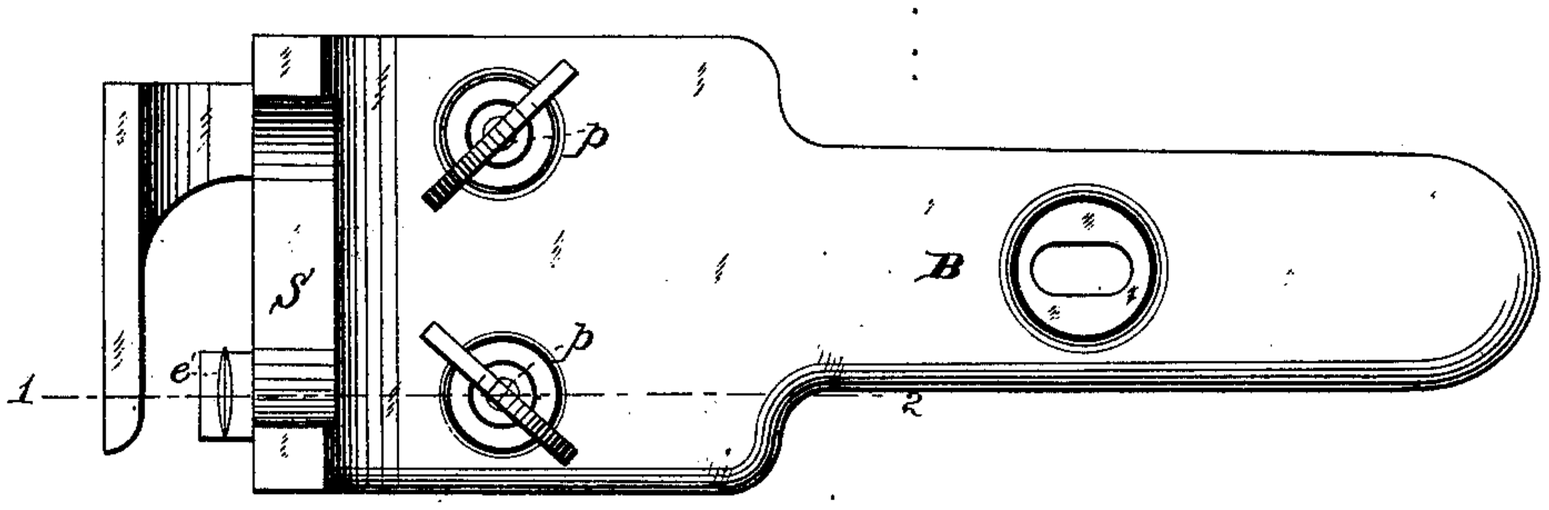
S. W. WARDWELL, Jr.

Sewing-Machine.

No. 220,197. Patented Sept. 30, 1879.

Fig. 1.



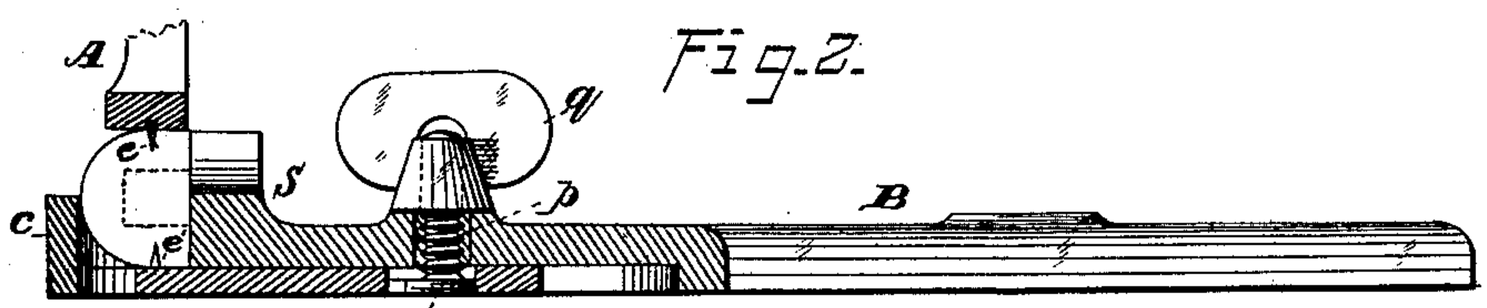


Fig. 2.

n

Fig. 3.

