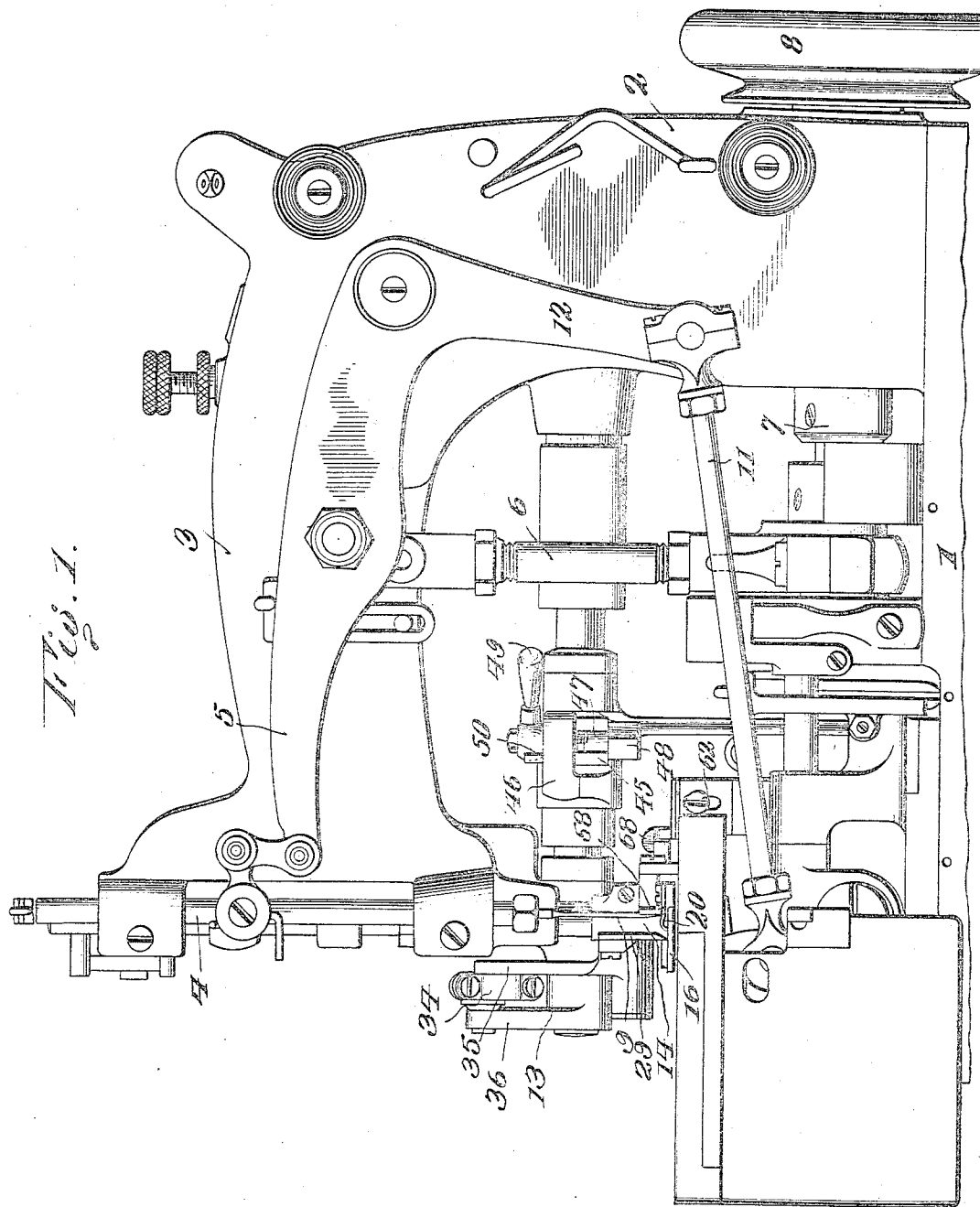


1,265,812.

L. ONDERDONK.
SEWING MACHINE.
APPLICATION FILED MAR. 31, 1913.

Patented May 14, 1918.
6 SHEETS—SHEET 1.



Witnesses

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6 SHEETS—SHEET 2.

