that when this blade is drawn into position for operation, said blade is located in correct apposition to the other blade or part of the apparatus for folding and regulating the width of the hem, for accomplishing the purposes of this part of the apparatus.

4. In an apparatus for use with hemming attachments for sewing machines, the combination of a slide or bar, consisting of two parts or sections, held together by a thumb screw inserted through a slot in one section of the slide or bar, into a cushion attached to the other section of the slide or bar, and a pin inserted through the slot into the cushion, to eliminate sidewise motion in the upper section, a pivoted lever with a tension spring to hold it in position, and a pin to determine the exact position in which the lever is to be held by the spring.

FREDRICK J. ROSENAU.

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