Aug. 19, 1952 L. SOLDO 2,607,309

SEWING-MACHINE PRESSER FOOT

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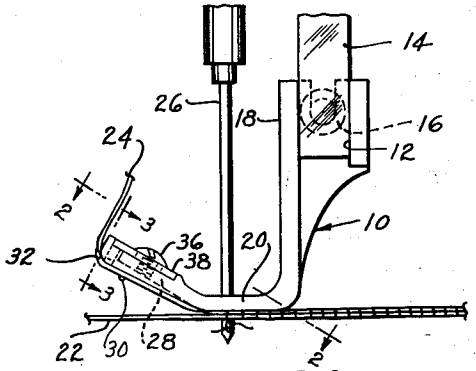


FIG. 1

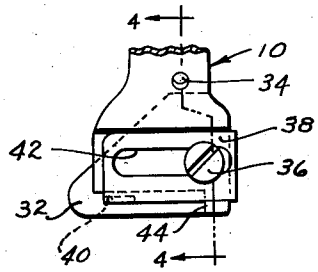


FIG. 2

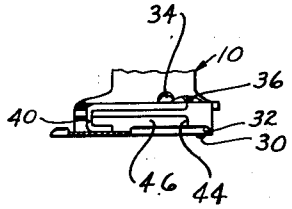


FIG. 3

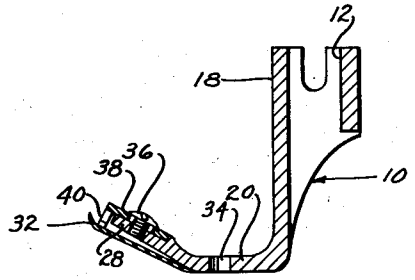


FIG. 4

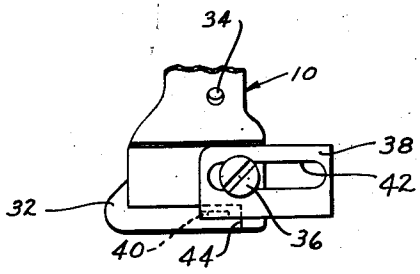


FIG. 5

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SEWING-MACHINE PRESSER FOOT

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5 Claims. (Cl. 112—152)

1

The present invention relates to a sewing machine presser foot for guiding a tape or ribbon fed to the sewing machine and sewed thereby as a binding or decoration on a garment.

I have disclosed a tape and ribbon tension guide attachment for a sewing machine for which I have filed application for a patent, Ser. No. 159,475, on May 2, 1950, and in which application I have described a presser foot constructed and arranged to guide the tape or ribbon to the needle.

The present invention contemplates an improvement to the presser foot disclosed in that application and which present presser foot has particular use with the attachment therein disclosed.

The present invention contemplates the provision of a presser foot constructed and arranged so that the tape or ribbon fed from the spool is guided in a positive manner to the needle so that it may not be inadvertently moved from side to side under the presser foot but will be held so that it may not be misaligned with the garment to which it is sewn.

The present invention contemplates the provision of such a presser foot that is arranged and constructed so that the guiding means forming a part of the presser foot may be selectively adjusted to differing widths of the tape or ribbon which is to be sewed to the garment.

The presser foot of the present invention is such that the tape or ribbon is guided to the sewing machine needle and the garment without requiring attention to the position of feeding thereof that is necessary with prior devices.

Thus, a sewing machine using the presser foot of the present invention is relatively faster in operation and more easily operated than sewing machines using presser foots of the prior art.

The presser foot of the present invention further permits ready cutting of the tape or ribbon at the garment so that a uniform binding or decoration may easily be obtained, an operation which was not possible with the tape or ribbon guiding devices heretofore used and which were referred to as "tube" guides.

These, other and further objects, uses and advantages of the present invention will be clear from the description which follows and the drawing appended thereto in which:

Fig. 1 is a side elevation of a presser foot according to my invention mounted on the bar of a sewing machine and showing a needle, tape or ribbon and garment.

Fig. 2 is a view on the line 2—2 of Fig. 1.

2

Fig. 3 is a view on the line 3—3 of Fig. 1.

Fig. 4 is a cross section on the line 4—4 of Fig. 2.

Fig. 5 is a plan view similar to Fig. 2 with the tape or ribbon guide moved to smallest tape limit.

Referring now to the drawing, the presser foot 10 is provided with the open groove or slot 12 in which is received the presser bar 14, of the type usually found in a sewing machine, and which presser foot is secured to the bar in a conventional manner, as by the set screw 16.