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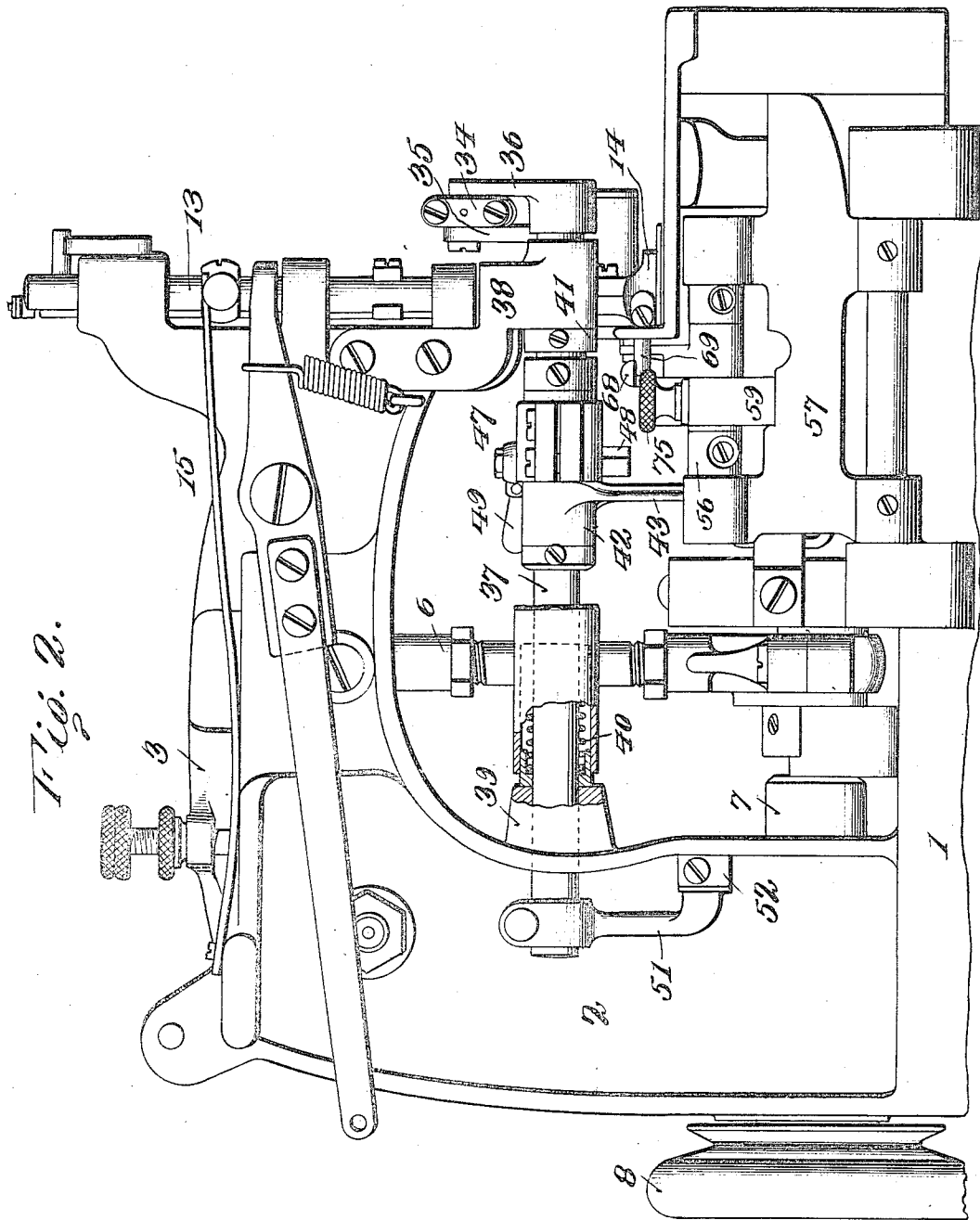


Fig. 2.

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6 SHEETS—SHEET 3.

