

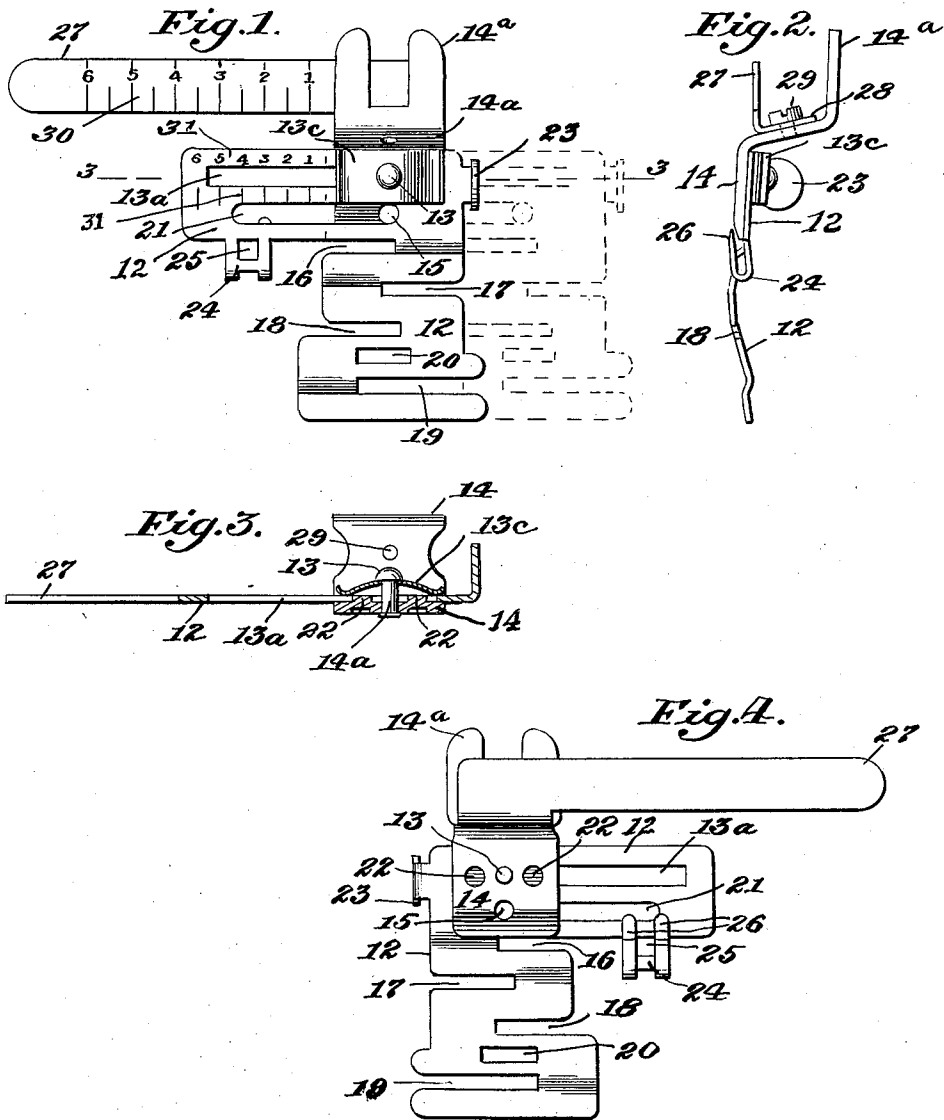
Oct. 5, 1937.

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2,094,918

SEWING MACHINE GUIDING ATTACHMENT

Filed Jan. 7, 1936



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# UNITED STATES PATENT OFFICE

2,094,918

## SEWING MACHINE GUIDING ATTACHMENT

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Application January 7, 1936, Serial No. 57,996

7 Claims. (Cl. 112—139)

This invention relates to certain improvements on the sewing machine guide shown and described in United States Patent No. 1,101,274, dated June 23, 1914, and by virtue of which improvements the range of work, to be performed by the assistance of the guide, is largely increased, as will hereinafter fully appear.

In the accompanying drawing Fig. 1 is a plan view of the improved guide; Fig. 2 is a side view of the same looking from the left of Fig. 1; Fig. 3 is a sectional view on line 3—3, Fig. 1, and Fig. 4 is a bottom view of the guide.

