

No. 778,367.

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A. LAUBSCHER.

HEMSTITCH ATTACHMENT FOR SEWING MACHINES.

APPLICATION FILED APR. 29, 1904.

Fig. 1.

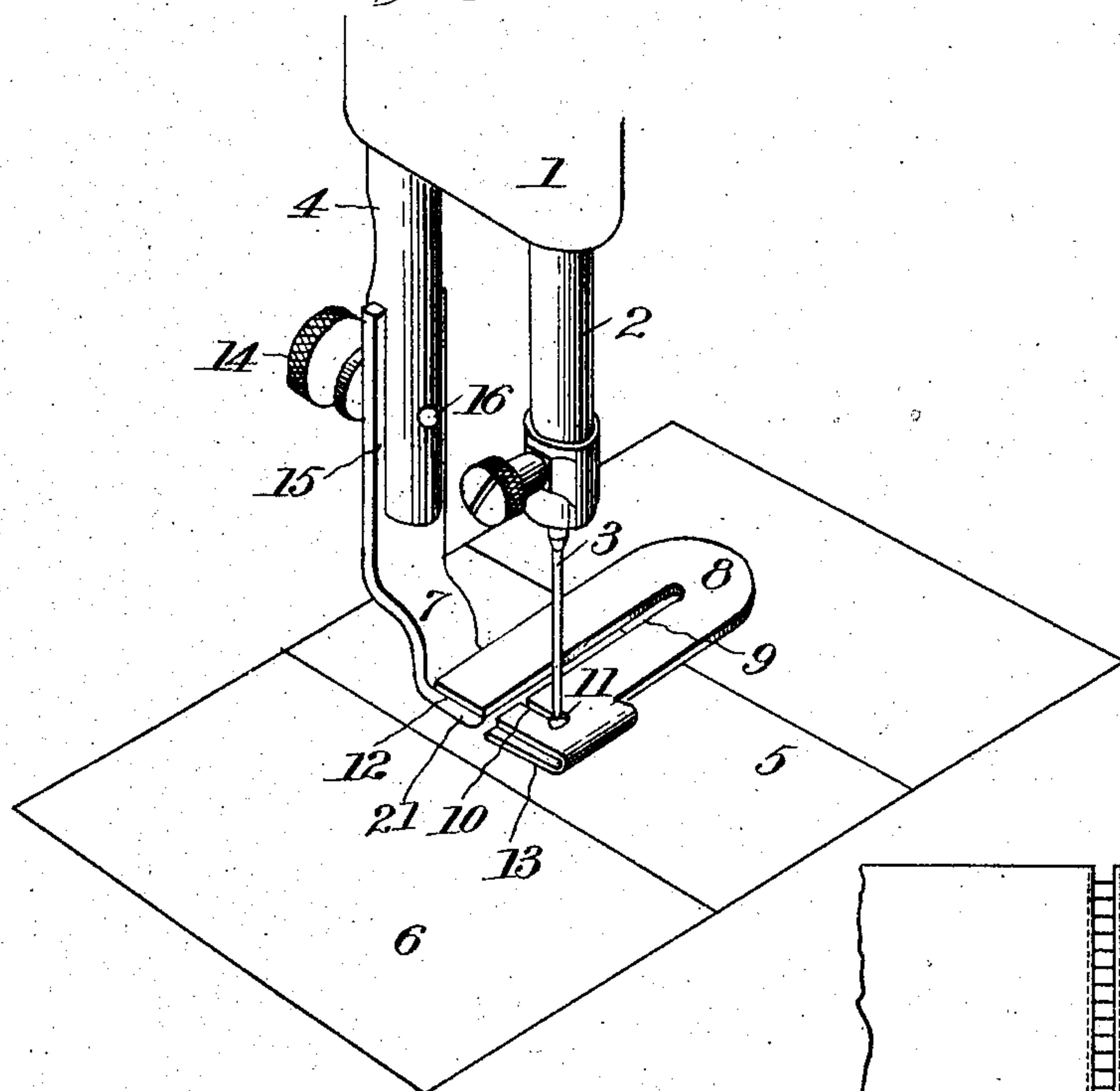


Fig. 3.