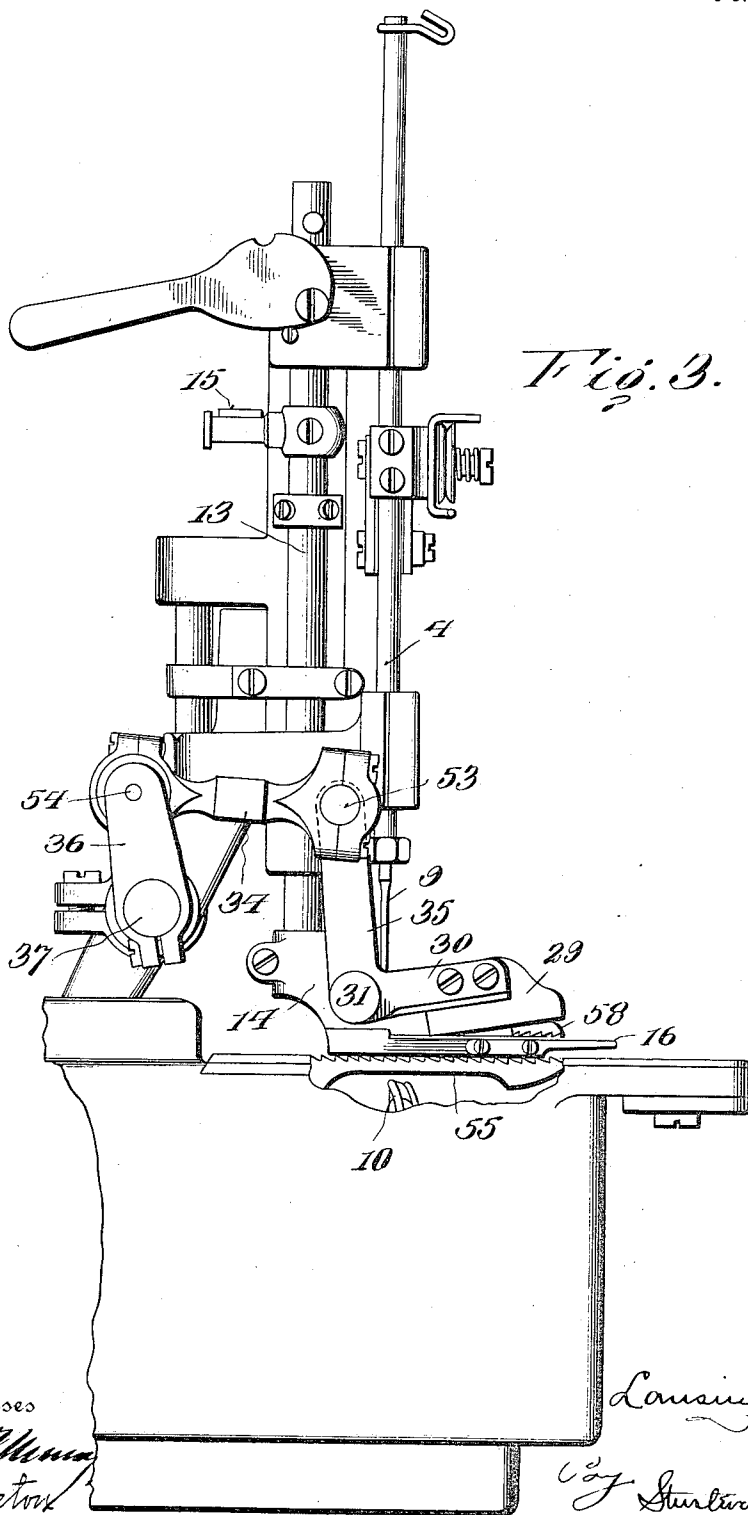
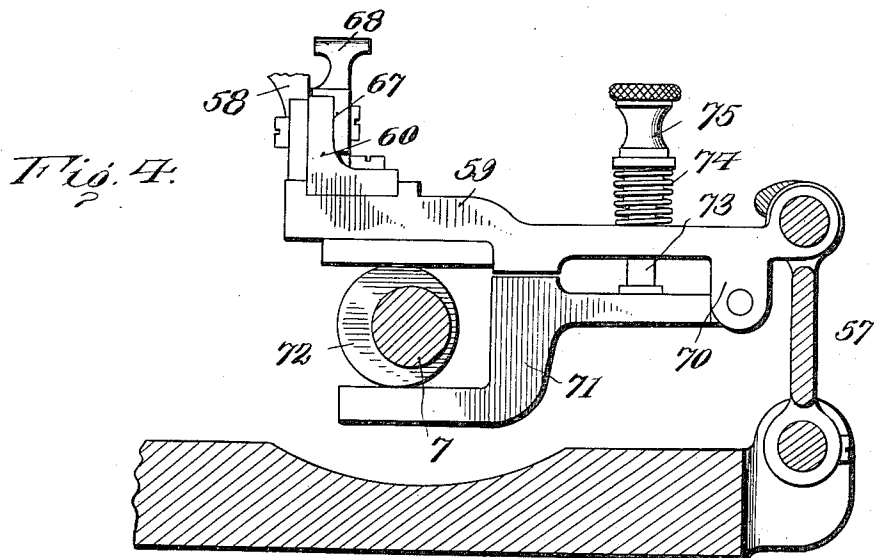
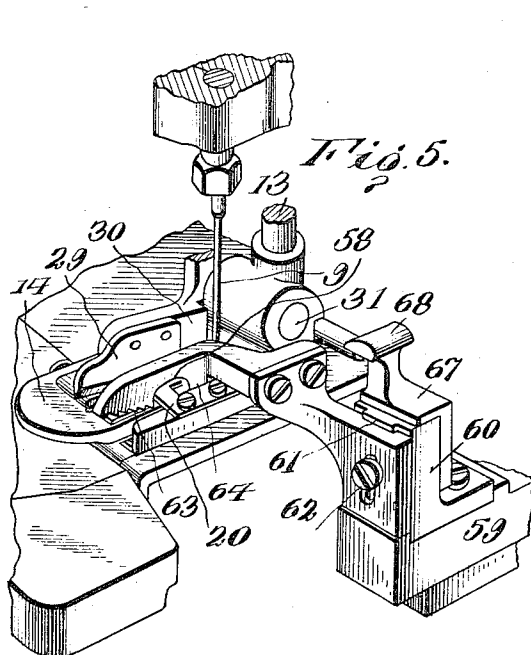
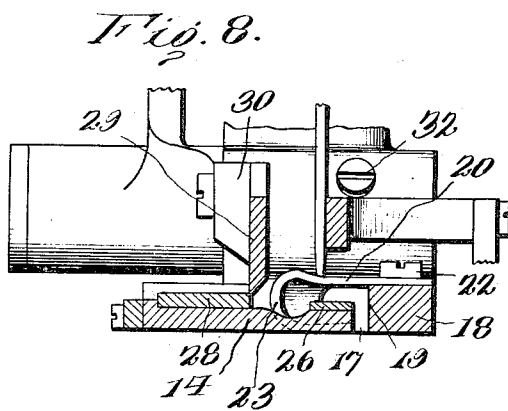
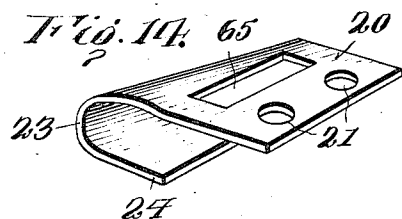
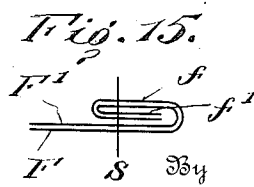


Fig. 3.

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6 SHEETS—SHEET 5.

