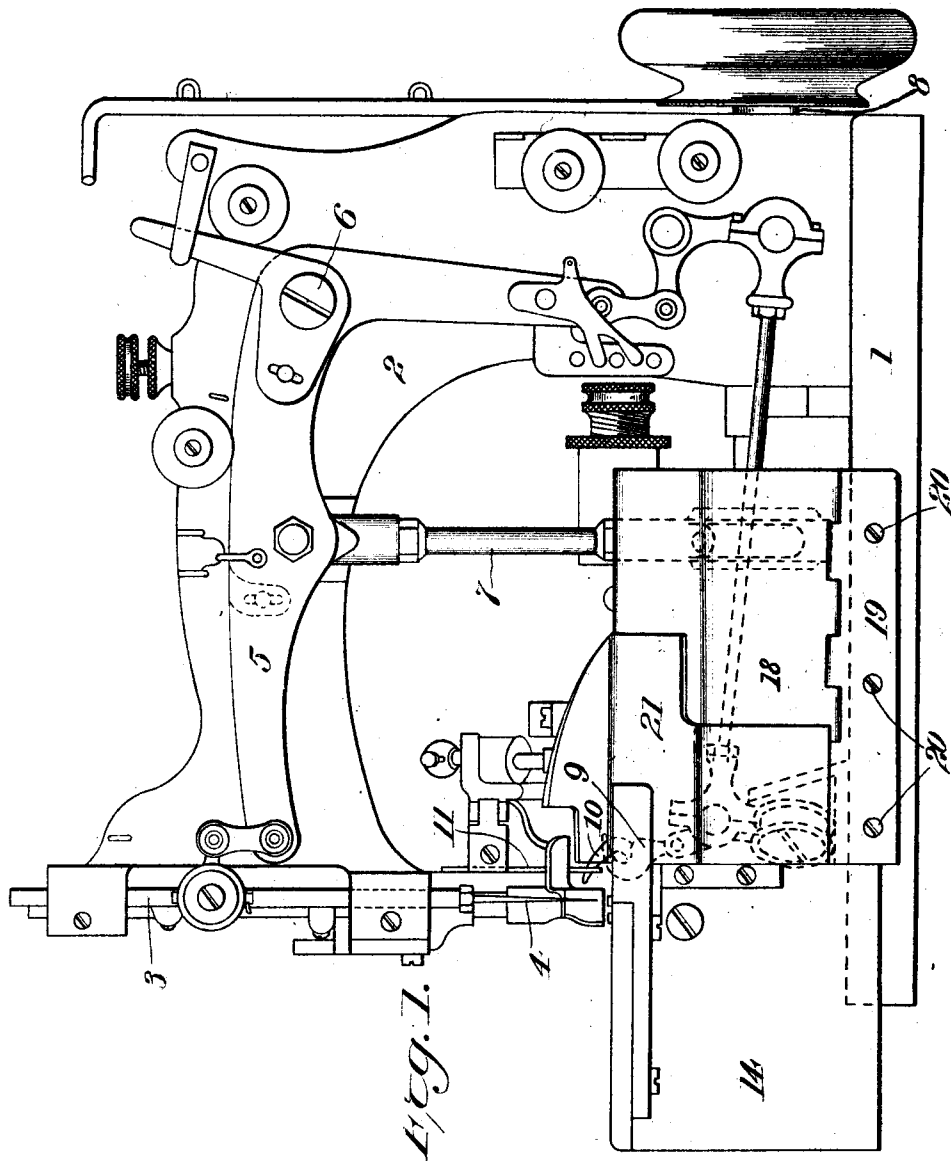


L. ONDERDONK.  
SEWING MACHINE.  
APPLICATION FILED JUNE 18, 1910.

1,064,667.

Patented June 10, 1913.

