No. 723,121. PATENTED MAR. 17, 1903.

W. M. AMMERMAN.

TUCKING GUIDE FOR SEWING MACHINES.

APPLICATION FILED DEC. 31, 1900.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

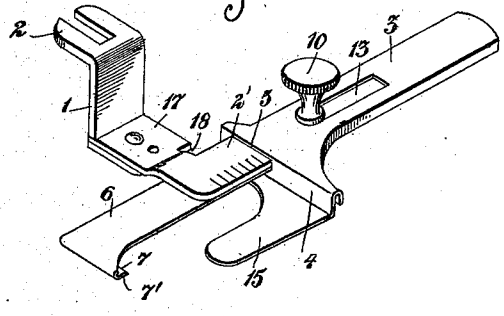


Fig. 2.

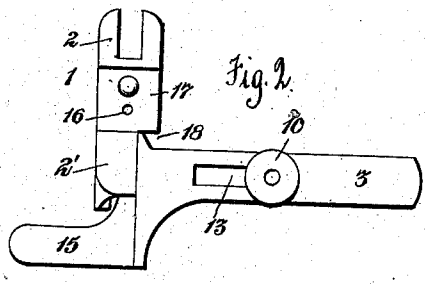


Fig. 3.

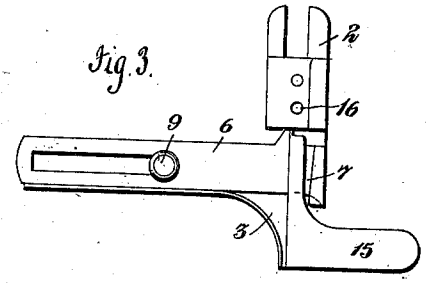


Fig. 5

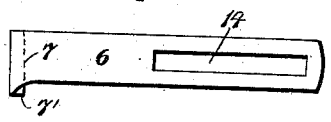


Fig. 4.

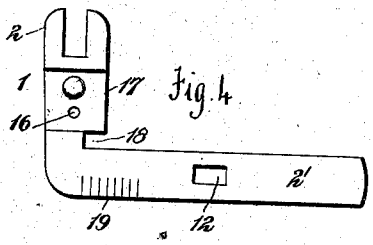


Fig. 6.

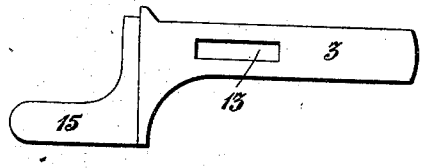
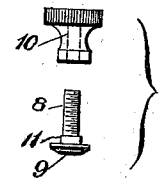


Fig. 7



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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NO MODEL. 2 SHEETS—SHEET 2.

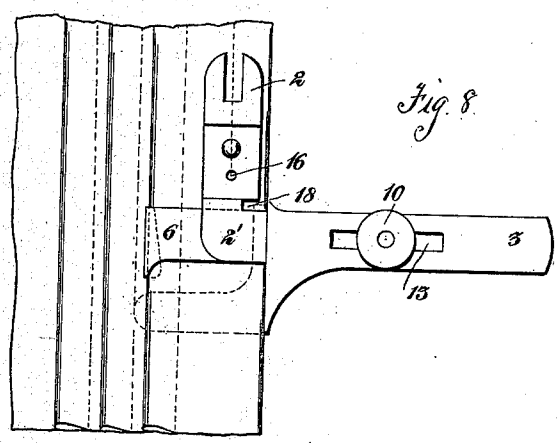


Fig. 8.

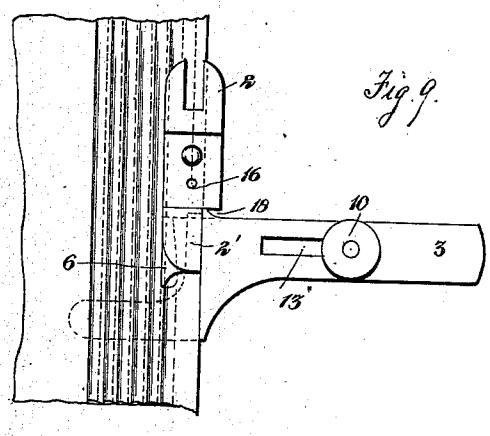


Fig. 9.

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UNITED STATES PATENT OFFICE.

WILLIAM M. AMMERMAN, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO EDWIN J. TOOF, OF NEW HAVEN, CONNECTICUT.

TUCKING-GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 723,121, dated March 17, 1903.

Application filed December 31, 1900. Serial No. 41,583. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. AMMERMAN, a citizen of the United States, and a resident of the city and county of New Haven, State of Connecticut, have invented certain new and useful Improvements in Tucking-Guides for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

My invention relates to improvements in tucking-guides for sewing-machines; and it consists in the novel features of construction and combinations of parts, as hereinafter set forth in detail, and pointed out in the claims, the object of the invention being to improve guides of this character so as to render the same more effective and desirable, particularly in the guiding and controlling of the goods for the stitching of very narrow tucks.

Referring to the accompanying drawings, Figure 1 is a perspective view of a tucking-guide embodying my invention. Figs. 2 and 3 are top and bottom views, respectively, of the same. Figs. 4, 5, 6, and 7 are detail views of the several parts of the tucking-guide disconnected from each other; and Figs. 8 and 9 are plan views of the tucking-guide with the goods in position, showing the same adjusted for different widths of tucks.