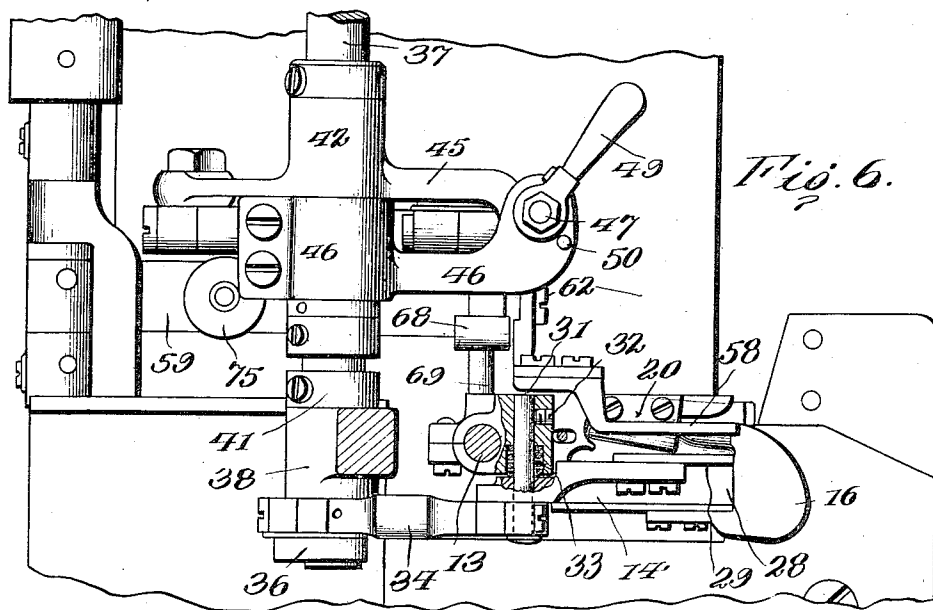
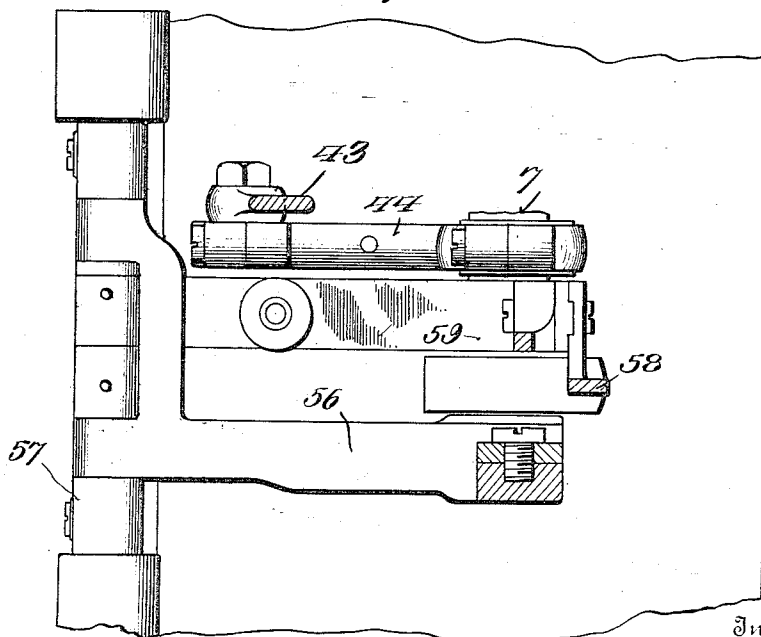


Fig. 7.



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Patented May 14, 1918.
6 SHEETS—SHEET 6.

Fig. 9.

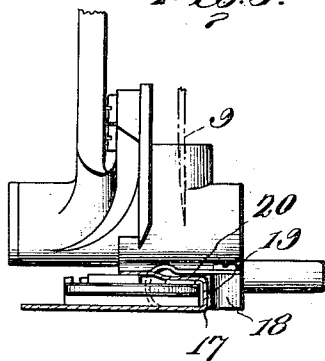


Fig. 11.

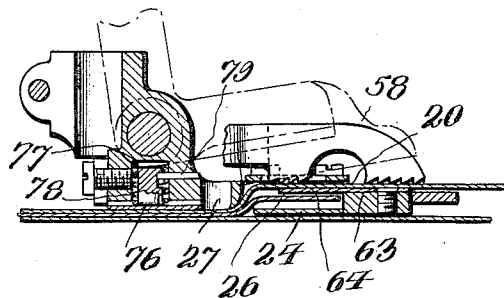


Fig. 10.

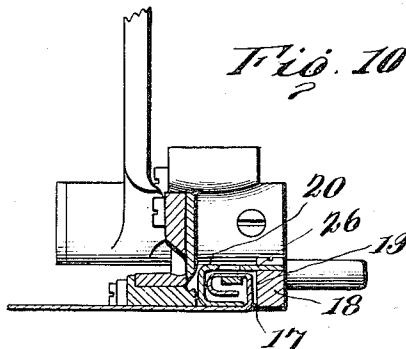


Fig. 13.

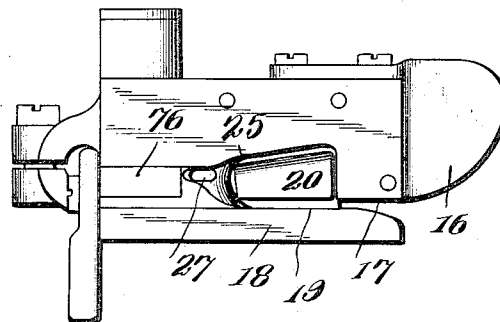
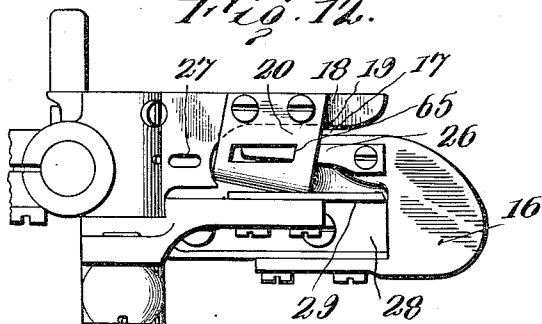


Fig. 12.



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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.

1,265,812.

Specification of Letters Patent.

Patented May 14, 1918.

Application filed March 31, 1913. Serial No. 757,945.

To all whom it may concern:

Be it known that I, LANSING ONDERDONK, a citizen of the United States, residing at 65 Bleecker street, 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 figures of reference marked thereon.

