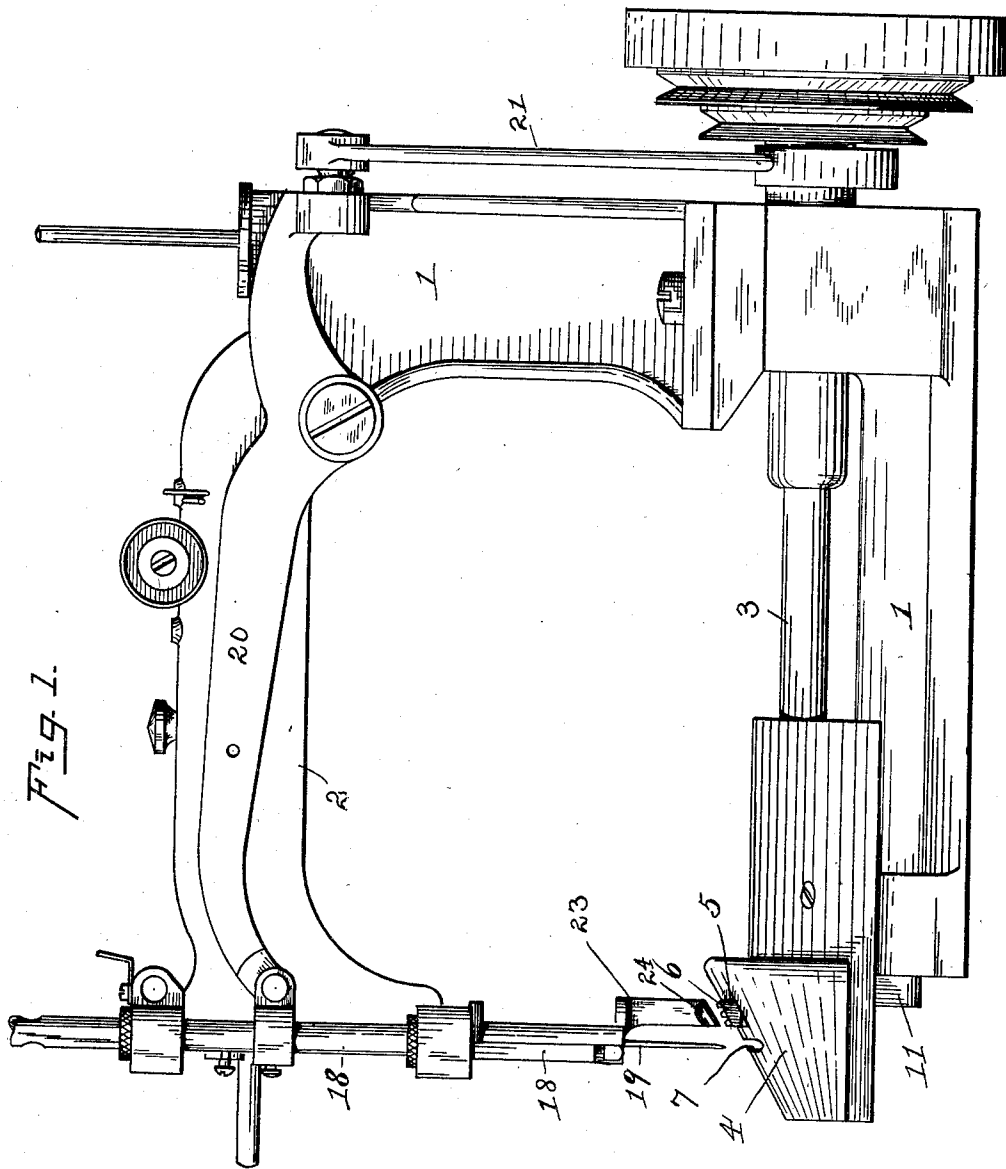


G. P. COMEY.  
SEWING MACHINE.  
APPLICATION FILED APR. 2, 1909.

1,006,535.

Patented Oct. 24, 1911.  
2 SHEETS—SHEET 1.



