

P. RODIER.

Improvement in Corders for Sewing-Machines.

No. 131,027.

Patented Sep. 3, 1872.

FIG. 1

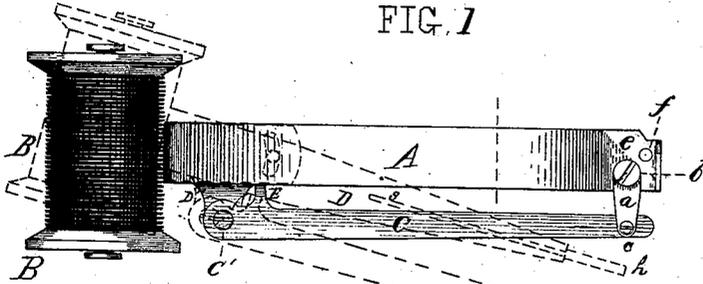


FIG. 2

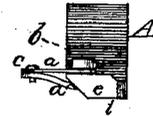


FIG. 4

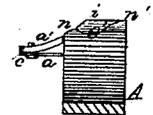


FIG. 3

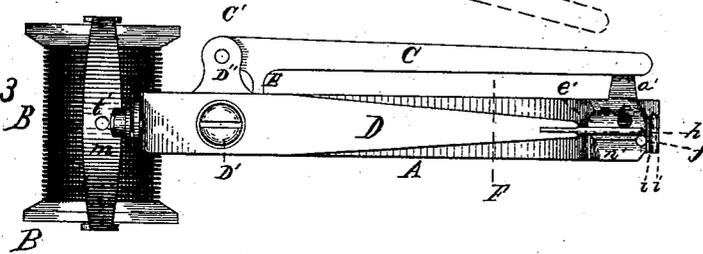


FIG. 5

FIG. 6

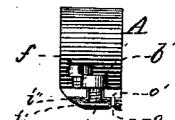
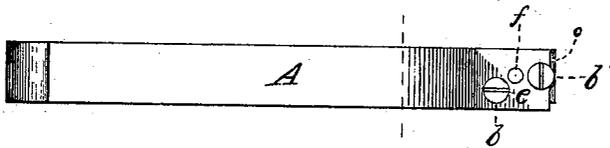


FIG. 7

FIG. 8

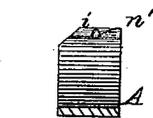
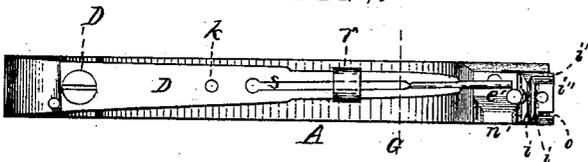
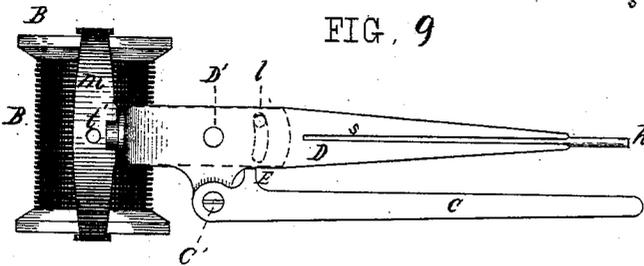


FIG. 9



Witnesses,

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P. RODIER.

