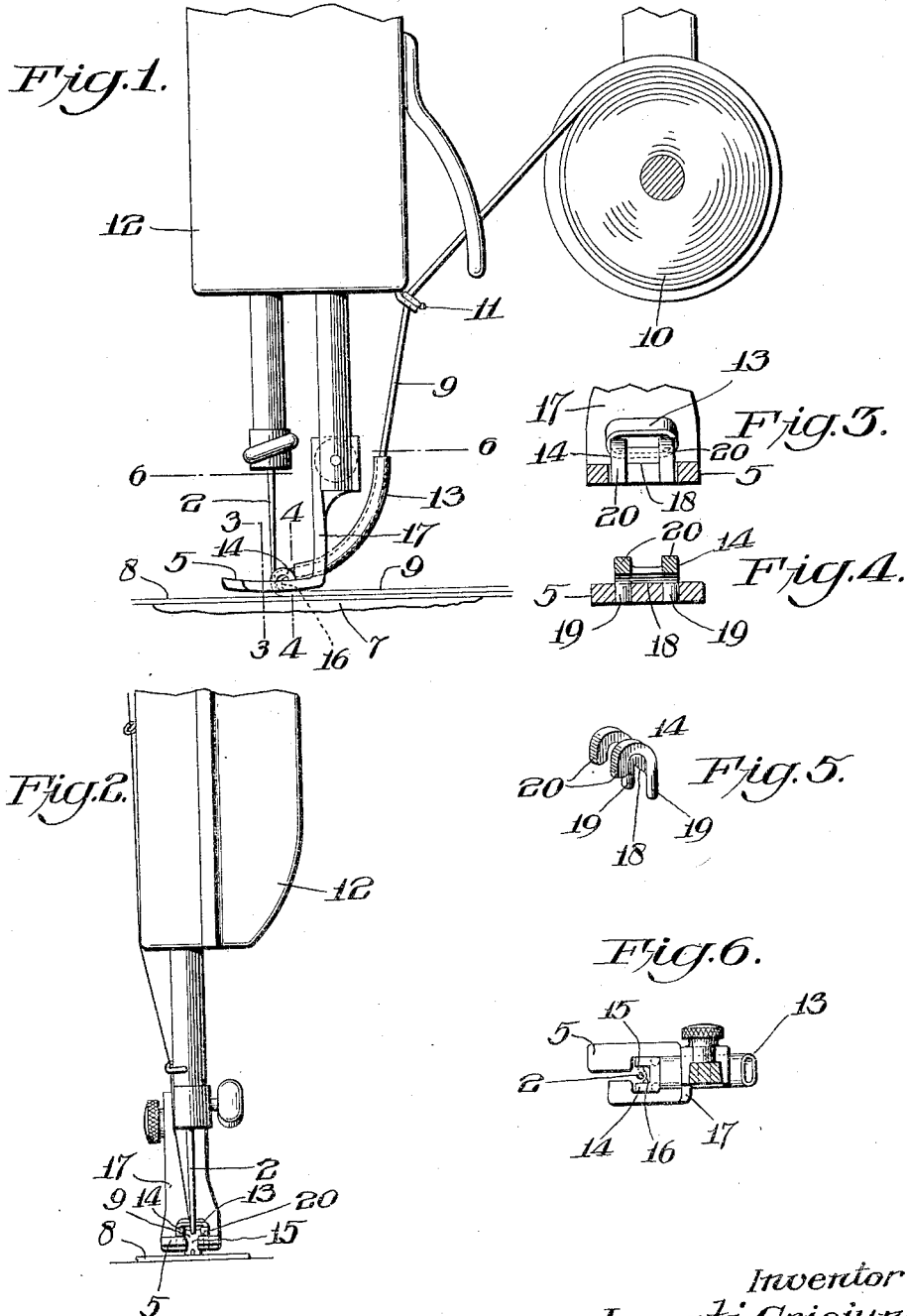


I. GRICIUNAS.
BRAID GUIDING DEVICE FOR SEWING MACHINES.
APPLICATION FILED OCT. 13, 1920.

1,410,178.

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UNITED STATES PATENT OFFICE.

IGNATI GRICIUNAS, OF PHILADELPHIA, PENNSYLVANIA.

BRAID-GUIDING DEVICE FOR SEWING MACHINES.

1,410,178.

Specification of Letters Patent. Patented Mar. 21, 1922.

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To all whom it may concern:

Be it known that I, IGNATI GRICIUNAS, a citizen of the United States of America, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Braid-Guiding Devices for Sewing Machines, of which the following is a specification.

This invention relates to improvements in braid guiding means for sewing machines.

The object of the invention is to provide a braid guiding means of novel, simple and efficient construction whereby braid may be guided to the sewing needle of a sewing machine and to the face of the fabric to which the braid is to be sewed in such a manner that the needle will enter and leave the braid at and from the same face thereof and not penetrating the braid to the opposite face thereof during the sewing operation, resulting in sewing the braid to the fabric by blind stitches which do not appear upon the exposed face of the braid after it has been sewed to the fabric.

The invention includes a novel braid guiding device which may be readily applied to and removed from the presser foot of a sewing machine, so that any one of a number of devices constructed to guide braids of different widths may be applied to the presser foot.