The invention relates to new and useful improvements in sewing machines, and more particularly to sewing machines which are adapted to form a hem seam.

An object of the invention is to provide a machine of the above character with a trimming mechanism which is located in advance of the folder for trimming the edges of the fabric prior to the entering of the folder.

A further object of the invention is to provide a machine of the above character having a folding guide for the edges of the fabric, which machine is also provided with an upper feeding mechanism adapted to engage the folded edges of the fabric prior to the entering of the folder and during the passing of the edges through the folder, whereby the folded over edges may be fed in unison with the main body of fabric being stitched.

A still further object of the invention is to provide a sewing machine with the folding guide for folding over the edges of the fabric, also with a trimming device operating to trim the edges before they enter the folder, and also with a feeding mechanism operating upon the folded over edges to feed the same to the trimmer and to the folder.

These and other objects will in part be obvious, and will in part be hereinafter more fully disclosed.

In the drawings which show by way of illustration one embodiment of the invention:

Figure 1 is a front view of a machine having my improvements applied thereto;

Fig. 2 is a rear view of the same;

Fig. 3 is an end view of the same;

Fig. 4 is a transverse sectional view show-

ing the feed bar which supports and operates the auxiliary feed dog;

Fig. 5 is a detail in perspective showing the relative position of the presser foot, the trimmer, the auxiliary feed dog and the stitching mechanism;

Fig. 6 is a view partly in horizontal section and partly in plan showing the trimmer supporting and operating mechanism;

Fig. 7 is a detail partly in plan and partly in section showing the feed bars for the main and auxiliary feed dogs, and showing the eccentric connection for oscillating the trimmer;

Fig. 8 is an enlarged view transverse of the presser foot at a point in advance of the folder;

Fig. 9 is a front end view of the presser foot showing diagrammatically the position of the trimmer and needle;

Fig. 10 is a transverse sectional view through the presser foot near the delivering end of the folder;

Fig. 11 is a longitudinal sectional view through the presser foot showing the manner of feeding the folded over portion of the fabric through the folder;

Fig. 12 is a top plan view of the presser foot;

Fig. 13 is a bottom plan view thereof;

Fig. 14 is a perspective view of the folder detached from the presser foot;

Fig. 15 is a diagrammatic view showing a hem seam formed on my improved machine.

The sewing machine to which my invention is applied consists of a supporting bed 1 from which rises a standard 2 carrying an overhanging arm 3. A needle bar 4 is reciprocated in the forward end of the overhanging arm 3 by a lever 5 which is oscillated about its support by a link 6, which co-operates with an eccentric on the main shaft 7, which in turn is rotated by the usual belt wheel 8. Mounted at the lower end of the needle bar 4 is a needle 9. Coöperating with the needle beneath the work support is a thread carrying looper 10, see Fig. 3. This looper is oscillated through a link 11, which is connected to a needle lever extension 12. The thread controllers for the needle thread

and also for the looper thread are of the usual construction and will not be described.

Mounted in the forward end of the overhanging arm 3 is a presser bar 13 which carries a presser foot 14 at the lower end thereof. The presser bar is normally spring-pressed downwardly so as to hold the foot in engagement with the material by a leaf spring 15.

The presser foot is formed with a forwardly projecting rounded toe 16. At one side of said toe said foot is slotted, as at 17, so as to form a space or recess, whereby the fabric passing underneath the foot may be brought up through the slot 17 and folded over on to the upper face of the toe and presser foot. The portion 18 of the main presser foot, separated therefrom by the slot 17, is rigid with the foot and the inner wall 19 thereof serves as a folding wall for turning up and holding the folded over edges of the fabric. Mounted on the portion 18 of the presser foot is a folder 20. This folder is provided with suitable openings 21, and screws 22 passing through the openings secure said folder firmly to the portion 18 of the presser foot. The folder projects laterally from the member 18 over the main portion of the foot and is bent downwardly at 23 and thence backwardly at 24, so as to underlie the main portion of the folder. The portion 18 of the presser foot is slightly thicker than the main portion of the presser foot adjacent the same, and, therefore, the upper portion of the folder is raised slightly above the main part of the foot. The presser foot is cut away, as at 25, see Fig. 13, so that the lower part 24 of the folder is substantially flush with the lower face of the presser foot.

Mounted on the main portion of the presser foot is a rearwardly extending rigid tongue 26 which projects into the folder. This tongue is slightly tapered so as to conform with the taper of the folder, and the edges of the fabric which are led up into the folder are folded around the tongue. The presser foot is also provided with a needle opening 27, through which the needle passes.

In order that the edges of the fabric, which are folded over on top of the presser foot, may be trimmed prior to the entering of the folder, I have provided said presser foot with a stationary trimming member 28, with which coöperates an oscillating trimming member 29. The upper face of the presser foot is recessed to receive the stationary trimming member, so that the upper face of the trimming member is in substantially the same plane as the forward portion of the toe of the foot and also the upper face of the finger 26. This trimming member 29 is so positioned relative to the folder that the edges passing underneath the same

may be trimmed prior to the edges passing into the folder where they are turned underneath the finger 26, and subsequently led to the stitching mechanism.