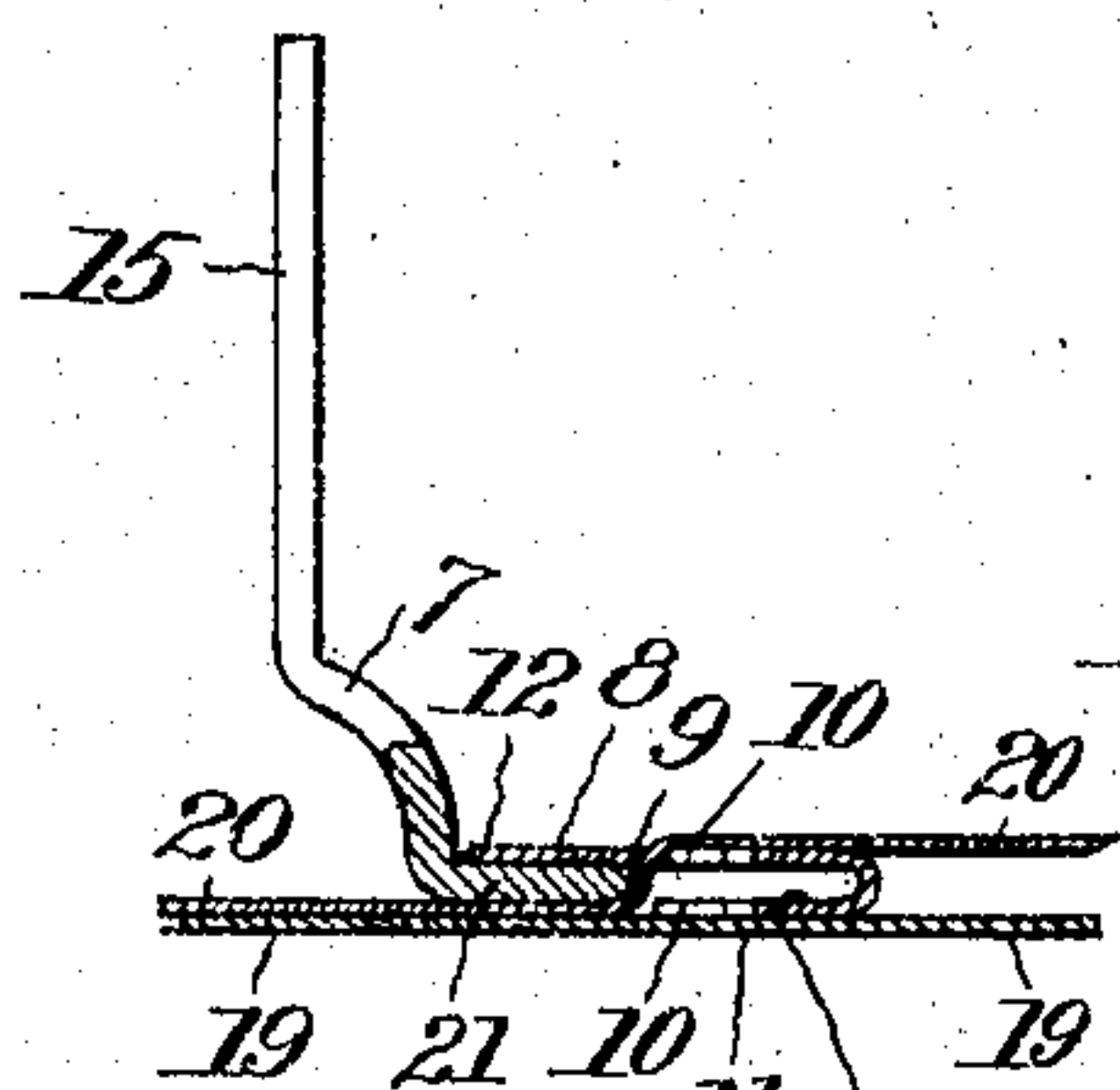


Fig. 2.