Referring to the drawing, 12 denotes the body of the guide-plate which is adjustably attached to the presser-foot 14 by means of a rivet 13, passing through a long slot 13<sup>a</sup> in the guide-plate, and a curved plate spring 13<sup>c</sup> located beneath the head of said rivet and pressing on said guide-plate. The said guide-plate will thus be frictionally held in any position to which it may be adjusted laterally with relation to the needle-hole 15 in the presser-foot, the latter being provided with a shank 14<sup>a</sup> by which it may be attached to the presser-bar of a sewing machine in a well-known manner.

The guide-plate 12 is provided with right and left open-ended slots 16, 17, 18 and 19 the inner guiding edges of the pairs of which overlap each other in the line of the feed of the work. The said guide-plate is also provided with a closed piping strip slot 20, these slots all being similar to those of the guide-plate of Patent No. 1,101,274 above referred to. The slots 17 and 19 or the slot 20 may also be utilized in stitching bands to material.

In stitching two strips of material together, such as lace edgings or lace insertions, by a very narrow overlapping of their edges, the material may be guided through the slots 16 and 17, or 17 and 18; but for a wider overlapping of their edges the material may be guided through the slots 18 and 19. It will thus be understood that the guide-plate 12, with its front overlapping slots just referred to, may be used for any of the plain stitching purposes mentioned in said Patent No. 1,101,274.

To hold the guide-plate in proper parallel position, in making lateral adjustments, the presser-foot 14 is provided with lugs 22 struck up from its bottom and entering the long slot 13<sup>a</sup> in the said guide-plate. For convenient adjustment of the said guide-plate it is provided with an upstanding lug 23 which may be grasped by the thumb and finger of the user in making lateral adjustments of said guide-plate.

The guide-plate is provided with an offset lug or projection 24 having a closed opening 25 through which a braid or cord may be passed to the needle of a sewing machine. The material of the lug 24 is turned down underneath the said guide-plate so as to extend forward in the form of small spaced-apart fingers 26 which overlap the bottom of said guide-plate and thus provide a braid guideway beneath said guide-plate to ensure accurate guiding of a braid when the construction described is to be utilized as a top-raider.

It will be understood, of course, that for a braiding operation, the guide-plate 12 carrying the cord or braid guide which is offset laterally from the slotted part of said guide-plate, will be adjusted laterally to locate the braid opening 25 close up to and in register with the needle-hole 15 in the presser-foot, as denoted by dotted lines in Fig. 1, such adjustment being permitted by the long slot 13<sup>a</sup> in the guide-plate 12. By thus locating the braid opening close to the needle of the sewing machine intricate braiding designs, requiring quick turning of the work, may be effected.

The long slot 13<sup>a</sup> in the guide-plate affords a means for straight or right line lateral adjustment, relative to the presser-foot 14, of the guide-plate 12 with its front work-guiding slots and with the cord or braid guide 24, 25 and 26, to operative or inoperative positions of the said work-guiding slots, or, alternatively, to operative or inoperative positions of the cord or braid guide, the latter being in its inoperative position, as shown in full lines in Fig. 1, and in its operative position when the guide-plate is adjusted to the position shown in dotted lines in said Fig. 1 to bring the said cord or braid guide in close proximity to the needle hole 15 in the presser-foot 14. When the guide-plate is in its operative position shown in full lines in Fig. 1 the slots 16, 17, 18, 19 and 20 may be utilized for the plain stitching work above described. Thus cording or braiding or plain stitching may be alternatively performed by the use of this guiding attachment, according to the position of adjustment of guide-plate 12 carrying the cord or braid guide.

The device described may be utilized for tucking, as will now be set forth. Attached to the back of the presser-foot 14 is a tucking gage plate 27 having an upstanding lug 28 through which passes a rivet or a set-screw 29 threaded into the presser-foot. The plate 27 is preferably provided with a graduated scale 30, and the guide-plate is also preferably provided with a

graduated scale 31. Tucks from the size of "pin tucks" up to  $\frac{3}{4}$  inch wide may be made and accurately stitched with the material folded where a tuck is to be made. The folded edge is to be inserted from the left into slot 16 or 18 in the guide-plate. The width of the tuck to be made is to be determined by adjusting the guide-plate laterally relative to the needle-hole 15 in the presser-foot. For making pin tucks the guide-plate would be adjusted to the left practically to its limit of movement, as shown by full lines in Fig. 1. For wider tucks the guide-plate is adjusted to the right, the scale 31 being utilized to determine the width of the tucks, each numeral on said scale representing  $\frac{1}{8}$ th inch.