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FIG. 10

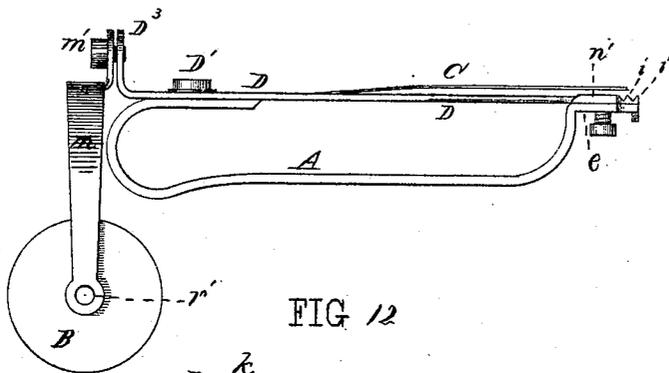


FIG. 12

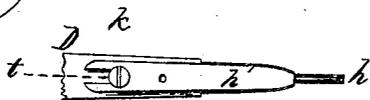


FIG. 11

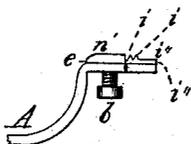
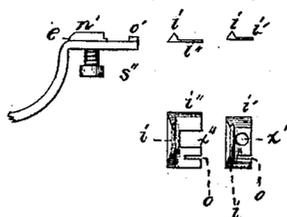


FIG. 13



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UNITED STATES PATENT OFFICE.

PETER RODIER, OF DETROIT, MICHIGAN.

IMPROVEMENT IN CORDERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 131,027, dated September 3, 1872.

To all whom it may concern:

Be it known that I, PETER RODIER, of the city of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improved Corder for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification and to the letters of reference marked thereon, in which—

Figure 1, Plate 1, is a plan view of my invention. Fig. 2, Plate 1, is an end view of the same. Fig. 3, Plate 1, is a reverse plan view of the same. Fig. 4, Plate 1, is a transverse section through line F. Fig. 5, Plate 1, is a plan view of another modification of my invention without the spool, showing adjustable flanges in the step. Fig. 6, Plate 1, is an end view of the same. Fig. 7, Plate 1, is a reverse plan view of the same, showing different modifications of the tongue. Fig. 8, Plate 1, is a transverse section through line G of Fig. 7. Fig. 9 is a plan view, showing the upper side of the tongue and spring-presser attached, shown in Figs. 1 and 3. Fig. 10, Plate 2, is a side view of the step having the permanent flanges thereon. Fig. 11, Plate 2, is a side view of the step having the adjustable flanges arranged thereon. Fig. 12, Plate 2, is a reverse plan view of the tongue and adjustable tube, shown in Fig. 7; and Fig. 13, Plate 2, is a side and end view of the step having the adjustable flanges, showing the details of construction.

My invention relates to a device to be attached to the presser-foot of a sewing-machine to facilitate the sewing of cord upon any fabric; and it consists of a bent arm, upon one end of which is made a step having a screw and spring upon the upper side by which to secure it to the presser-foot of the machine, the lower side of the step having thereon two flanges or sharp edges, forming a groove between, and the lower side having a recess therein, in which rests a tube attached to a swinging tongue, which is pivoted to the other end of the bent arm. The said tube and the needle-hole through the step both being upon the same side of the projection or part against which the feed presses the cloth in moving it along, whereby both thicknesses

of the cloth are acted upon by the feed at one and the same time, and after the cloth has been sewed, instead of before. The tongue is grooved, and has the tube inserted in the extreme end, and an attachment to hold a spool is secured to the other end. The tongue has also an ear made upon one side, to which is pivoted a spring-presser which swings horizontally upon its pivot. My invention also consists in the construction and arrangement of the step and flanges, whereby said flanges may be made adjustable, so that the inner one may be set at any desired distance from the end of the tube, and both flanges may be set any desired distance apart to make the groove between them variable in size.

That others skilled in the art may be able to make and use my invention, I will proceed to describe the same and its operation.

In the drawing, A represents the arm, bent somewhat in the form shown in Fig. 10, upon one end of which is made the step *e*, and in the lower side of this step is made a depression, *e'*, and at the end are made two flanges or sharp edges, *i i*. A brace, *a'*, is made upon one side of the step, to the outer end of which is secured a spring, *a*, and a set-screw, *b*, passes through the other end of the spring *a*, by means of which the device is secured to the presser-foot of the sewing-machine. To the other end of the bent arm A is pivoted, by means of the screw *D'*, the tongue D, upon one side of which is made an ear, *D''*, to which is pivoted the spring-presser C. This spring-presser is free to swing horizontally upon its pivot *C'*, and the presser is a little bent, so that the extreme end shall be about on the same plane or level with the blades or guides *i*. The spring-presser has a stop, E, made thereon, which strikes against the edge of the bent arm when the presser is brought toward the step *e*, thus serving to keep the presser always in exactly the same position when in use. The tongue D has a groove, *s*, upon the upper side, and the end of the tongue has a hole therein, into which the tube *h* is inserted, the hole through the tube coinciding or communicating with the said groove *s*; and the tube may be secured in the tongue either by the clasp *r*, slipped on over the tongue, pressing its two sides together against the tube, as shown in Fig. 7, Plate 1, or the tube may have