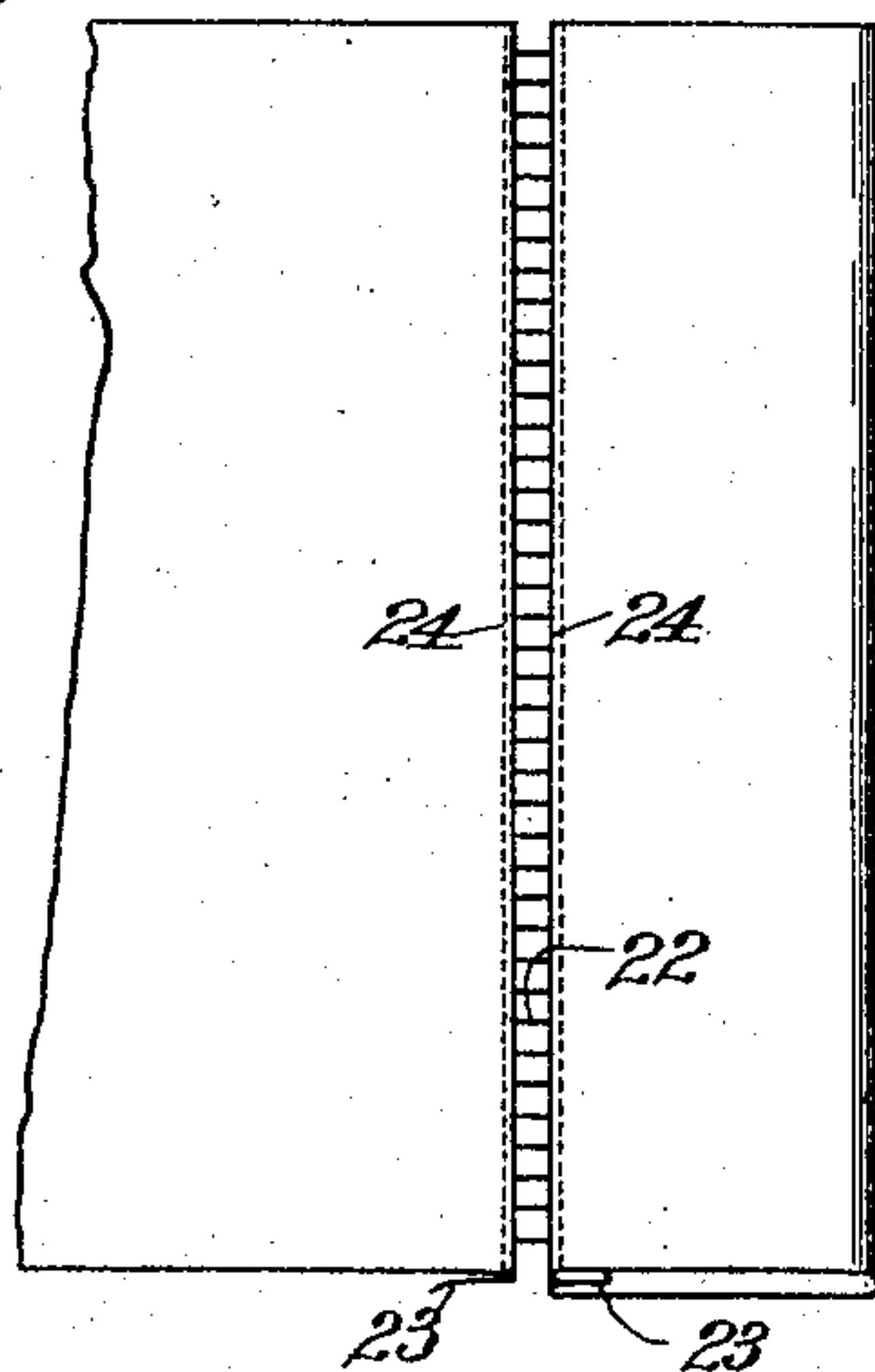