The permanently attached plate 27, with its scale 30, is to be used for indicating the spaces between parallel tucks to be made. This can be accomplished by marking the material with a pencil, both at the beginning of each tuck and at its end, before removing the work from the attachment, using the scale 30 to indicate where the pencil marks should be made, according to the width of spacing desired, and the material is to be folded on a line between the two pencil marks.

In the use of the attachment for edge stitching, piping or stitching bands to material, the guide-plate 12 should be adjusted to the left, as shown by full lines in Fig. 1. For top braiding the guide-plate will be adjusted well to the right, as hereinbefore stated, to bring the guide opening 25 close to the needle-hole 15; while for tucking the adjustment of said guide-plate would depend on the desired width of the tucks to be made.

The forward slotted part of the guide-plate is preferably turned up rather sharply, as shown in Fig. 2, to facilitate insertion and guiding of the work in edge stitching and piping.

From the foregoing it will be understood that the invention provides a sewing machine guiding attachment, of simple construction, by the use of which a large variety of work may be performed.

Aside from the rivet 13, the plate spring 13<sup>c</sup> and the set screw 29, this simple construction consists of only three main parts, to wit, the presser-foot 14, the slotted guide-plate 21 having a cord or braid guide, constructed as shown, and the tucking gage plate 27 attached to the back of the said presser-foot.

What is herein claimed is:—

1. A sewing machine guiding attachment comprising a presser-foot provided with a needle-hole, a laterally adjustable guide-plate mounted on said presser-foot and having a plurality of work-guiding slots, a headed rivet fixed to said presser-foot and a curved plate-spring by means of which said guide-plate is frictionally attached to said presser-foot, said guide-plate having a long slot registering with said rivet, and said presser-foot having struck-up lugs at its bottom and entering said slot, to ensure a parallel movement of said guide-plate when a lateral adjustment thereof is to be made, said lugs also serving to steady said guide-plate in working position.

2. A sewing machine guiding attachment comprising a presser-foot having a needle-hole, a guide-plate having pairs of open-ended slots the inner guiding edges of which overlap each other in the line of the feed of the work, said guide-plate being provided with a cord or braid guide,

offset laterally from its slotted part and means permitting lateral adjustment of said guide-plate to locate its slotted part and the said cord or braid guide carried by said guide-plate to alternative operative and inoperative positions.

3. A sewing machine cording or braiding attachment comprising a guide-plate having a closed cord or braid guiding opening and two spaced-apart turned-down backwardly extending fingers the free ends of which extend beneath said guide-plate adjacent said opening, thus providing a cord or braid guideway beneath said guide-plate.

4. A sewing machine cording or braiding attachment comprising a guide-plate having a cord or braid guiding opening and two spaced-apart turned-down fingers the free ends of which extend beneath said guide-plate adjacent said opening, thus providing a cord or braid guideway beneath said opening, a presser-foot on which said guide-plate is mounted for lateral adjustment, said cord or braid guiding opening being formed in an offset lug or projection with which said guide-plate is provided.

5. A sewing machine guiding attachment by which edge-stitching, cording or braiding and tucking may be performed and consisting of only three main parts, to wit, a presser-foot, a slotted guide-plate attached to and mounted for lateral adjustment on said presser-foot, said guide-plate being provided with a cord or braid guide, offset laterally from its slotted part and a tucking gage-plate having an upstanding lug for attachment to the back of said presser-foot.

6. A sewing machine guiding attachment comprising a presser-foot having a needle hole, a guide-plate mounted on said presser-foot and having right and left, open-ended slots the inner guiding edges of pairs of which overlap each other in the line of feed of the work, said guide-plate being provided with a cord or braid guide which is offset laterally from the slotted part of said guide-plate and which may be adjusted to close proximity to said needle-hole, and means permitting a straight or right line adjustment of said guide-plate on said presser-foot; whereby plain stitching or cording or braiding may be alternatively performed according to the position of adjustment of said guide-plate.

7. A sewing machine guiding attachment comprising a presser-foot having a needle-hole, a guide-plate having pairs of open-ended slots the inner guiding edges of pairs of which overlap each other in the line of feed of the work, said guide-plate being provided with a cord or braid guide comprising a lug and two spaced-apart turned-down fingers the free ends of which extend beneath said guide-plate, and means permitting lateral adjustment of said guide-plate on said presser-foot to locate its slotted part and the said cord or braid guide carried by said presser-foot to alternate operative or inoperative positions.

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