Dec. 12, 1939. J. CAUDLE 2,183,185

ATTACHMENT FOR SEWING MACHINES

Filed May 17, 1938

FIG. 1.

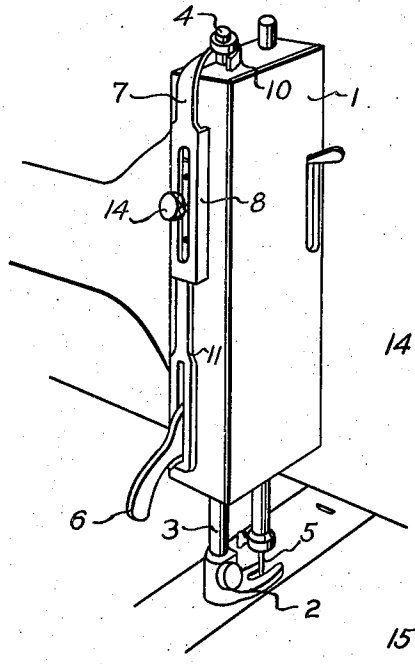


FIG. 2.

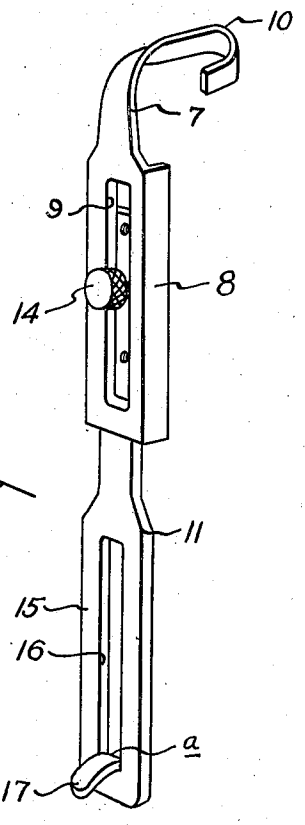


FIG. 3.

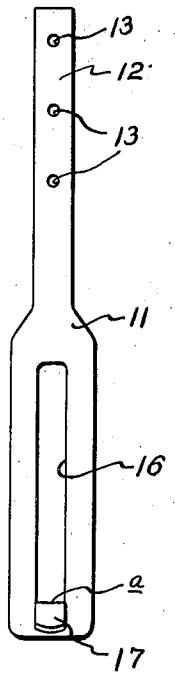


FIG. 4.

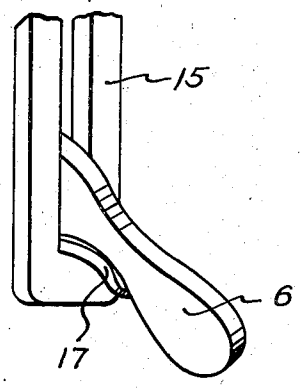
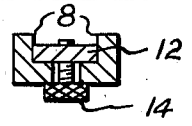


FIG. 5.



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ATTACHMENT FOR SEWING MACHINES

Jessie Caudle, Fort Worth, Tex.

Application May 17, 1938, Serial No. 208,409

1 Claim. (Cl. 112—237)

This invention relates to sewing machines and has particular reference to apparatus and design for an attachment whereby the presser foot of the machine may be suspended at various heights above the feed dogs for performing such operations as embroidering, darning, or other work in which it is desirable to shift the material laterally during the stitching operation. The primary object of the invention resides in the provision of an attachment of this character which is flexible in use yet well secured to the sewing machine without interfering with the normal operation of the machine.

Another object of the invention resides in the provision of a device of this character in which the adjustment of the height of the presser foot is more easily made.

Still another object of the invention is in the provision of a device of this character which is simple and economical in its construction.

In attachments for adjusting the height of presser feet heretofore made the constructions have been pendulum devices which swing from the upper portion of the sewing machine head and have slots at their lower ends for engaging the presser foot lever or have been rigidly secured attachments having hooks at their lower ends for suspending the presser foot levers, both of which interfere to some extent with the normal manual operation of the presser foot lever. In the present invention the provision of a slot which slidably engages the presser foot lever in the lower portion of the attachment makes possible the desired non-rigid suspension and at the same time limits the pendulum movement of the attachment.

While the foregoing objects are paramount, other and lesser objects will become manifest as the description proceeds taken in connection with the accompanying drawing wherein:

Figure 1 is a fragmentary perspective view of a machine head illustrating the invention attached thereto.

Figure 2 is an enlarged perspective view of the device detached from the sewing machine.

Figure 3 is an elevational view of the lower member.

Figure 4 is a fragmentary perspective view of the lower portion of the attachment illustrating a presser foot lever engaged within the lower portion of the slot as well as the relative position of the projecting handle, and

Figure 5 is a lateral sectional view illustrating the engagement between the upper and lower members.

Continuing with a more detailed description of the drawing, the numeral 1 generally designates a sewing machine head having a presser foot 2 attached to a vertical presser foot bar 3, the upper end 4 of which extends through the head 1.

In the normal operation of a sewing machine, the presser foot 2 engages the material at its underside in order that the feed dogs positioned thereunder may uniformly space the stitching and direct the same in a straight line.

However, in certain types of sewing it is desirable to stitch in various directions, such as required in embroidering, patching, darning, quilting, and the like, and, in order to accomplish such work, the presser foot 2 is partially raised to prevent pressure against the feed dogs, but is retained low enough that the presser foot 2 will disengage the material from the machine needle 5 between each stitch.

The attachment is comprised of an upper member 7 having a channel 8 formed in its lower portion and a vertically arranged slot 9 in the face of the member, the same being approximately the same length as the said channel. At the upper end of the member 7 there is a laterally projecting hook 10 which is designed to engage the upper end 4 of the presser foot bar 3 for suspending the device on the machine head 1.

A lower member 11 of the attachment has a relatively narrow upper portion 12, as particularly illustrated in Figure 3, which is designed for slidable engagement within the channel 8. A series of internally threaded apertures 13 in the upper portion 12 are provided for retaining a set screw 14 which passes through the slot 9 of the upper member 7 for telescopically adjusting the height of the lower member 11. The selective use of the apertures makes possible a greater or lesser extension of the device.

Within the lower portion 15 of the lower member 11 there is arranged a vertical and longitudinal slot 16 which is designed to slidably engage the presser foot lever 6 and suspend the latter at various heights by reason of the adjustment previously described and yet allowing free manual manipulation of the lever 6.

The lower end *a* of the slot 16, the point which suspends the lever 6, terminates in a laterally projecting handle 17, which may be formed integral with the lower member 11, the purpose of which is to expedite the adjustment between the upper and lower members 7 and 11.

Manifestly, the structure herein shown and described is capable of considerable changes and

modifications from time to time by those skilled in the art and such changes and modifications as may be resorted to falling within the spirit and intent of the invention may also be considered as falling within the scope of the appended claim.

What is claimed is:

A presser foot support for a sewing machine having a pair of longitudinally and slidably adjustable upper and lower members and means integral with the upper member for engaging the upper end of the presser foot bar of the said machine, said lower member having a vertical slot of greater length than the normal range of movement of the presser foot lever for receiving the presser foot lever of the said machine and for supporting the said presser foot bar in suspension and allowing free upward movement of the said lever.

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