March 22, 1927. 1,622,171

D. L. ANTHONY

BRAIDER ATTACHMENT FOR SEWING MACHINES

Filed July 6, 1925

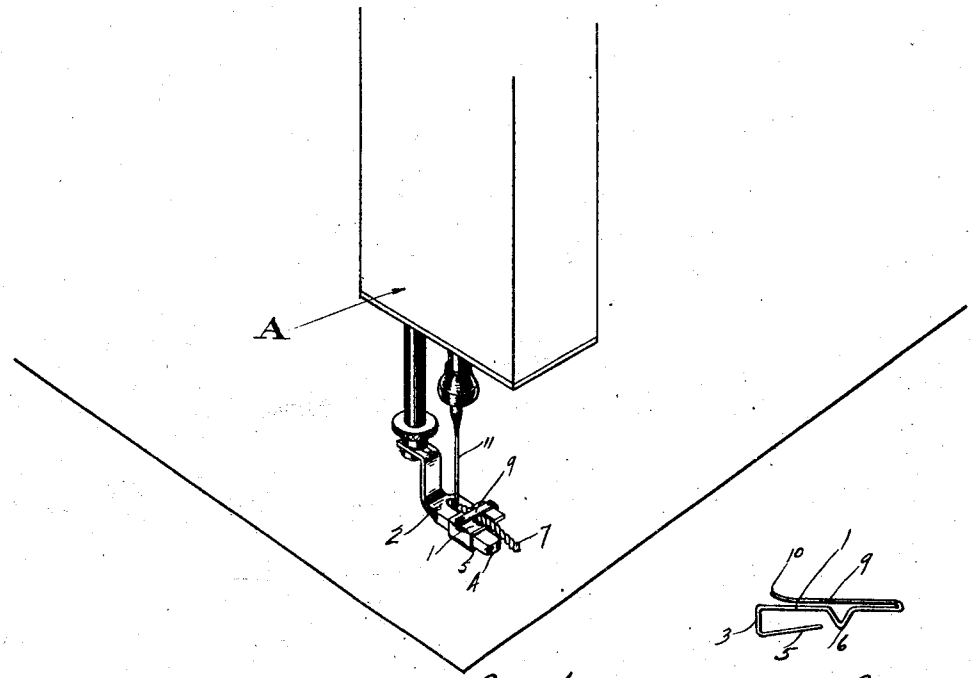


Fig. 1

Fig. 6

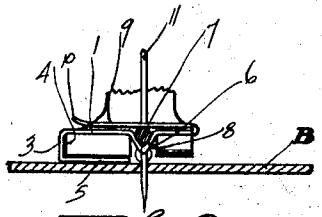


Fig. 2

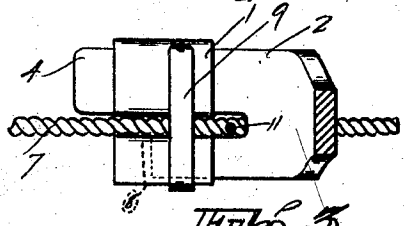


Fig. 3

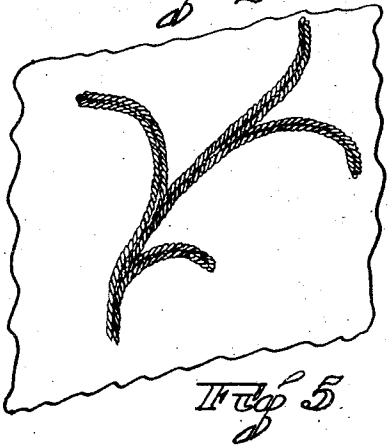


Fig. 5

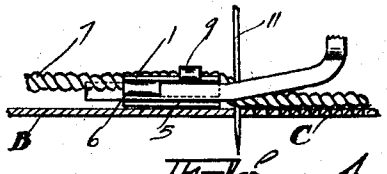


Fig. 4

INVENTOR
D. L. ANTHONY

BY Chas. J. Thum
ATTY.

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UNITED STATES PATENT OFFICE.

DANIEL L. ANTHONY, OF EL PASO, TEXAS, ASSIGNOR OF ONE-HALF TO HENRY E. COTTMAN AND ONE-HALF TO EVOR P. MORGAN, BOTH OF EL PASO, TEXAS.

BRAIDER ATTACHMENT FOR SEWING MACHINES.

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This invention resides in the provision of a simple and inexpensive device which is adapted to be attached to a sewing machine and which operates to hold braid, embroidery thread, ribbon or the like, in position to be sewed onto a piece of cloth in order that embroidery and like effects may be produced in fanciful forms and figures.

