

I. MANNING.

Sewing-Machine Attachments for Holding and Guiding Stays, &c.

No. 152,662.

Patented June 30, 1874.

Fig. 1.

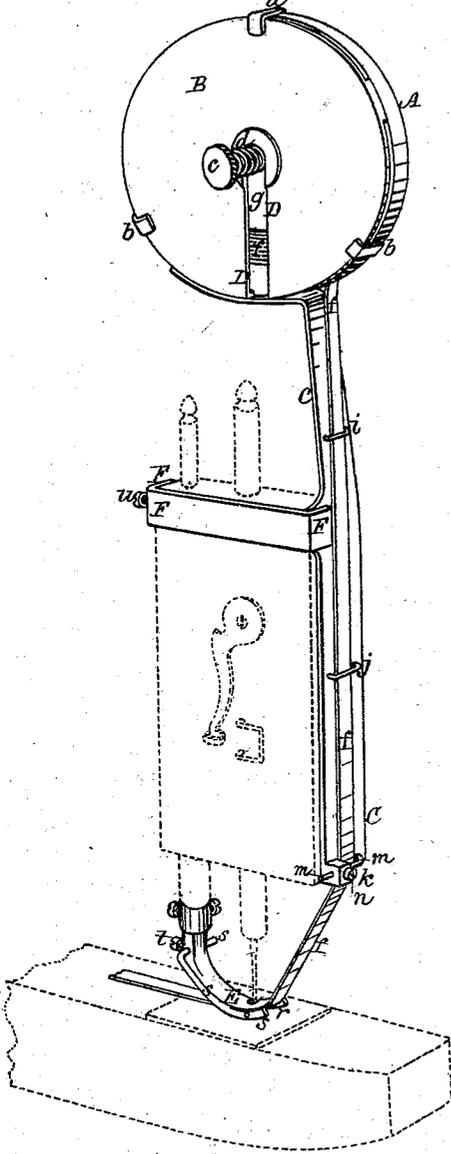


Fig. 2.

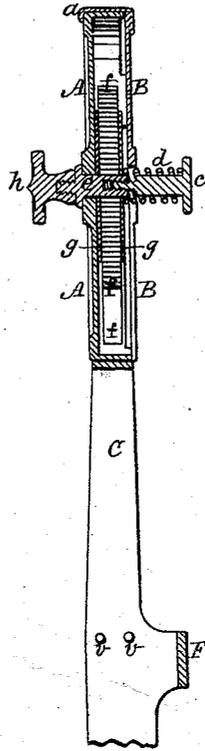
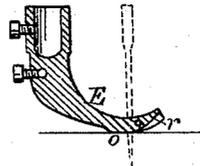


Fig. 3.



Witnesses.

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# UNITED STATES PATENT OFFICE.

IRA MANNING, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SEWING-MACHINE ATTACHMENTS FOR HOLDING AND GUIDING STAYS, &c.

Specification forming part of Letters Patent No. **152,662**, dated June 30, 1874; application filed June 12, 1874.

*To all whom it may concern:*

Be it known that I, IRA MANNING, of the city of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Sewing-Machine Attachment for Holding and Guiding Stays or Strips to be used for sewing boots or shoes; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 represents in perspective the stay or strip-holding mechanism, and so much of a sewing-machine as will illustrate its application thereto. Fig. 2 represents a transverse vertical section through the case or box in which the coil of stays or strips is held, and also showing the support by which the mechanism is connected to or with a sewing-machine. Fig. 3 represents a vertical section through the presser-foot, under which the stay or strip is guided to the sewing-point of the machine.

My invention consists in mechanism for holding, and guides for guiding, stays or strips to machines used in sewing boots and shoes, and other articles of leather where strips or stays are used for covering or strengthening seams.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The box or case for containing the coil of stays or strips is made in two parts, A B, of which A is the recessed part, and permanently united to the support C, by which the mechanism is united to the arm of a sewing-machine, as shown, and the part B is the cover, and so made as to be readily taken off and replaced when a coil of stays or strips is to be placed in the case. The cover B has a catch, *a*, fast upon it, which catch, when the cover is slid into its seat, takes over the part A, and thus holds the two parts together at their upper portions; and, as the cover comes to its seat, it slides into catches *b b* fast upon the part A, and so the two parts are held together at their under portions. The cover B has a slot, D, cut in it, so that it moves past or over the set-screw *c* or its spring *d*. Through the box or case, at its center, is passed a shaft or axis, *e*, upon which the coil of stays or strips *f* is placed, and upon each side of the coil there

is a disk, *g*, to keep the coil in place, and by which friction is applied to the coil to regulate its turning upon or with the axis *e*. A thumb-nut, *h*, is arranged upon one end of the axis or shaft, by which said shaft may be turned, to wind up the stay or strip onto the coil or into the box or case. Upon the opposite end of the shaft or axis *e* is the friction or pressure screw *c*, with its spring *d*, by which a regulated pressure is put upon the coil, to prevent it from turning too freely or paying out too fast. Near the bottom or under portion of the case or box there is a slot, through which the stay or strip *f* passes, and thence it goes through guides *i j* on the supporting-piece *c*, and thence through an adjustable guide, *k*, made so by the movable guide-piece *m* and set-screw *n*. From this point the stay or strip passes through a guide or groove in the under portion of the presser-foot E, which guide or groove runs out at or about the sewing-point, which point is represented by the needle in dotted lines. Behind the sewing-point, as at *o*, the presser-foot is plain-surfaced, while the guide or groove *r*, in front of the sewing-point, is formed in an upwardly-curved portion of said presser-foot. The guide at *k* is made adjustable, to accommodate strips or stays of different widths, and so, too, is the guide in the presser-foot, where one wall of the groove is shown as made on the presser-foot, and the other wall by a separate and adjustably-attached piece, *s*, which can be moved to or from the permanent wall, and then held by a set-screw, *t*. The guides *i j* are general in their action, but that at *k* and *r* are special, so as to prevent any lateral motion to the stay or strip, and guide it with great accuracy to the sewing point or line, as the stitching of stays or strips is ornamental as well as useful, and materially adds to the style and finish of the work. On the support *c* there is a hooked arm, F, which reaches around the arm of the sewing-machine, where it is held by a screw, *u*. There are also two studs or pins, *v*, on the support, which may take into holes in said arm, and thus this mechanism may be easily applied to, and used with, sewing-machines already built, and can be removed in a moment when the machine is required for other kinds of work, and when not required

for stitching on strips or stays, the latter may be wound up into the case or box by turning the thumb-knob *h*.

The presser-foot, constructed as herein described—viz, with a guide in its front turned-up end, and a plain or flat surface, as at *o*—admits of its being used for guiding and stitching stays, and also, as frequently happens, for stitching laterally from the stay around the top of the boot or shoe, to sew on the draw-straps or other work, in which a plain-surfaced presser-foot must be used. Two needles may be employed instead of one to sew parallel to each edge.

Having thus fully described my invention, what I claim is—

1. In combination with the case or box made in two parts, one of which is removable, and both held together as herein described, the shaft *e*, thumb-knob *h*, friction-screw *c*, and disks *g*, for receiving and holding a coil of stays or strips, *f*, as and for the purpose described.

2. In combination with a sewing-machine head and a reel, operating as herein described, the grooved presser-foot, with the adjustable side wall *s*, as and for the purpose described and represented.

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Witnesses:

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