an elongated part, *h'*, extending along the tongue D, with a slot, *t*, through which passes a set-screw, *k*, as shown in Fig. 12, Plate 2. The tongue has also a projection, *l*, which operates in a curved slot made in the end of the bent arm A, shown in dotted lines in Fig. 9, to regulate the movement of the tongue A when moved to one side. The rear end of the tongue is bent to nearly a right angle with the line of the tongue, and to this end is secured, by the screw *m'*, a forked piece, *m*, holding a spool, upon which is wound the cord to be used. Fig. 13 shows the details of the adjustable flanges or guides, in which *i''* and *i'* show two pieces detached from the step *e*, and having the guides or flanges *i* made thereon. The step *e*, Fig. 5, has a slot made therein corresponding in size and position with the slot *x''* in the piece *i''*; and when all these pieces are in place the set-screw *s''* passes through the slot in the step, and the slot *x''* in the piece *i''* into the threaded hole *x'* in the piece *i'*. Said pieces *i''* and *i'* have also a slot, *o*, therein, through which protrudes a projection, *o'*, to keep said pieces properly in position, and the two guides *i* parallel and at right angles to the line of the tube *h*.

The operation of my invention is as follows: The device is secured to the presser-foot of the machine—to the "Florence machine"—by inserting the head of the set-screw *b* up through the opening in the presser-foot and turning the said screw in tightly, the spring *a* and brace *a'* serving to keep the device firm and in its proper position, with the spool toward the front of the cloth-plate, and the tongue D is swung outward, as shown in dotted lines in Fig. 1, in order to get the work in more readily. The cord upon the spool having its end inserted through the tube *h*, the end of the tube is placed under the fold of the cloth with the spring-presser upon the upper side of the fold. By this means the cord is deposited by the tube just where it is required, and as the cloth is moved along upon the cloth-plate the cord is stitched in by the needle and thread as fast as deposited.

When different rows of cord are required,

the first being sewed in, the next row is deposited close to the first; and in the operation of sewing in several rows of cord the last row finished passes along between the two guides or flanges *i*, and the whole number of rows are then deposited and sewed in with great regularity.

The distance between the rows may be increased or diminished by making the guides or flanges *i* adjustable, as hereinbefore described; for if the inner flange *i* be further from the end of the tube *h* the rows of cord will be sewed in further apart than when the inner flange *i* and tube are nearer to each other.

By means of the screw *m'* the spool may be adjusted to any desired position; and the spool may be also removed from the holder when it is empty and be refilled with cord without removing the device from the presser-foot of the machine; and by making the tube *h* movable in the tongue said tube may also be adjusted to any desired position, either nearer or more remote from the flanges *i*, by means of the clasp *r* or by the set-screw *k*.

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

1. The movable tongue D pivoted to the arm A, and having the groove *s* therein, and the tube *h*, when said tongue is arranged to move said tube away from beneath the step, substantially as and for the purpose described.

2. I claim the spring-screw guide *a* and brace *a'*, in combination with the set-screw *b* and presser-foot of the machine, substantially as herein set forth.

3. I claim, in connection with the tube *h* and step *e*, the spring-presser C pivoted to the tongue D, all constructed substantially as described.

4. I claim the detachable pieces *i''* and *i'*, having the flanges or guides *i* thereon, and secured to the step *e* by the screw *s''*, substantially as described.

PETER RODIER.

Witnesses:

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ARTHUR H. WINCHESTER.