(No Model.)

C. H. PRIESTER & C. SCHÜTZ.

FELLING GUIDE FOR SEWING MACHINES.

No. 458,428. Patented Aug. 25, 1891.

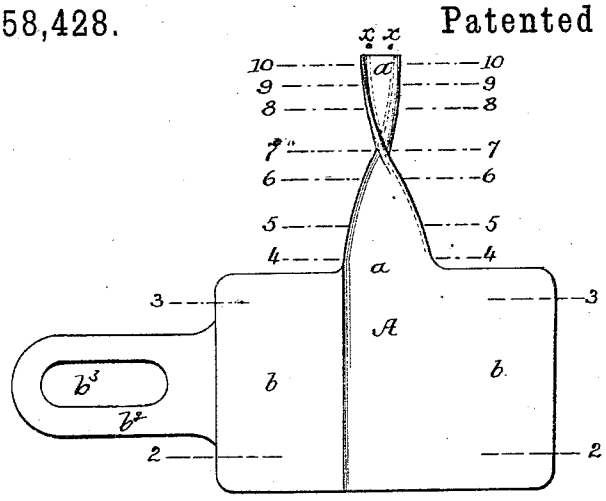


FIG. 1.

FIG. 2.

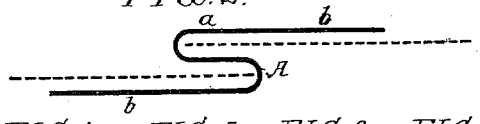


FIG. 3

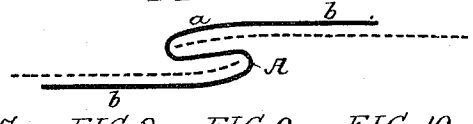


FIG. 4. FIG. 5. FIG. 6. FIG. 7. FIG. 8. FIG. 9. FIG. 10.



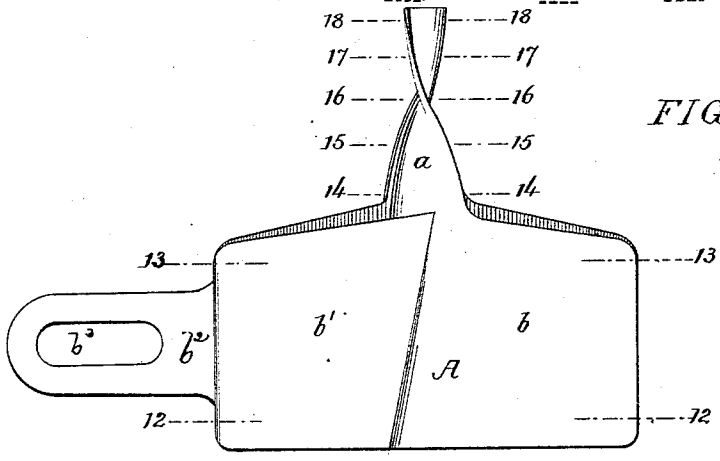


FIG. 11.

FIG. 12.

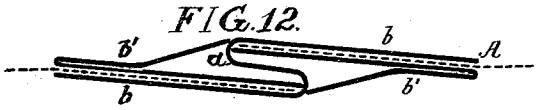


FIG. 13.

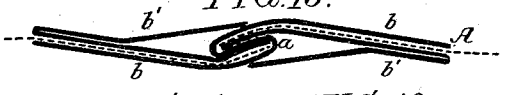
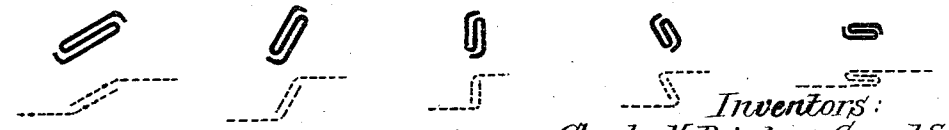


FIG. 14. FIG. 15. FIG. 16. FIG. 17. FIG. 18



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES H. PRIESTER AND CONRAD SCHÜTZ, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNORS, BY DIRECT AND MESNE ASSIGNMENTS, TO THE B. P. S. SEWING MACHINE COMPANY, OF SAME PLACE.