3 SHEETS-SHEET 1.



WITNESSES  
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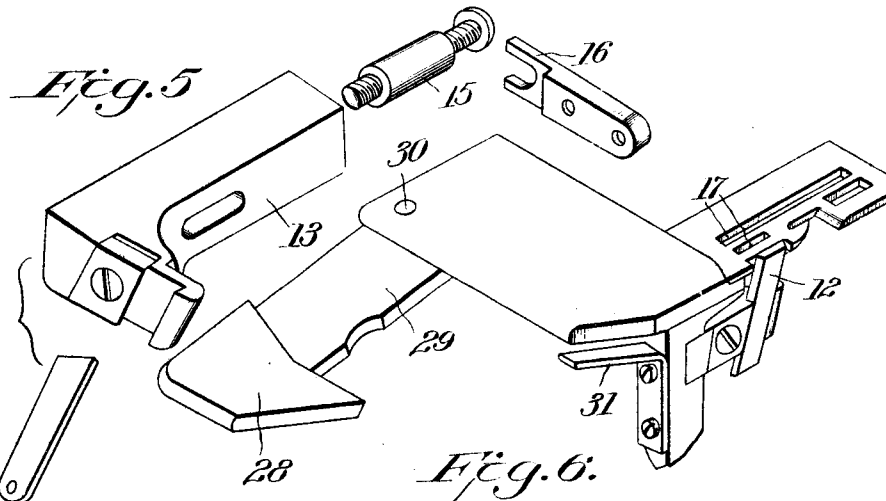
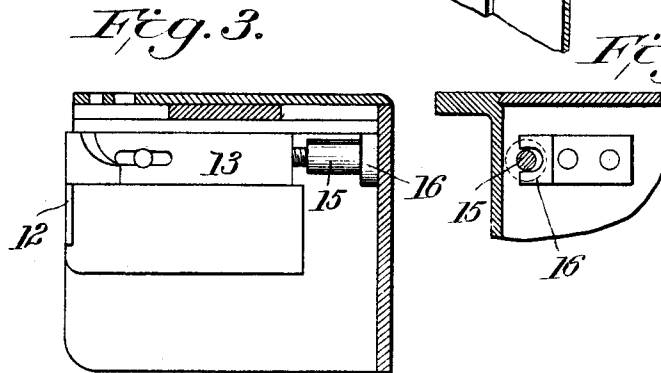
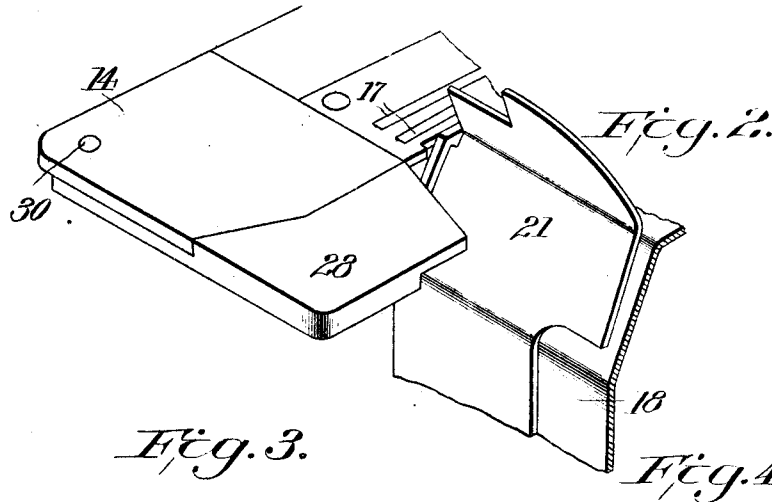
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3 SHEETS—SHEET 2.