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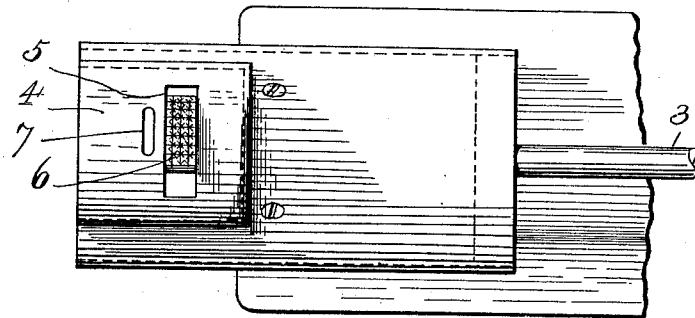
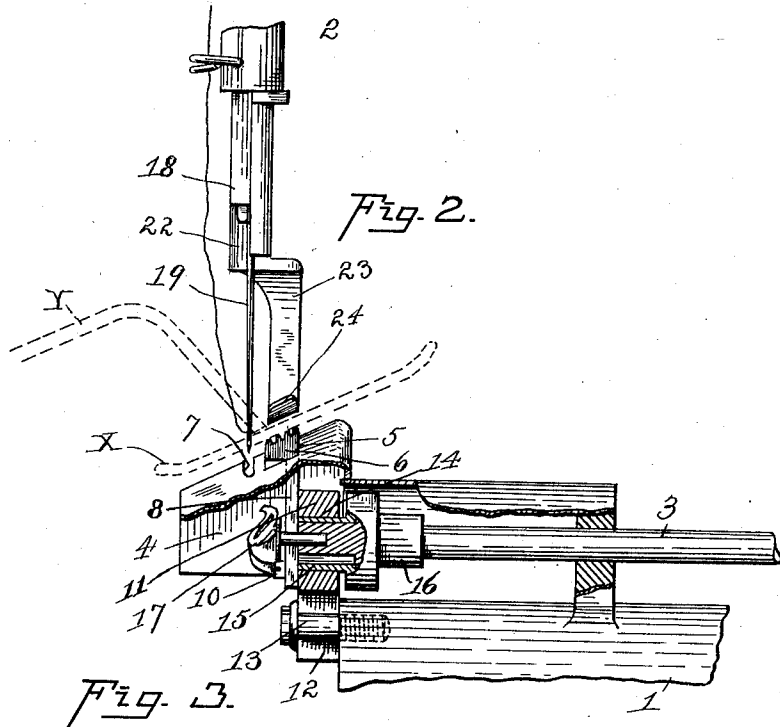
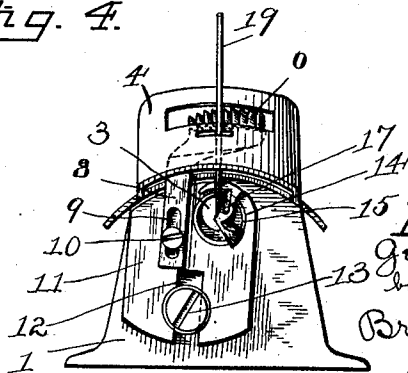


Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## SEWING-MACHINE.

1,006,535.

Specification of Letters Patent.

Patented Oct. 24, 1911.

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*To all whom it may concern:*

Be it known that I, GEORGE P. COMEY, a citizen of the United States, residing at Cleveland Heights Village, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sewing-Machines, of which the following is a specification.

In the art of millinery there has been a gradual tendency away from hats having the ordinary small crowns and a development toward what is known in the trade as the French crown, and by this is meant that the rim, with the usual size opening therein, which is adapted to fit the head of the wearer and to hold the hat properly on the head, is provided with a crown of larger size, and in securing this crown to the rim it has been necessary, up to the present time, to first pin it in place and then sew the parts together by hand. The necessity for sewing these French crowns to the rim by hand has heretofore rendered the manufacture of hats having crowns of this type expensive and unsatisfactory, aside from the fact that the finished product does not present the neat appearance and structure which it would possess if the crown were sewed to the rim by machine. The reason for hand work in the uniting of these crowns with rims is due to the fact that with machines of ordinary construction the presser foot and feeding devices are so located that the needle is held away from the base of the crown so that it is impossible for it to pierce the edge of the crown in the sewing operation, and further on account of the fact that if the edge of the crown rises abruptly from the rim there will not be sufficient angularity given to the sides of such crown to permit the needle to pierce the edge thereof.

The object of the present invention, therefore, is to arrange and to provide a sewing machine with a presser foot and feeding mechanism of a construction and arrangement such that these French crowns may be readily sewed upon the rim just as the other portions of the hat are sewed together and without first pinning or basting the parts together.

More specifically the invention relates to a sewing machine having the presser foot and feeding mechanism cooperating therewith arranged to the inside of the needle toward the arm of the frame so that the needle is left clear to engage the edge of the crown

and carry the stitches through the rim so that the parts of a hat of this type when sewed together present a finished product which possesses neatness and artistic workmanship, and relates further to an inclined throat plate which will feed the parts at an angle to the longitudinal axis of the needle so that the latter may engage above the lower edge of the crown in forming the stitch.

The invention may be further briefly summarized as consisting in the construction and combinations of parts hereinafter set forth in the following description, drawings and claims.

Referring to the drawings, Figure 1 is a side elevation of a sewing machine with my device applied thereto; Fig. 2 is a side elevation of a portion of a machine with portions broken away; Fig. 3 is a top plan view of the bed and throat plate; and Fig. 4 is an end view looking toward the right of Fig. 1.