The trimming member 29 which is in the form of a shearing blade is rigidly fastened to an arm 30. This arm 30 is one arm of a rock lever mounted to swing on a pivot stud 31, carried by the presser foot. The presser foot is formed with a recess in which the stud 31 is located, and a set screw 32 engages the stud and holds the same in fixed position in said foot. The outer end of the stud 31 is formed with a head, and the recess in the presser foot is enlarged to form a pocket for a spring 33 which bears against the rock lever carrying the trimmer blade and forces said rock lever outwardly, thus holding the trimmer members yieldingly in contact. The head on the end of the stud limits the movement of the spring 33. The rock lever carrying the trimming member is oscillated by a link 34 connected at one end to a ball stud carried by the upwardly projecting arm 35 of the rock lever, and connected at its other end to a ball stud carried by an arm 36, see Fig. 3. The arm 36 is secured on the outer end of a shaft 37, see Fig. 2. This shaft 37 is mounted in a bracket 38 carried at the forward end of the overhanging arm 3, and in a bearing 39 attached to the standard 2 of the machine. The shaft is moved endwise in its bearings by a spring 40, and a limiting collar 41 engaging the bracket 38 determines the amount of endwise movement given to the shaft by the spring.

Loosely mounted on the shaft 37 is a collar 42. This collar is provided with a downwardly projecting arm 43 which is connected to an eccentric strap 44 coöperating with the eccentric on the main shaft 7. As the main shaft rotates the arm 43 will be oscillated. The collar 42 also carries an outwardly projecting arm 45, which is forked at its forward end, as shown in Fig. 1.

Fixed to the shaft 37 is an outwardly projecting arm 46. This arm at its forward end is projected laterally and carries a stud 47 having a cross head 48 at its lower end. This cross head is shaped so as to pass freely through the forked end of the arm 45 when in one position and to hold the arm 45 firmly locked to the arm 46 when turned at right angles to said position. A handle 49 is attached to the stud for turning the same. A limiting stop 50 is provided for holding the handle in a position so that the arms may be laterally separated. When the arm 46 is locked to the arm 45 they will move as one, and the oscillations of the collar 42 from the arm 43 will be imparted to the shaft 37 and in turn through the arm 36 on the forward end of the shaft and the link 34, said oscillations will be imparted to the rock shaft carrying the trimming member.

When the arm 46 is disconnected from the arm 45 it may be raised, thus oscillating the shaft 37 so as to raise the movable trimmer member from operative engagement with the stationary trimmer member. When the shaft is so positioned, an arm 51 at the rear end of the shaft 37 engages a holding lug 52 on the standard and thus sustains the trimmer in inoperative position. The lower end of the arm 51 is projected laterally and provided with a groove for this purpose. The spring 40 allows the shaft 37 to move endwise sufficiently to bring the arm 51 into engagement with the holding lug.

From the above description it will be apparent that I have provided a trimming mechanism which will operate upon the folded over edges of the material to trim the same in advance of the edges entering the folder. The arm 35 of the rock shaft supporting the trimming member is preferably so disposed that the center 53 of the pivotal connection between the arm and the link 34 is substantially in the same horizontal plane as the center 54 between the arm 36 and the link 34. The trimmer, as above noted, is mounted on the presser foot and will rise and fall with the presser foot, as the fabric varies in thickness, and as the lower feeding member forces the fabric against the foot for its feeding action. Inasmuch as these pivotal centers 53 and 54 are substantially in the same horizontal plane, these movements of the presser foot will impart substantially no movement to the trimmer member. In other words, the trimmer member has a substantially fixed working position relative to the stationary member. Furthermore, when the presser foot is raised for the insertion of the fabric underneath the same, the pivotal point 53 will be carried above the pivotal point 54. This movement of the pivotal point 53 will tend to turn the rock shaft carrying the trimmer member so as to further raise the movable member away from the stationary member, and, as a consequence, facilitate the insertion of the material underneath the trimmer member ready for the trimming and feeding of the same to the stitching mechanism.

The material is fed to the stitching mechanism by a main feed dog 55. This feed member is carried by the main feed bar 56 (see Fig. 7) which is pivoted to a feed rocker 57, which, in turn, is oscillated back and forth by the usual mechanism. The feed bar 56 is also raised and lowered by an eccentric on the main shaft 7.

As a means for carrying the folded over edges of the fabric to the trimmer and through the folder to the stitching mechanism, I have provided an auxiliary feed dog 58. This feed dog is carried by a feed bar 59. Said feed bar is provided with an upwardly projecting bracket 60, which is

formed with a rib 61 and said auxiliary feed dog is secured to the rib by a screw 62, so that said feed dog may be adjusted vertically. The feed bar 59 is pivoted at its rear end to the feed rocker 57, and, therefore, the auxiliary feed dog will move back and forth in unison with the main feed dog.

This auxiliary feed dog is formed with two feeding portions 63 and 64. The forward feeding portion 63 extends in front of the folder 20 and over the presser foot so as to engage the folded over edges of the fabric and feed the same to the trimmer and into the folder. Said feeding portion of the auxiliary feed dog coöperates with the upper face of the presser foot during its feeding action. The folder 20 is formed with a rectangular slot 65 and the feeding portion 64 of the auxiliary feed dog projects through said slot and engages the folded over edges and carries the same through the folder. During this action of the auxiliary feed dog, the feeding portion 64 coöperates with the supporting tongue 26 carried by the presser foot, and projects rearwardly into the folder as above described. It will be apparent, therefore, that I have provided a feeding mechanism which not only engages the under face of the material being hemmed and stitched into a seam, but which also engages the upper face of the folded over edges and positively carries said folded over edges to the trimmer and into the folder and to the stitching mechanism. As the timing of the feeding members is the same, the folded over edges and the body of the fabric will be fed simultaneously and evenly to the stitching mechanism. This enables the starting of the hem seam without any dragging back of the folded over edges until they reach the stitching mechanism, where they are stitched to the body fabric and carried along as the body fabric is fed from the machine by the under feed.