In said drawings, 1 indicates the supporting-shank of my improved tucking-guide, which is in the form of an ordinary presser-foot adapted for detachable connection with the presser-bar of the sewing-machine, to which the guide is to be applied, the said shank being provided in the present instance shown with a forked arm 2, which is adapted to embrace the lower end of the presser-bar and be secured in clamped connection therewith in the usual manner. This supporting-shank 1 is provided with a laterally-extending arm 2′, upon which is mounted an adjustable guide-plate 3, which latter rests and slides upon said arm 2 and is provided with a transverse downwardly-bent portion 4 near its forward end, which forms what I term the "fold-guide." A slot 5 in the upper end of this fold-guide wall 4 receives the supporting-arm 2′ loosely therethrough, so as to permit a sliding adjustment of the guide-plate, and also serves to retain an operative connection of the latter with its said supporting-arm. A second guide-plate 6 (shown in detail in Fig. 5) extends through the said slot 5 in the guide-wall 4 at the under side of the arm 2′, and at its outer end is provided with a downward and inwardly turned portion 7, forming what I term the "tuck-guide." The lower or inwardly-turned end of this tuck-guide is somewhat wider than the upper portion of the plate, so as to provide an exposed end, (indicated at 7′,) which serves to enable the operator to more readily enter the tuck into such guide, as will be hereinafter referred to.

The guide-plates 3 and 6 are secured in a stationary adjusted position relative to each other and to the arm 2 by means of a bolt 8, which extends through openings in said parts with its head 9 engaging the under side of the plate 6 and with a clamping-nut 10 engaging the upper side of the plate 3. This bolt 8 is formed with a flat-sided portion 11, which fits in a correspondingly-shaped opening 12 in the arm 2′, so as to render the bolt stationary relative to the latter and also prevent the same from turning, while the openings in the plates 3 and 6 are in the form of elongated slots 13 and 14, respectively, so as to permit of the sliding adjustment of said plates. Any suitable means, however, for securing the guide-plates in adjusted position relative to each other and to the arm 2′ other than that shown and described may be employed without departure from my invention.

In order to insure the work fed through the device being held in proper engagement with the opposite guides 4 and 7, I have provided the guide 4 at its lower edge with a forwardly-projecting flange 15, over which the work passes, which flange is cut away the greater portion of its width beneath the overhanging plate 6, so as to allow ample clearance-space beneath the latter for the free passage of the work in the event of wide tucks being sewed, as shown in Fig. 8, while its position in front of said plate is such as to insure the edges of the work being guided into engagement with the opposite guides, as

will be obvious upon reference to Figs. 8 and 9. A further feature of the said flange 15 being arranged forward of the plate 6 with a space between the same is that such space permits the material being inserted sidewise between the parts so as to readily assume its feeding position to move over the flange 15 and beneath the plate 6.

In the operation of tucking with my improved guide the material to be tucked is first folded and then fed over the flange 15 with its folded edge in contact with the fold-guide 4 while the first seam or line of stitching is being made, the distance of said guide from the line of the needle-opening 16 determining the width of the tuck. After the first tuck is thus made it is folded over and entered into the tuck-guide 7, which latter is properly adjusted to regulate the space between the tucks, while the body of the material is again folded and arranged with the folded edge in contact with the fold-guide 4, after which the material is fed forward to have the second tuck sewed. In this manner any desired number of tucks may be formed easily and with regularity without the necessity of creasing or marking the material.

In order that very narrow tucks may be formed, I have provided the shank portion 17 of the arm 2' with a notch 18 therein, which extends parallel with said arm and in line with one edge thereof, into which the inner edge of the guide-wall 4 may be received, as indicated in Figs. 2, 3, and 9, so as to permit the same being adjusted to a position in near relation to the line of stitching, as indicated in Fig. 9.

A graduated scale (indicated at 19) is formed or located on the upper side of the arm 2 for the purpose of regulating the position of the guide-plate 3, according to any given width of tuck it might be desired to make.

Having thus set forth my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A tucking-guide, comprising a supporting-shank having an arm, a guide-plate having an adjustable sliding connection with said arm and provided with a guide-wall having an opening therein through which said arm extends, and means for securing said guide-plate in adjusted position on the arm, for the purpose set forth.

2. A tucking-guide, comprising a supporting-shank having an arm, a guide-plate supported to slide on said arm and provided with a guide-wall having an opening therein through which said arm extends, a second guide-plate having one end thereof extending through said opening in the first guide-plate, and means for securing said guide-plates in adjusted position relative to each other and to the arm, for the purpose set forth.

3. A tucking-guide, comprising a supporting-shank having an arm, two plates adjustably connected with said arm and each being provided with a guide, and a work-supporting plate or flange projecting from one of said guides in a position below and forward of the opposite overhanging guide-plate, for the purpose set forth.

4. A tucking-guide, comprising a supporting-shank having the form of a sewing-machine presser-foot, said shank being provided with a needle-opening in its foot portion, an arm projecting laterally from its toe, and a notch in one side of its foot in line with the adjacent edge of the arm, a guide having an adjustable sliding connection with said arm and being movable in one direction into said notch, and means for securing said guide in adjusted position on the arm, for the purpose set forth.

WILLIAM M. AMMERMAN.

Witnesses:
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