In carrying out the invention any preferred form and construction of parts may be employed so long as they possess the necessary features, but I have shown one form in the drawings which meets the requirements with great efficiency and in such embodiment 1 represents the frame of the machine having an arm 2, all of such parts being of the usual type and supporting the driving parts for the head as well as the driving mechanism and shaft 3 for the lower stitch forming device and feeding mechanism.

Secured to the lower portion of the frame of the machine is a throat plate 4 which is preferably in the form of a portion of a truncated cone with the axis thereof in alignment with the axis of the shaft 3 and arranged so that it inclines upward at substantially an angle of forty-five degrees from the end of the machine toward the frame 1 with the curve extending from front to rear. This inclination is for a purpose to be described. This throat plate 4 is provided with an opening 5 for the reception of the feeding member 6 which is of the usual form and has serrations therein forming the usual teeth which engage the material and move it along under the presser foot to be described. The throat plate 4 is still further provided with an elongated opening 7 on the outside of the opening 5 to permit the needle to pass down in its cooperation with the stitch forming device.

The feeding member 6 is provided with a

shank 8 having therein a slot 9 adapted to receive the shank of a screw 10 secured in a block 11. This block 11 is provided with a slot 12 the walls of which engage the shank of a screw 13, and further with an opening 14 for receiving an eccentric 15 which is hollow and receives the shaft 3 and is integral with a suitable hub 16 secured to the shaft 3. As the shaft 3 is rotated, the eccentric shifts the block so that it moves upon the shank of the screw 13 and causes the feeding member to feed the articles to be sewed in a well known manner. A suitable stitch forming device 17 is mounted on the end of the shaft 3 under the throat plate and is arranged so that it cooperates with the needle in the formation of what is commonly called the chain stitch.

Mounted in the arm 2 is the usual needle rod or bar 18 provided with a needle 19 adapted to pass down through the slot 7 in its up and down movement, this movement being conveyed to it by a lever 20 pivoted to the arm and operated by a connected rod 21 and eccentric not shown. The frame 1 is further provided with the usual post 22 to which is secured the presser foot 23 which is not of the usual construction, but is of a type such that it has its lower foot portion 24 extending to one side of the needle and preferably upon the side toward the arm and frame of the machine so that the needle is clear toward the end of the machine as shown. Let us assume, for example, that the rim of a hat, represented by the portion X shown in dotted lines in Fig. 2, and the crown represented by the portion shown in dotted lines Y in Fig. 2, are placed together in proper position under the needle and above the throat plate, then it will be seen that as the machine is operated in the ordinary manner and the needle moves up and down in its formation of the stitch it will pierce the lower edge of the crown and will pass through the rim, thus forming the stitch between the two and firmly securing them together.

Having described my invention, I claim:—

1. A machine for sewing crowns of hats to their rims comprising stitch forming mechanism including a needle, a throat plate extending about the needle and having an opening therein for said needle, a feeding device extending on one side of the needle and passing through the throat plate, a single presser foot element on the same side of the throat plate as the needle and on the same side of the needle as the feeding device and located at a distance from the needle to

provide an intervening space between the two, and means for operating the several parts.

2. A machine for sewing crowns of hats to their rims comprising stitch forming mechanism including a needle, an inclined throat plate extending about the needle and having an opening therein for said needle, a feeding device extending on one side of the needle and passing through the throat plate, a single presser foot element on the same side of the throat plate as the needle and on the same side of the needle as the feeding device and located at a distance from the needle to provide an intervening space between the two, and means for operating the several parts.

3. In a sewing machine, in combination, a frame and supporting arm, a needle bar mounted therein, a needle carried thereby, a throat plate inclining downwardly and outwardly from the frame and needle and curved from front to rear, said plate having an opening for the needle and above this opening on the incline, an opening for the feeding device, a feeding device passing through one of the openings in the throat plate and arranged to the side of the needle toward the arm of the frame and at a distance from the needle, and a presser foot cooperating with the feeding device and also arranged wholly to the same side of the needle as the feeding device and at a distance from said needle.

4. In a sewing machine, in combination, a frame and supporting arm, a needle bar mounted therein, a needle carried thereby, a throat plate inclining downwardly and outwardly from the frame and needle and curved from front to rear, said plate having an opening for the needle and an opening for feeding device, a feeding device passing through one of the openings in the throat plate and arranged to the side of the needle toward the arm of the frame and at a distance from said needle, and a presser foot cooperating with the feeding device and also arranged wholly to the same side of the needle as the feeding device and at a distance from said needle, said presser foot and feeding device having inclined faces corresponding to the inclination of the throat plate.

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

GEORGE P. COMEY.

Witnesses:

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