As a means for raising the auxiliary feed dog to permit the insertion of the material, I have provided the bracket 60 with an upwardly projecting arm 67, which has a laterally projecting head 68 at its upper end. The presser foot is provided with a laterally projecting pin 69 which is rigidly attached to the foot and projects laterally underneath the overhanging head 68. When the presser foot is raised this pin 69 will engage the head 68 and raise the auxiliary feed dog with the presser foot. In order to permit the auxiliary feed dog to be raised, as above described, I have formed the feed bar 59 with a downwardly projecting lug 70. An arm 71 is pivoted to said lug and projects underneath the eccentric 72, which raises and lowers the feed bar 59. A post 73 carried by the arm 71 extends upwardly through a slot in the feed

bar 59 and a spring 74 surrounds said post. A nut 75 is threaded on the upper end of the post and serves as a means for increasing the tension of the spring 74. This spring 74 normally holds the feed bar 59 pressed toward the arm 71, and said feed bar and arm in contact with the operating eccentric 72. It permits, however, the bar 59 to be raised from the eccentric and the feed dog raised with the presser foot, as above described.

In the operation of my device the two pieces of fabric F, F', which are to be joined are superposed upon each other and led underneath the presser foot, the edges f, f' being carried up through the slot 17 over on to the upper face of the foot. The auxiliary feed dog will engage the folded over edges simultaneously with the main feed dog engaging the under face of the fabric, and said fabrics with their edges folded over will be carried forward so that the folded over edges will be placed underneath the moving trimmer blade, and the edges severed. The folded over edges are then carried into the folder and are folded downwardly underneath the supporting finger 26. The auxiliary feed dog also engages the folded over edges as they are passed through the the folder and further positively feeds the same until it reaches the stitching mechanism. The folded over edges are directed to the stitching mechanism and a line of stitching is passed there-through. (See Fig. 15.)

From the above it will be noted that the edges f, f' of the fabric are folded underneath as they are presented to the stitching mechanism. In order to facilitate the passing of these edges underneath the foot, which form an extra thickness in the fabric, I have provided the presser foot with a yielding section 76. This yielding section is directly in rear of the needle and is practically the same width as the folded under edges of the fabric. The foot is recessed to receive the yielding section 76 and this yielding section is carried by the post extending upwardly into the socket 77. A spring 78 surrounds the post and yieldingly forces the section 76 downwardly into contact with the material. The socket 77 is formed with a groove and a pin 79 projects into the groove and limits the downward movement of the section 76, so that it is normally held flush with the lower face of the foot. The presser foot in front of the yielding section 76 is recessed, so as to form a guideway for the folded under edges as they pass from the folder to the stitching mechanism underneath the yielding portion 76.

While I have described my invention as particularly adapted for forming a hem seam, it will be understood that from cer-

tain aspects of the invention, the same may be used for other purposes, as for trimming and hemming a single piece of fabric and also for other purposes. The trimming mechanism herein shown and described forms no part of the present invention, *per se*, but is shown, described and claimed in my co-pending application filed of even date herewith.

The rounded forwardly projecting toe of the presser foot 14 serves as a rest for the fingers of the operator, as well as a rest for the fabric, and facilitates the manipulation of the fabric by the operator.

It is obvious that minor changes in the details of construction and the arrangement of parts may be made, without departing from the spirit of the invention, as set forth in the appended claims.

Having thus described my invention what I claim is:

1. A sewing machine including in combination stitch forming mechanism, a folder for folding the material in advance of the stitch forming mechanism, a trimmer for trimming the edge of the material before it is folded, and a feeding mechanism including a feeding member engaging the folded over edge in advance of the folder and also engaging the folded over edge intermediate the ends of the folder.

2. A sewing machine including in combination stitch forming mechanism, a presser foot, a folder carried by said presser foot for folding over an edge of fabric, a trimmer supported by said presser foot for trimming the folded-over edge of fabric in advance of the folder, and a feeding mechanism for engaging the folded-over edge and feeding the same through the folder.

3. A sewing machine including in combination stitch forming mechanism, a presser foot, a folder carried by said presser foot for folding over an edge of fabric, a trimmer supported by said presser foot for trimming the folded-over edge of fabric in advance of the folder, said trimming mechanism including a member fixed to the presser foot and a member pivoted to the presser foot, and a feeding mechanism for feeding the fabric.

4. A sewing machine including in combination stitch forming mechanism, a presser foot, a folder carried by said presser foot for folding over an edge of fabric, a trimmer supported by said presser foot for trimming the folded-over edge of fabric in advance of the folder, said trimming mechanism including a member fixed to the presser foot and a member pivoted to the presser foot, and a feeding mechanism for feeding the fabric, said feeding mechanism including a main feed dog and an upper feed dog, said upper feed dog having a portion for engaging the fabric in advance of the folder

and a portion extending through a slot in the folder for engaging the material as it passes through the folder.

5 5. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot formed therein, through which the edge of the fabric may be led, a folder carried by the presser foot for folding over said edge, a fixed tongue
10 carried by the presser foot and extending into the folder, around which said edge is folded, and a feed dog engaging said fabric on said tongue between the ends of the folder for feeding the folded-over edge of the fabric through the folder.

15 6. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot formed therein, through which the edge of the fabric may be led, a folder carried by the presser foot for folding over said edge, a fixed tongue
20 carried by the presser foot and extending into the folder, around which said edge is folded, and a feed dog adapted to engage said fabric on said tongue for feeding the folded-over edge of the fabric through the folder, said feed dog having a portion engaging the fabric in advance of the folder,
25 and a portion extending through a slot in the upper face of the folder for engaging the fabric in the folder.