WITNESSES  
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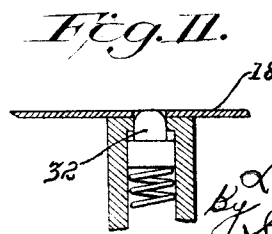
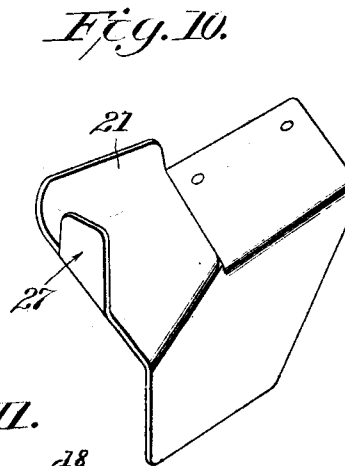
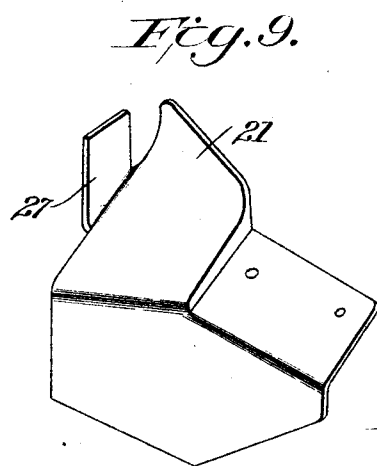
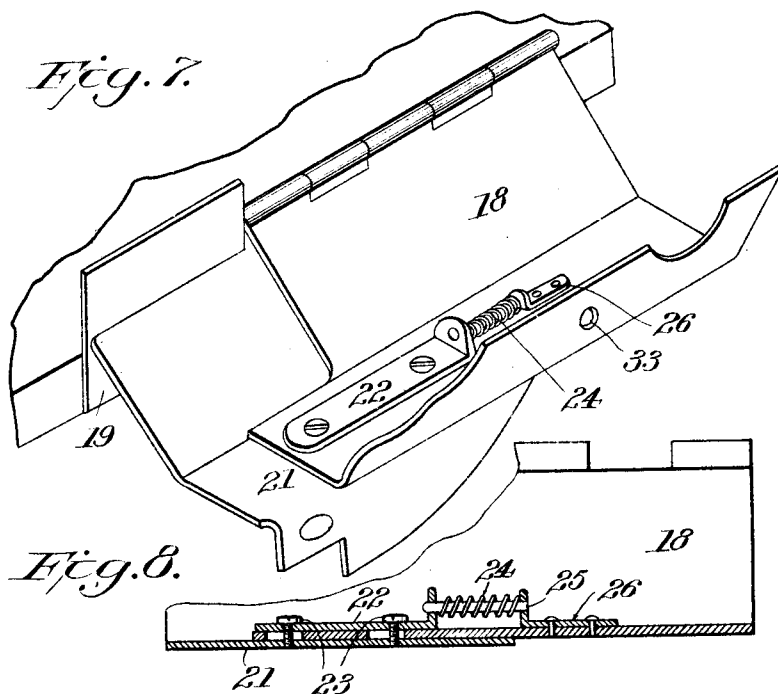
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3 SHEETS—SHEET 3.



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# UNITED STATES PATENT OFFICE.

LANSING ONDERDONK, OF NEW YORK, N. Y., ASSIGNOR TO UNION SPECIAL MACHINE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## SEWING-MACHINE.

1,064,667.

Specification of Letters Patent.

Patented June 10, 1913.

Original application filed July 26, 1904, Serial No. 218,192. Divided and this application filed June 18, 1910. Serial No. 567,677.

*To all whom it may concern:*

Be it known that I, LANSING ONDERDONK, a citizen of the United States, residing at New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Sewing-Machines, of which the following is a description, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

The invention relates to new and useful improvements in sewing machines, and more especially to sewing machines wherein the fabric is trimmed in advance of the stitching mechanism and the edge of the trimmed fabric covered by overseaming stitches. It is apparent, however, from certain aspects of the invention, that the same may be applied to any type of sewing machine wherein the devices set forth in the appended claims are adapted to secure the functions hereinafter attributed thereto.

This application is a division of my application which matured into Patent No. 962,974, dated June 28th, 1910.

An object of the invention is to provide a cover plate for certain parts of the stitch-forming mechanism, which cover plate prevents the trimmed off strip of fabric, or other portions of the material, from in any way interfering with the operating parts of the machine in the rear of the cover plate, and which cover plate is readily removable, whereby access may be readily had to the stitch-forming elements in the rear thereof.

A further object of the invention is to provide a work support with an extension which may be readily moved out of the way, so as to enable access to a removable cover plate located in the rear thereof.

A further object of the invention is to provide a cover plate which is so located relative to a trimming mechanism as to deflect the trimmed off strip out of the way of the stitching elements.

A further object of the invention is to provide a work support having a cover plate of the above character, and an extension or hand rest, which extension is so spaced from the cover plate as to allow a space for the passage of the trimmed off strip.

A further object of the invention is to

provide a cover plate which is readily adjustable to cooperate with the trimmer in its various adjusted positions.

These and other objects of the invention will be in part obvious, and will be in part hereinafter more fully described.