The attachment of the invention comprises a small guide and holder which is constructed so that it may be readily fitted upon the presser foot of a sewing machine and will permit of the feeding of embroidery thread or the like in such manner that the said thread may be stitched or sewed onto a piece of cloth in a rapid and effective manner to produce various fanciful designs and figures simulating embroidery work.

Another object of the invention is to provide an attachment of the character described which is formed of a single piece of sheet metal and bent to form an effective clamp and a guiding and holding means, which latter will permit of a positioning and feeding of embroidery thread or the like without any possibility of entanglement or jamming of the thread or in anyway interrupting the continuous operation of sewing the thread or the like on a piece of cloth.

With the above mentioned and other objects in view, the invention consists in the novel construction and combination of parts hereinafter described, illustrated in the accompanying drawing, and set forth in the claim hereto appended, it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claim may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Referring to the drawing:

Fig. 1 represents a perspective view of a part of a sewing machine showing the braider attachment of my invention applied to the presser foot thereof.

Fig. 2 represents a front elevation of the device as it would appear when mounted on the presser foot.

Fig. 3 represents a top plan view of the attachment mounted in position on the presser foot.

Fig. 4 represents a side elevation of the attachment showing a part of the presser foot on which it is mounted and showing a part of the embroidery thread sewed onto the cloth which latter is shown in section.

Fig. 5 represents a top plan view of a piece of cloth having a fanciful design formed of embroidery thread sewed on with the attachment of this invention.

Fig. 6 is a front elevation of the attachment removed from the sewing machine.

The embodiment of this invention shown in the accompanying drawing is made of a single piece of thin resilient metal comprising a substantially rectangular body portion 1 of a width equal to that of the presser foot 2 of a sewing machine A, but part of which latter is shown. This body portion is provided along one edge with a downwardly extending flange or projection 3 which is adapted to extend along one side or edge 4 of the presser foot and on its lower end carries a laterally extended clamping portion 5 adapted to engage the under side of the presser foot. This portion 5 converges towards the center of the body 1 so that it is forced away from the body 1 when slipped on the presser foot and will thereby clamp against the presser foot to hold the attachment in place. Extending across the body portion 1, transversely thereof, is a guide groove 6 for the embroidery thread 7. This groove is formed by depressing the metal of the body 1 and defines a rib 8 which lies in the slot of the presser foot between the extremities of said presser foot so as to assist in holding the attachment in place. To yieldingly hold the thread 7 in the groove, a spring retaining tongue 9 is extended from one end of the plate 1 and bent back to lie over the top of the plate across the groove 6. The free end of said tongue 9, being up-turned as at 10 to permit of slipping of the cord sidewise into the groove, where it is slidably held therein by said tongue.

The attachment is put on the presser foot in such manner that the inner edge thereof is spaced from the inner end of the slot or bifurcation in the presser foot and therefore does not interfere with the free movement of the needle 11 through the bifurcation of the presser foot. With the thread in place, on the placing of the piece of cloth as shown at B, beneath the presser foot and operating the machine in the ordinary manner, the ma-

chine will stitch along the center of and through the embroidery thread and sew it to the cloth as shown at C, Fig. 4. By moving the cloth during this operation, various forms or designs may be made, the cord 7 being fed through and guided by the attachment of the invention. With this simple and inexpensive attachment no particular skill is required to make various fanciful "embroidery" figures or to apply braid to material, it being possible to use ribbon or braid instead of the embroidery thread. The construction of the attachment is such as to insure a simple and reliable operation in sewing thread or tape onto cloth, there being no jamming of the thread or other interfering with the operation of the machine. The guide groove 6 in being formed so as to define a rib 8 not only serves as an effective means for guiding and holding the thread in proper position to be sewed in place, but due to the engagement of the rib 8 in the space between the extremities of the presser foot, further assists in holding the attachment firmly in place on the presser foot. This, together with the clamping member 5 engaging beneath one side of the presser foot insures the holding of the attachment in proper position. The comparatively thin integral clamping tongue 9 holds the thread against moving out of the guide groove 6 but permits of a free feeding of the thread through the groove and further facilitates the placing of the thread from the side into the groove of the attachment so that it may be moved into proper position.

I claim:

A braider attachment for sewing machines comprising a thin metal body portion adapted to be placed on top of the presser foot of a sewing machine and having a groove extending across the upper side thereof, which groove defines a rib on the under side of the body, which rib is adapted to engage in the bifurcation provided between the extremities of the presser foot, a downwardly extending flange on one edge of the body portion adapted to engage one side of the presser foot, a laterally extending clamping jaw at the lower end of the flange yieldingly engaging the lower side of the presser foot and a narrow spring tongue formed integral with the body portion on the end thereof opposite that carrying the flange, which tongue is bent downward to lie on top of the body portion and extends across said groove.

DANIEL L. ANTHONY.