30 7. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot formed therein, through which the edge of the fabric may be led, a folder carried by the presser foot for folding over said edge, a fixed tongue
35 carried by the presser foot and extending into the folder, around which said edge is folded, and a feed dog adapted to engage said fabric on said tongue for feeding the folded-over edge of the fabric through the folder, said feed dog having a portion engaging the fabric in advance of the folder,
40 and a portion extending through a slot in the upper face of the folder for engaging the fabric in the folder, and a trimmer carried by the presser foot, and trimming said folded-over edge in advance of the folder.

45 8. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot formed therein, through which the edge of the fabric may be led, a folder carried by the presser foot
50 for folding over said edge, a fixed tongue carried by the presser foot and extending into the folder around which said edge is folded, means for engaging the folded over edge intermediate the ends of the folder,
55 and a trimming mechanism carried by said presser foot, said trimming mechanism including a stationary member located at one side of said folder and extending to a point in advance thereof, and a movable member
60 carried by said presser foot, and cooperating

ing with the stationary member to trim the edge in advance of the folder.

9. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving
70 and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, means for engaging the folded over edge intermediate the ends of the folder and
75 a trimming mechanism in advance of the folder for trimming said folded-over edge.

10. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving
80 and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, means for engaging the folded over edge intermediate the ends of the folder,
85 and a trimming mechanism including a fixed member secured in a recess in the upper face of said presser foot, at one side of said folder and extending to a point in advance thereof, a movable trimmer member carried
90 by said presser foot, and cooperating with said stationary member to trim the folded-over edge in advance of the folder.

11. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving
105 and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, a main feeding device and a feeding
110 device for engaging and feeding the folded-over edge through the folder in unison with said main feeding device.

12. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving
120 and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, and a feeding device having a feed-
125 130.

ing portion engaging the folded-over edge in advance of the folder, and a feeding portion extending through a slot in the folder for engaging the folded-over edge as it passes through the folder.

13. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, a trimming mechanism in advance of the folder for trimming said folded-over edge, and a feeding member for engaging and feeding the folded-over trimmed edge through the folder.

14. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, said presser foot having a recess on its under face in rear of the folder and in line with the folded-over edge, and a yielding member mounted in said recess and bearing against said folded-over edge.

15. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving and folding over an edge of fabric led through said vertical slot, a fixed tongue carried by the presser foot and extending into said folder, over which said edge is folded, said presser foot having a recess on its under face in rear of the folder and in line with the folded-over edge, a yielding member mounted in said recess and bearing against said folded-over edge, and a trimmer carried by the presser foot for trimming the folded-over edge in advance of the folder.

16. A sewing machine including in combination stitch forming mechanism, a presser foot having a vertical slot and a recess in its upper face leading to said slot, a folder mounted on said presser foot, said folder being bent downwardly and thence laterally and positioned in said recess for receiving and folding over an edge of fabric led through said vertical slot, a fixed tongue

carried by the presser foot and extending into said folder, over which said edge is folded, said presser foot having a recess on its underface in rear of the folder and in line with the folded-over edge, a yielding member mounted in said recess and bearing against said folded-over edge, a trimmer carried by the presser foot for trimming the folded-over edge in advance of the folder, and a feeding mechanism including a feeding member for engaging the folded-over edge and feeding the same through said folder.

17. A sewing machine including in combination a presser foot, means carried thereby for folding over an edge of fabric, a trimmer carried by the presser foot for engaging and trimming said folded-over edge in advance of the folder, and means whereby said trimmer may be rendered ineffective, a feeding mechanism including a feed dog for engaging and feeding said folded-over edge through the folder, and means whereby said feed dog may be raised with the presser foot.

18. A sewing machine including in combination stitch forming mechanism and a cloth plate, a presser foot, a trimming device and a feeding device, a single implement to raise said presser foot, trimming device and feeding device above said cloth plate.

19. A sewing machine including in combination a stitch forming mechanism, a cloth plate, a presser foot, a trimming device, a feeding device and a folding device, a single implement to raise said presser foot, said trimming device, said feeding device and said folding device above said cloth plate.

20. In a sewing machine including in combination a stitch forming mechanism, a folder for folding the material in advance of the stitch forming mechanism, a feeding device operating on the material passing through the folder, said feeding device being located to act on the goods between the receiving and discharging end of said folder.

21. A sewing machine including in combination stitch forming mechanism, a feeding device, a folder for folding the material in advance of the stitch forming mechanism, said folding device having a feed slot cut into its outer wall through which said feeding device operates, said folding device having a supplemental wall below said feed slot whereby the goods passing through the folding device are supported during the action of the feeding device upon the material.

22. A sewing machine including in combination stitch forming mechanism, a presser foot, a trimming device, a main feeding device, a supplemental feeding device, said

presser foot having a guide around which the fabric is passed, said main feeding device acting upon the fabric passing underneath the guide, said supplemental feeding
5 device acting upon the fabric passing above the guide, said trimming device being located in advance of the guide and acting upon the fabric also passing above the guide.

23. A sewing machine including in combination stitch forming mechanism, a presser
10 foot, a trimming device co-acting with said presser foot, a flexible connection between said trimming device and its operating mechanism, a feeding device co-acting with

said presser foot and a second flexible connection between said feeding device and its
15 operating mechanism whereby the said presser foot, the trimming device and feeding device can be raised simultaneously without destroying their operating
20 nections.

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

LANSING ONDERDONK.

Witnesses:

R. S. OSWALD,
J. H. HOWELL.