In the drawings,—Figure 1 is a front view of a sewing machine having my improvements applied thereto; Fig. 2 is a detail perspective showing the relation of the work support and cover plate to the trimming mechanism; Fig. 3 is a detail in section through the work support, showing the manner of supporting and adjusting the trimmer; Fig. 4 is a detail showing the manner of holding the adjusting bolt for the trimmer; Fig. 5 is a detached view, showing the lower trimmer, its support and the means for adjusting the same; Fig. 6 is a detail in perspective, showing a portion of the cloth plate, the throat plate, trimmer support and the cloth plate extension in retracted position; Fig. 7 is a detail in perspective, showing the cover plate open to give access to the parts in rear thereof; Fig. 8 is a section through the cover plate, showing the manner of yieldingly supporting a section of the cover plate; Fig. 9 is a detail perspective showing a modified form of a portion of the cover plate; Fig. 10 is a perspective view of the same from a different point; and Fig. 11 is a detail, showing the locking bolt for the cover plate.

The sewing machine as herein shown, consists of a bed plate 1, an overhanging arm 2, in which is reciprocated a needle-bar 3 carrying a needle 4. A needle lever 5 pivoted at 6 to the overhanging arm, is vibrated by means of the link connection 7 with an eccentric on the main shaft 8. Cooperating with the needle beneath the work support, as fully shown and described in the parent application above referred to, is a thread-carrying implement 9, which is shown in dotted lines in Fig. 1. Cooperating with the needle above the work support, and with said first named thread-carrying implement, is a threaded looper 10.

The trimming mechanism consists of an upper trimmer blade 11, which is supported and operated by mechanism such as shown and described in the patent granted to R. G. Woodward and myself, November 27th,

1906, No. 837,106. The means for operating the trimming mechanism will, therefore, not be further described.

The lower trimming blade 12 coöperates with the movable blade 11, and is carried by a support 13, which is slidingly connected to the work plate 14 of the machine. Said support 13 is moved back and forth by a screw 15, which is provided with a reduced neck engaging a yoke 16 formed in a bracket attached to the cloth plate. By turning the screw 15, the support 13 and lower stationary trimming blade may be adjusted laterally relative to the line of feed. The line of feed is indicated by the feed slots 17, shown in Figs. 2 and 6.

It will be noted that the trimming mechanism is in advance of the stitching mechanism. In order to properly deflect the trimmed off strip of fabric away from the stitching mechanism and the operating parts of the machine, I have provided a cover plate 18. Said cover plate 18 is hinged to a bracket 19, secured to the bed plate 1 by screws 20. Said cover plate, as clearly shown in Figs. 2 and 7, consists of an upright part, a rearwardly inclined part and a substantially horizontal part, which not only covers and protects the elements of the stitch-forming mechanism beneath the work support, but also the eccentrics for operating the needle lever and other parts of the machine. Slidably mounted upon the cover plate 18 is a guiding or deflecting plate 21. An arm 22 is secured to the guiding plate 21 by means of screws 23, which extend through slots formed in the cover plate and allow the guiding plate a limited longitudinal sliding movement on the cover plate. A spring 24 mounted on a guiding pin 25 is secured to a rigid bracket 26 on the inner face of the cover plate, and normally presses the guiding plate 21 toward the stationary trimmer or the cloth plate. When the cover plate 18 is in the position shown in Fig. 2, the guiding plate 21 extends substantially at right angles to the line of feed, and is positioned so as to intersect the line of feed at a point slightly in rear of the trimming point. Said guiding plate 21 is also pressed by the spring 24 close against the stationary trimmer, so that the parts in rear of the cloth plate and guiding plate are completely housed. The guiding plate 21 extends above the upper edge of the cloth plate 18 and above the plane of the work support, and is inclined slightly forward. The trimmed off strip after leaving the trimmer, will engage the guiding plate 21, or deflecting device, and be bent downward and forwardly toward the front of the machine, where it may be disposed of. It will be seen, therefore, that I have provided a construction of machine wherein the cloth plate is located almost

wholly to the left of the stitching and trimming point, and a cover plate is located on the opposite side of the stitching point from said cloth plate, and protects the operating parts of the machine.

In Figs. 9 and 10 I have shown a guiding plate or deflecting device which is of slightly different form from that shown in Figs. 1, 2 and 7. I have also shown in these figures, the guiding plate provided with an upwardly extending part 27. This upwardly extending part will be pressed against the stationary trimming blade, and will prevent the trimmed off strip being deflected laterally underneath the cloth plate at a point in front of the cover plate.