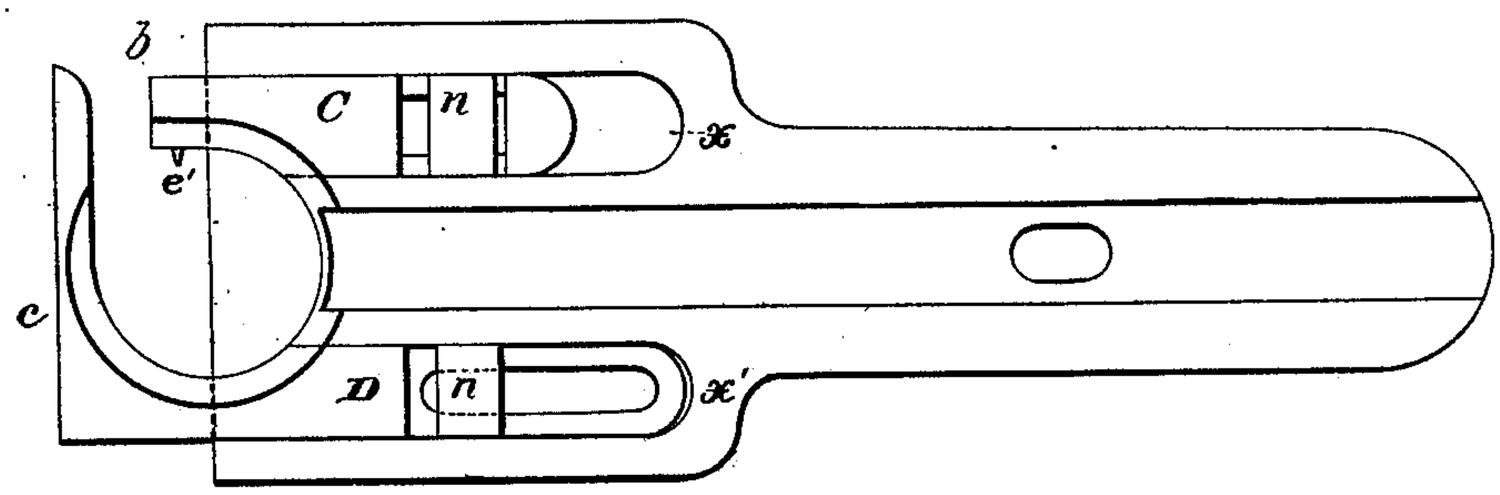
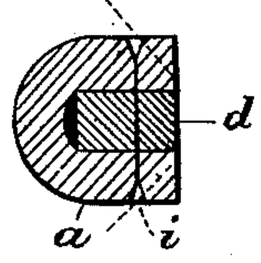
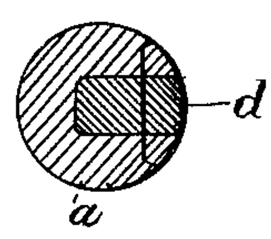


Fig. 4. Fig. 5.





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UNITED STATES PATENT OFFICE.

SIMON W. WARDWELL, JR., OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HAUTIN SEWING MACHINE COMPANY.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. **220,197**, dated September 30, 1879; application filed March 17, 1879.

To all whom it may concern:

Be it known that I, SIMON W. WARDWELL, Jr., of Providence, Providence county, State of Rhode Island, have invented certain Improvements in Sewing-Machines, of which the following is a specification.

The object of my invention is to facilitate the manufacture of reins and other round articles of leather; and my invention consists in the combination, in a sewing-machine, of knives and a gage, one knife being attached to the presser-foot, and the other and the gage being adjustable on the bed-plate, as hereinafter described.

In the drawings forming part of this specification, Figure 1 is a plan view, showing part of the attachment; Fig. 2, a section on the line 1 2, Fig. 1; Fig. 3, an inverted plan view of the device shown in Fig. 1; and Figs. 4 and 5, views illustrating the manufacture of round reins.

In the manufacture of round reins it has been common to double a strip, *a*, of leather around a core-strip, *d*, cut the outer strip by hand to form channels *i*, and then sew the strips together by stitches passing through the material and drawn into the channels within the outer surface of the leather, as shown in Fig. 4. After the sewing the edges of the strip *a* are chamfered off, as shown by dotted lines, Fig. 4, and the piece is then consolidated and rolled under pressure between flat surfaces, or otherwise rounded to the shape shown in Fig. 5.

To facilitate the construction and avoid manipulation, I use a detachable presser-foot, A, carrying a cutter, *e*, and a detachable plate, B, having grooves *x x'*, to receive and guide parallel bars C D, the former carrying a knife, *e'*, and the latter a gage, *c*, adapted to the rounded edge of the leather strip, as shown. Each bar is slotted to receive a clamp-plate, *n*, having a threaded stem, *p*, extending through the plate, and provided with a thumb-nut, *q*, so that the gage and knife-bar may be adjusted, and secured after adjustment.

The plate B is provided with an edge rib, *s*, and is secured adjustably by a thumb-screw or otherwise to the bed-plate of a sewing-machine, with its rib *s* at such a distance from the knife *e* as the nature of the work may require. The bar C is then adjusted to bring the knife *e'* in line with the knife *e*, and the bar D to bring the gage *c* in position to afford a bearing for the outer edge of the leather strip, when both bars are secured in position.

The attachment thus constructed is applicable to ordinary machines in use, and may be adjusted to sew reins of different sizes, and score the outer leather on both sides at any desired distance from both edges.

I claim—

1. The combination, in a sewing-machine, of a presser-foot carrying a knife, *e*, a plate, B, provided with adjustable bars C D, the former carrying the knife *e'*, and the latter a gage, *c*, and devices for securing the bars after adjustment, substantially as set forth.

2. The combination, in a sewing-machine, of the presser-foot carrying a knife, *e*, the ribbed plate B, adjustable on the bed-plate of the machine, the adjustable knife-carrying bar C, and adjustable gage-bar D, carried by said plate, and devices for securing the bars after adjustment, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SIMON W. WARDWELL, JR.

Witnesses:

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FRED H. BISHOP.