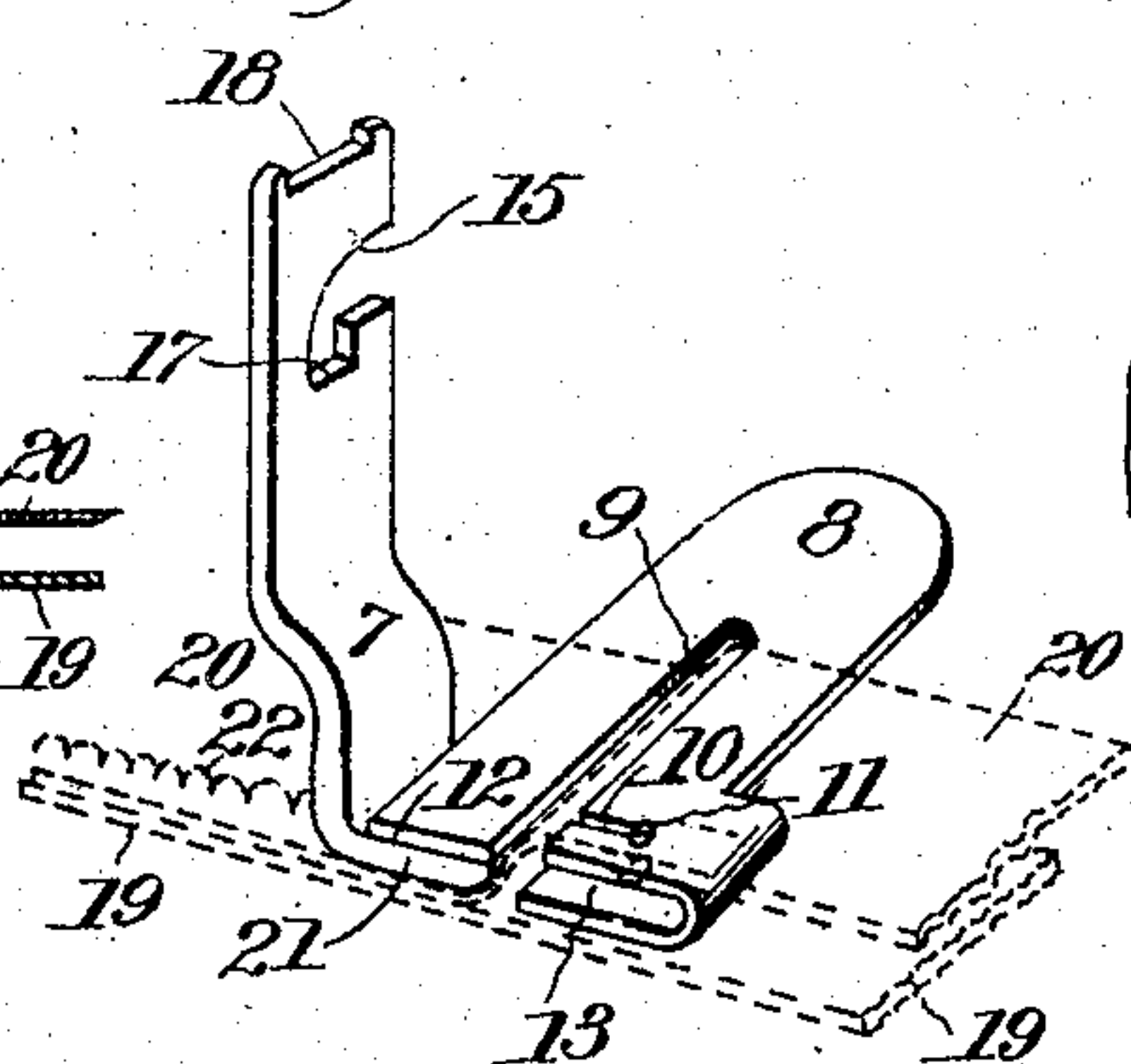