It will readily be seen that when the lower stationary trimmer is adjusted, the guiding plate which is spring pressed thereagainst will yield to allow the trimmer to take its new position without requiring any adjustment of the cloth plate by the operator.

The cloth plate 14 is provided with a lateral extension or supplemental cloth plate 28, which is substantially flush with the upper face of the cloth plate, and serves as a hand rest for the operator. This extension projects to the right of the trimming line, as clearly shown in Figs. 1 and 2. The extension is formed as part of an arm 29, which is pivoted at 30 to the cloth plate. A spring bracket 31 engages the under face of the arm 29, and aids in providing a rigid support for the extension.

The object of pivoting the extension 28 is so that said extension may be swung outward, as shown in Fig. 6, to allow the throwing back of the cover plate when access is desired to the parts of the machine in rear of the cover plate. Said extension 28 is also spaced from the deflecting device carried by the cover plate, so as to allow sufficient room for the trimmed off strip to pass down between said extension and the cover plate.

The cover plate is held in closed position by a spring bolt 32, as shown in Fig. 11, which engages an aperture 33 formed in the cover plate. This bolt is normally spring pressed outward, and will yield to a pull on the cover plate to allow the same to open.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A sewing machine including in combination, a cloth plate, a trimming device comprising coöperative members, means beneath the cloth plate for supporting one of said members, means for laterally adjusting said member, and a guide extending above the cloth plate for diverting the trimmed-off strip, means for adjusting said guide to correspond with the different positions of

the trimming device, and means whereby said guide may be moved independent of the trimming device to give access to the operating parts of the machine behind said guide.

5 2. A sewing machine including in combination, a cloth plate, a trimming device comprising cooperative members, means beneath the cloth plate for supporting one of said members, means for laterally adjusting said member, a guide for diverting the  
10 trimmed off strip extending above said cloth plate and located in the rear of the trimming device, means for yieldingly holding said guide against the trimming member, whereby as said trimming member is  
15 adjusted said guide will be moved therewith, and means whereby said guide may be moved independent of the trimming device, to give access to the operating parts of the machine behind said guide.

20 3. A sewing machine including in combination, a cloth plate, a trimming device comprising upper and lower cooperating members, a guide for directing the trimmed  
25 off strip and a member carried by said guide for preventing the strip trimmed off from the body fabric from passing underneath the cloth plate, and means for moving said guide independent of the trimming device, whereby access may be had to the operating parts of the machine behind said guide.

30 4. A sewing machine including in combination, a cloth plate, a trimming device comprising upper and lower cooperating members, said lower member being supported by the cloth plate, means for adjusting the position of said trimming device, a guide for directing the trimmed off strip  
35 located in rear of the trimming device, a member carried by said guide and extending substantially at right angles thereto for preventing the trimmed off strip from passing underneath the cloth plate, means for  
40 adjusting said guide to correspond to the various adjusted positions of the trimming device, and means whereby said guide may be moved independently of the trimming device, so that access to the operating parts of the machine in the rear of the guide, may  
45 be had.

50 5. In a sewing machine for overseaming fabrics, a cloth plate, a trimming device, means beneath said cloth plate to support a portion of said trimming device, means to  
55 laterally adjust said trimming device, an adjustable guide extending above said cloth plate for diverting the trimmed off strip, and means whereby said guide may be  
60 moved independent of the trimming device to give access to the operating parts of the machine behind said guide.

65 6. A sewing machine including in combination, a cloth plate, a trimming device comprising upper and lower cooperating

members, means for laterally adjusting said lower trimming member, a guide for diverting the trimmed off strip extending above the cloth plate and located in rear of the trimming device, means for supporting  
70 said guide independently of said trimming device, and means whereby said guide may be moved laterally to permit of the lateral adjustment of said lower trimmer.

75 7. A sewing machine including in combination, a cloth plate, a trimming device comprising upper and lower cooperating members, means for laterally adjusting said lower trimming member, a guide for diverting the trimmed off strip extending  
80 above the cloth plate and inclining forwardly of a vertical plane passing through the cloth plate, said guide being located in rear of the trimming device, means for supporting said guide independently of said trimming device, and means whereby said  
85 guide may be moved laterally to permit of the lateral adjustment of said lower trimmer.

8. In a sewing machine, a cloth plate having an extension hinged thereto, a trimming  
90 device, a device for deflecting the trimmed off strip, said extension and deflecting device having a free space between them for the passage of the trimmed off strip.