FELLING-GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 458,428, dated August 25, 1891.

Application filed March 10, 1890. Renewed February 3, 1891. Serial No. 379,973. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. PRIESTER and CONRAD SCHÜTZ, both citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented certain Improvements in Feller-Guides for Sewing-Machines, of which the following is a specification.

One object of our invention is to so construct a felling-guide for sewing-machines that the edges of the fabric which are to be felled and united may be fed into the guide perfectly straight—that is to say, without any preliminary folding, partial folding, or other manipulation—the folding and interlocking of the edges of the fabric being effected wholly by reason of the peculiar conformation of the guide.

A further object of the invention is to simplify and cheapen the construction of the device.

These objects we attain in the manner herein set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a felling-guide for sewing-machines constructed in accordance with our invention. Figs. 2, 3, 4, 5, 6, 7, 8, 9, and 10 are transverse sectional views of the same on the correspondingly-numbered lines of Fig. 1. Fig. 11 is a plan view of another form of felling-guide constructed in accordance with our invention; and Figs. 12, 13, 14, 15, 16, 17, and 18 are transverse sections of the same on the correspondingly-numbered lines of Fig. 11.

The guide shown in Fig. 1 consists of a single plate A of sheet metal contracted in width at the front end, so as to form a projecting finger *a*, the widened rear portion forming laterally-projecting guide-fingers *b b*, one of which is preferably extended, as at b^2, and is slotted, as at b^3, for the reception of a set-screw, whereby it is secured to the work-plate of the machine. The central portion of the plate is bent into **S** shape, as shown in Fig. 2, so as to provide two guides, one above the other, these guides being horizontal at the receiving end of the device, and the upper guide serving as a bearing for the edge of the upper layer of fabric, while the lower guide constitutes a bearing for the edge of the lower layer, the **S** shape of the central portion of the guide permitting these edges to overlap to the desired extent and the horizontal character of the guides permitting the fabric to enter the same without any bending or manipulation. The **S** form of the central portion of the guide is continued throughout the entire length of the finger *a;* but said finger is twisted to the extent of a half-turn in its length, so that as the fabric is fed forward through the finger the edge of the upper layer of fabric will be turned downward and inward and the edge of the lower layer will be turned upward and inward. Hence the two edges will be caused to interlock before they issue from the guide and pass to the needle or needles whereby the seam is formed.

In Fig. 1 we have shown at *x x* the relation of the needles of the machine to the delivery end of the finger *a* when the attachment is used in connection with a double-needle machine. When the attachment is used on a single-needle machine, the needle will occupy a position about midway of the points *x x*.

In some cases where it is desired to brace the wings *b* and to more closely confine the two layers of fabric where they enter the guide, said wings *b* of the plate may be combined with separate plates *b' b'*, soldered or otherwise secured in position, as shown in Figs. 11, 12, and 13, the construction of the guide there shown being in other respects substantially similar to that of Fig. 1.

Having thus described our invention, we claim and desire to secure by Letters Patent—

1. The within-described felling-guide for sewing-machines, the same consisting of a plate having an **S**-shaped guide forming at the receiving end straight grooves one above the other, but having a projecting finger twisted to the extent of a half-turn, whereby the folding and interlocking of the edges of the fabric is effected, substantially as specified.

2. A felling-guide for sewing-machines, consisting of a plate having a central projecting finger contracted in width and laterally-projecting wings at the rear of the same, the central portion of the plate being bent into **S** shape and forming at the entrance end grooves or passages one above the other, the project-

ing finger being twisted to the extent of a half-turn in its length, substantially as specified.

3. The combination of the **S**-shaped guide, with projecting twisted finger and laterally-projecting wings, and the brace-plates for said wings, forming passages of contracted width for the fabric, substantially as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

CHAS. H. PRIESTER.
CONRAD SCHÜTZ.

Witnesses:
WM. D. CONNER,
HARRY SMITH.