The vertical front wall 18, on the left of Figs. 1 and 4, continues into the horizontal presser foot plate 20, between which and the conventional sewing machine feed plate (not disclosed) the garment 22 and the tape or ribbon 24 are located to be sewn together by the needle 26.

The horizontal presser foot plate 20 continues into the upwardly inclined, as viewed in Figs. 1 and 4, guide support 28 provided with a forward and downward side extension 44.

Secured to the underside of side extension 44 of support 28 and underlying the underside thereof, in any suitable manner, such as the rivets 30, I provide the guide plate 32.

The guide plate 32 extends from the straight edge at the front of the guide support 28 to the rear and terminates at the bend or juncture of the support and the presser foot plate 20, which bend or juncture is just in advance of the opening 34 through which the needle 26 passes for the sewing operation.

Secured to the inclined guide support 28 by the set screw 36, I provide the tape or ribbon guide 38 at the side of which is the downwardly extending and inwardly bent hook wall 40.

The tape or ribbon guide is slotted at 42, in which slot the set screw 36 extends into a corresponding internally threaded opening in the guide support 28 wherein it is secured.

The tape or ribbon guide 38 may thus be moved laterally between the extreme position at one end of the slot 42 illustrated in Figs. 2 and 3, and the other extreme position illustrated in Fig. 5 at the other end of the slot. The tape or ribbon guide 38 is held in the selected position on the support 28 to adjust the width of the channel between the hook wall 40 and the side extension 44 and which channel is formed by the wall 40, side extension 44, plate 32 and support 38.

Thus, the space 46 (see Fig. 3), that is the width of the entrance to the channel, may be adjusted to accommodate therein tapes or ribbons of any width. In the presser foot of the

present invention, it is contemplated to make the channel adjustable to accommodate tapes or ribbons from one-eighth to five-eighths of an inch in width.

In operation, the space **46** is adjusted to accommodate the width of the tape or ribbon **24** which is inserted into the presser foot **10** and sewed to the garment **22** in the conventional manner by the needle **26**.

It will be recognized that the tape or ribbon **24** is held against sidewise movement by the hook wall **40** and the side extension **44** and so cannot inadvertently be misaligned with the garment during the sewing operation.

It will further be recognized that I have provided a presser foot having a guiding channel, the width of which may be selectively adjusted to differing widths of tape or ribbon that is sewed by the machine.

It will be further recognized that since the tape is positively guided to the needle by the action of the hook wall and side, no attention to the feeding position of the tape or ribbon is necessary and that sewing machines using presser foots according to my invention may be more easily and speedily operated than heretofore possible.

It will still further be recognized that by reason of the construction described, the tape or ribbon may be cut off at the place of sewing which is located at the bend formed by the presser plate and the support.

While I have shown in detail a specific embodiment of my invention, it will be understood that I do not intend to be limited thereto but wish to claim my invention as broadly as the scope of the prior art and the appended claims permit.

I claim:

1. A presser foot for a sewing machine for sewing a tape or ribbon onto a material, said presser foot comprising a vertical means for securing the foot on the sewing machine, a horizontal presser foot plate extending from the said securing means, a guide support extending upwardly at an inclination from the presser foot plate, a guide on the support, a hook wall on the guide at one side thereof, a side extension extending down from the guide support and spaced from the hook wall, a plate secured to said side extension and spaced from the guide support, said guide being slotted, and a set screw in said slot and screwed to said guide support for adjustably holding the guide on the guide support in selected position.

2. In combination, a presser foot for a sewing machine, said presser foot having a forwardly and upwardly inclined portion formed with a downwardly projecting side extension at one side forming a shoulder, a plate fixed at one end thereof to the underside of said side extension and being disposed parallel to and spaced below said forwardly and upwardly inclined portion, a guide mounted for adjustment on top of said forwardly and upwardly inclined portion for sidewise movement, means to fix said guide to said forwardly and upwardly inclined portion in various adjusted positions of said guide, and said guide having a downwardly extending finger opposite to the side extension and contacting the upper side of said plate, whereby an adjustable tape receiving slot is formed bounded at the top by said upwardly and forwardly inclined portion, at the bottom by said plate, at one side by said side extension, and at the other side by said finger.

3. The combination of claim 2, said plate having an end opposite to its attached and extending beyond said finger forming a tongue which may be depressed to permit slipping a piece of tape sideways into said slot.

4. The combination of claim 3, said plate having at its forward end an upwardly turned lip.

5. The combination of claim 2 wherein the adjustable connection between the guide and the forwardly and upwardly inclined portion comprises a screw screwed to said portion and passing through a longitudinal slot in said guide.

LEONARD SOLDO.

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The following references are of record in the file of this patent:

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