95 9. The combination with a needle and complementary stitch-forming mechanism, a trimmer, a cloth plate located at one side of said trimmer, and having its front portion projecting to the other side of said  
100 trimmer to form a hand rest, a cover in front of parts of the complementary stitch-forming mechanism, and on the side of the trimmer opposite said cloth plate, said cover and hand rest being movable independently of the trimmer, whereby access  
105 to the complementary stitch-forming mechanism may be had.

110 10. The combination with a needle and complementary stitch-forming mechanism, a trimmer, a work support located at one side of said trimmer, and a movable cover for certain parts of the complementary stitch-forming mechanism on the side of the trimmer opposite the work support, said work  
115 support having an extension projecting to the opposite side of the trimmer, said extension being separated from said cover by a free space, and movable relative thereto.

120 11. The combination with a feed, a needle and complementary stitch-forming mechanism, of a trimmer, a work support located at one side of said trimmer and having a projection extending to the other side of the trimmer, and a cover for certain parts  
125 of the stitch-forming mechanism on the side of the trimmer opposite the work support, the upper portion of said cover being located substantially in a line intersecting the line of feed, substantially at right an-  
130

gles at the trimming point, whereby the strip trimmed off is deflected downwardly by said cover, said cover and projection being movable independent of the trimmer, whereby access may be had to the complementary stitch-forming mechanism.

12. The combination with a trimmer, a work support located at one side of said trimmer, and a cover located at the other side of said trimmer, and a deflecting device extending upwardly above the work support and inclined forwardly of a vertical plane passing through the work support, said cover being movable independently of the trimmer, whereby access to the operative parts of the machine behind the cover may be had.

13. In a sewing machine, a cloth plate, a trimming device, a device for deflecting the trimmed off strip, said cloth plate having an extension projecting in front of said deflecting device, said extension and deflecting device having a free space between them for the passage of the trimmed off strip, said extension being movable relative to said deflecting device.

14. In a sewing machine, a horizontal cloth plate, a horizontal extension supported thereby, a trimming device, a removable cover, a device for deflecting the trimmed off strip, said extension being separated from said deflecting device and said cover and forming a free space between said extension and deflecting device and cover whereby the trimmed off strip may pass between the same.

15. In a sewing machine, stitch-forming mechanism, a base plate, a cloth plate carried thereby, a cover plate carried by the base plate for certain parts of the stitch-forming mechanism, said cover plate being located at one side of said cloth plate, and movable whereby access may be had to said stitch-forming mechanism, and a movable extension carried by the cloth plate and located in front of the cover plate, said extension being movable so as to permit access to the cover plate.

16. In an overseaming machine, a main cloth plate, a supplemental cloth plate extending beyond the edge of said main cloth

plate, a swinging cover plate, and means whereby the supplemental cloth plate can be moved out of the path of said cover plate when it is moved upon its hinge.

17. An overseaming machine including in combination, a cloth-supporting plate having its edge terminating substantially at the line of stitching, whereby stitches may be carried around the edge of a fabric supported thereon, a cover plate, and a movable extension carried by said cloth plate in front of the stitching point and serving as a rest for the hand of the operator, said extension being separated from said cover plate, whereby a free space is formed for the trimmed off strip.

18. An overseaming machine including in combination, a cloth-supporting plate having its edge terminating substantially at the line of stitching, whereby stitches may be carried around the edge of a fabric supported thereon, and an extension carried by said cloth plate in front of the stitching point, and serving as a rest for the hand of the operator, a cover plate, said extension being pivoted to said cloth plate, and means for holding said extension in position, said extension being separated from the cloth plate and forming a space for the trimmed off strip.

19. The combination of a bed plate, a standard rising therefrom, an overhanging arm carried thereby, a work support carried by said bed plate, a needle carried by said overhanging arm, a lever for operating said needle, a main shaft, a link connecting said main shaft and said lever, said link being located in front of said standard, complementary stitch-forming mechanism, a cover plate located between the work support and the standard and having a portion thereof directly in front of said link for covering certain of the operative parts, said cover plate being movable, whereby access to the parts covered thereby may be had.

In testimony whereof I affix my signature, in presence of two witnesses.

LANSING ONDERDONK.

Witnesses:

R. TAUBERT,  
C. McNEIL.