(Model.)

F. LEISS.

BRAIDING ATTACHMENT FOR SEWING MACHINES.

No. 297,817. Patented Apr. 29, 1884.

Fig. 1.

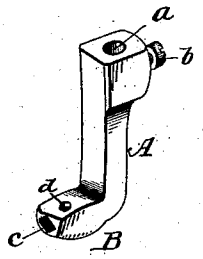


Fig. 2

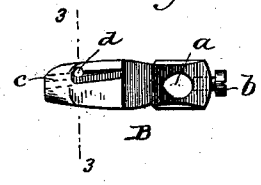
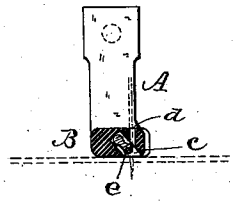


Fig. 3.



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UNITED STATES PATENT OFFICE.

FREDERICK LEISS, OF NEW YORK, N. Y.

BRAIDING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 297,817, dated April 29, 1884.

Application filed August 31, 1883. (Model.)

To all whom it may concern:

Be it known that I, FREDERICK LEISS, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Braiding Attachments for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is the production of a braiding attachment of such construction as will admit of the presentation of a braid of unequal diameters to the needle of a sewing-machine in an inclined position, so that the needle, in sewing the braid to the fabric to be ornamented thereby, will penetrate the edge of the braid diagonally to its longer axis. When the braid has thus been presented to the needle and the stitches have been properly tightened, the tension of the sewing-thread on the braid will cause the latter to stand up edgewise, or nearly so, on the fabric to be ornamented, producing what is known as "raised braiding," the ornamental effect of which is very pleasing.

My invention is carried into effect by means of a sewing-machine presser-foot of peculiar construction, illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my device. Fig. 2 is a bottom plan view of the same, and Fig. 3 an elevation, partly in section, on line 3 3, Fig. 2.

A indicates the shank of the presser-foot, provided with an aperture, *a*, by which it is adapted to be detachably secured to the presser-bar of a sewing-machine by a set-screw, *b*, in a well-known manner. The foot portion B of the presser-foot is provided with a horizontal braid-guiding passage, *c*, of unequal diameters extending longitudinally thereof, or in the direction of the movement of the work, the plane of the longer diameter of the said passage being inclined relative to a vertical plane, in which latter the needle of the machine moves. The braid-guiding passage is open on the bottom of the presser-foot, rearward of the vertical needle-hole *d*, the latter being placed at the side of and intersecting the guiding-passage, so that the needle in descending will penetrate only the edge of the passing braid. The guiding-passage is preferably inclosed on the bottom of the presser-foot in front of the needle, so as to hold the braid steadily and positively.

The operation of my device is as follows: When the attachment is properly secured to the presser-bar of a sewing-machine, with the fabric to be ornamented beneath the presser-foot, the braid *e* will be introduced into the inclined guiding-passage *c*, and the needle (indicated by dotted lines in Fig. 3) will pass through the edge of the inclined braid, causing the latter, when the stitches have been properly tightened, to stand up edgewise on the fabric, thus producing the raised braiding heretofore referred to.

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

A sewing-machine braiding attachment, consisting of a presser-foot having a braid-guiding passage of unequal diameters extending longitudinally thereof, the plane of the longer diameter of said passage being inclined relative to a vertical plane, said foot having also a needle-hole arranged at the side of and intersecting said braid-guiding passage, substantially as set forth.

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