Fig. 4.

WITNESSES:

C. M. Walker,
Ada C. Briggs.

INVENTOR

Alexander Laubscher

BY

M. J. Finckel
ATTORNEY

UNITED STATES PATENT OFFICE.

ALEXANDER LAUBSCHER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO
WHEELER & WILSON MANUFACTURING COMPANY, OF BRIDGEPORT,
CONNECTICUT, A CORPORATION OF CONNECTICUT.

HEMSTITCH ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 778,367, dated December 27, 1904.

Application filed April 29, 1904. Serial No. 205,545.

To all whom it may concern:

Be it known that I, ALEXANDER LAUBSCHER, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Improvement in Hemstitch Attachments for Sewing-Machines, of which the following is a full, clear, and exact description.

The object of this invention is to provide a simple and efficient attachment for domestic sewing-machines for hemstitch or open-seam work.

The invention comprises a presser-foot for separating the plies of material to be hemstitched provided with means for varying the width of the hemstitch or open-work seam, as will now be described and finally claimed.

In the accompanying drawings, illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a perspective view showing the attachment in position on parts of a sewing-machine. Fig. 2 is a perspective view of the presser-foot with the material in dotted lines, illustrating how the material is passed over and under the presser-foot in operation. Fig. 3 is a section taken on the line of the needle-hole, Fig. 2, with the material in place. Fig. 4 is a plan view illustrating the completed seam.

In the drawings only so much of the sewing-machine is shown as is necessary for a proper understanding of the invention.

1 is a portion of the overhanging arm, 2 the needle-bar, 3 the needle, 4 the presser-bar, 5 the throat-plate, and 6 the front slide plate, all of which may be as illustrated or of any approved construction.

7 is the presser-foot, to which is attached a plate 8, provided with a slit 9 for the passage of the material, and at right angles to the slit 9 is a slit 10, extending from the needle-hole 11 into the longer slit 9.

At 12 the plate 8 is soldered to the presser-foot 7; but it will be understood that the parts 7 and 8 might be constructed as a single piece or made in separate pieces secured together in any suitable manner.

The plate 8 at its free end is folded under,

as at 13, to provide adjustment for varying the width of the hemstitch or open-work seam. The plate 8 is preferably made of sheet metal, so as to make it convenient to vary the vertical height between the upper and lower members, dependent upon the width of the seam required. By a comparison of Figs. 1 and 2 it will be seen that in Fig. 1 the U-shaped space is narrower than that shown in Fig. 2, and such relative adjustment of the members of plate 8 is effected by deflecting the portion 13 from the upper portion of plate 8 by the employment of any suitable instrument, as a screw-driver for opening and pliers for closing such portion.

The attachment is adjustably secured to the presser-bar 4 by the thumb-screw 14, the threaded portion of which passes through a suitable hole in the slotted portion 15 of the presser-bar and is threaded into the opposite portion 16. The upright portion of the presser-foot is provided with a notch 17 and a recessed portion 18, the notch 17 being in width somewhat greater than the body of the screw 14 and the latter somewhat longer than the diameter of the presser-bar 4, so that the lateral adjustment of the attachment may be effected and the needle-hole 11 may be adjusted to the vertical action of the needle 3.

From the foregoing it will be understood that the construction of the hemstitch attachment permits the lower ply 19 of the material to be placed between the attachment and the throat-plate, so that the hemstitch or open-work seam may be located at any desired distance from the edge of the material, the distance of the seam from the edge of the upper ply 20 (see Fig. 2) being governed by the length of the slit 9 and the extent of the open-work of the seam being governed by the height of the U-shaped portion, or, in other words, the distance which the folded member 13 is apart from the upper member.

The operation of the device is as follows: The under ply 19 is placed under the presser-foot between the attachment and the throat-plate, as is common in hemstitch attachments generally. The upper ply 20 is placed over

the U-shaped portion of the plate 8 through the slit 9 and under the portion 21 of the presser-foot 7, and as the material is fed forward by the usual feed-dog (not shown) the
5 stitch is formed through the plies of a length equal to the height of the U-shaped portion, thus effecting the stitch 22. After the completion of the hemstitch or open-work the edges 23 are turned back and stitched down
10 in the ordinary manner by the seams 24.

What I claim is—

1. A hemstitch attachment for sewing-machines, comprising a presser-foot, a plate attached thereto and having a longitudinal slit,
15 said plate fixed to the presser-foot at one side of the slit and free at its other side and having said free side folded under in U shape in cross-section and provided with a needle-hole and a slit connecting the needle-hole and longitudinal slit.
20

2. A hemstitch or open-work attachment for sewing-machines, comprising a presser-foot, a plate attached to the outer end thereof, extending longitudinally at right angles thereto, having a lengthwise slit therein which
25 separates a free end or side from that portion attached to the presser-foot, and provided with an underturned fold on said free end capable of being moved toward and from the upper portion to vary the distance between
30 the fold and upper portion and thereby effect hemstitch or open-work seams of different widths, and said fold having a needle-hole connected by a slit with the lengthwise slit.

In testimony whereof I have hereunto set
35 my hand this 27th day of April, A. D. 1904.

ALEXANDER LAUBSCHER.

Witnesses:

F. W. OSTROM,

ABBIE M. DONIHUE.