By the aid of my invention any color or quality of thread may be employed in sewing braid to fabric without having the sewing thread appear upon the exposed face of the braid sewed to the fabric to mar or disfigure the color or texture of the braid, resulting not only in a product which is cheaper to manufacture, but also in one which has a much finer and more desirable appearance due to the absence of stitches on the exposed face of the braid.

The invention consists in the novel construction, combination and arrangement of parts hereinafter described and claimed.

In the accompanying drawings, illustrating my invention,

Figure 1 is a side elevation of a portion of a sewing machine provided with a braid guiding device embodying my invention.

Figure 2 is a front view of the part shown in Fig. 1.

Figures 3 and 4 are sectional details, on lines 3—3 and 4—4, respectively, of Fig. 1, of the presser foot and parts carried thereby.

Figure 5 is a perspective view of one of the braid guiding devices.

Figure 6 is a horizontal section, on line 6—6 of Fig. 1.

Referring to the drawings, 2 designates the sewing needle of an ordinary sewing machine which may be of any suitable construction, 5 designates the presser foot of the machine, and 7 the floor or support thereof over which the fabric or work to be sewed is advanced beneath the needle 2 and presser foot 5 during the sewing operation which is performed in the usual manner well known to persons skilled in this art.

8 designates a piece of cloth upon the support 7 and 9 a strip of braid fed to the needle 2 and cloth 8 to be sewed to the face of the latter. The braid 9 is drawn from a reel or spool 10 which may be suitably supported in any convenient position. The braid passes from the spool 10 through a guiding eye 11 on the sewing machine frame 12, thence down through a curved and flattened tube 13 over the top of the presser foot 5 to a braid guiding device 14, and down through the needle opening 15 in the presser foot 5, and around the edge 16 forming the back of the needle opening 15, and then back beneath the presser foot 5 and over the fabric 8, in the direction of the travel thereof, during the sewing operation.

As the braid passes around the edge 16, it passes down through the path of the point of the needle 2 and in such relation thereto that, as the needle 2 is reciprocated, it enters and leaves the braid 9 at and from the same face thereof and does not penetrate to the opposite face thereof. It will be understood, therefore, that the braid 9 will be sewed to the fabric 8 as it meets the same and passes through the needle path and beneath the presser foot, and that the stitches passing through the braid will not appear upon the upper or exposed face thereof.

The braid guiding tube 13 penetrates the vertical limb 17 of the presser foot 5, as shown in the drawings, and it is secured thereto by soldering or any suitable means; and the tube 13 is wide enough to accommodate the widest braid desired, and to guide it or narrower braid to the guiding device 14.

The guiding device 14 is removable from the presser foot 5 so that different devices may be substituted therefor, each substituted device 14 being proportioned to re-

ceive braid of a particular width from the tube 13 and guide the braid centrally to the needle 2. The device 14 comprises a transverse portion 18 seated on the presser foot 5 between the needle opening 15 therein and the lower end of the tube 13, a pair of prongs 19 extending downwardly from the part 18 and into perforations in the presser foot 5, and two spaced arms 20 adapted to receive a braid of a particular width between them to guide the same, and the distance between which is equal to the width of the braid to be guided thereby. The braid 9, as it leaves the tube 13, passes over the part 18 and between the arms 20; and the arms 20 extend upwardly from the part 18 to receive the braid from the tube 13, and then downwardly into the needle opening 15 in the presser foot on the respective sides of the needle path to guide the braid centrally to the needle 2 as the braid passes to and around the edge 16.

The prongs 19 engaging the walls of the perforation in which they are seated hold the guiding device in place upon the presser foot 5; and the device may be readily removed by withdrawing the prongs 19 from the perforations, and another device 14 whose arms 20 are spaced differently may be substituted by inserting its prongs into the perforations in the presser foot 5. The several devices 14 are alike excepting that their arms 20 have different spaces between them, the space between the arms of each device corresponding with the width of the braid to be guided thereby.

The fabric 8 may be guided by the operative, during the sewing operation, to sew the braid or trimming 9 thereto in a straight line or the fabric 8 may be manipulated to sew the braid or trimming 9 thereto in accordance with a particular design or pattern.

I claim as my invention:

1. A sewing machine presser foot provided with a horizontal portion having a needle opening therein and provided with a braid guiding device adapted to guide braid to and through said opening, said device being removable from the presser foot and comprising a transverse portion seated on the horizontal portion of the presser foot and adapted to receive the braid, spaced guiding arms adapted to receive the braid between them, and a prong extending into a perforation in the horizontal portion of the presser foot and adapted to be held therein by the pressure of braid passing over the guiding device.

2. A sewing machine presser foot provided with a horizontal portion having a needle opening therein and provided with a braid guiding device adapted to guide braid to and through said opening, said device being removable from the presser foot and

comprising a transverse portion seated on the horizontal portion of the presser foot and adapted to receive the braid, spaced guiding arms adapted to receive the braid between them, and two spaced prongs extending into perforations in the horizontal portion of the presser foot and adapted to be held therein by the pressure of braid passing over the guiding device.

3. A sewing machine presser foot having a needle opening therein and provided with a braid guiding device adapted to guide braid to and through said opening, said device being removable from the presser foot and comprising a transverse portion seated on the presser foot and adapted to receive the braid, spaced guiding arms adapted to receive the braid between them and extending first upwardly from said transverse portion and then downwardly into said opening, and means co-operating with the presser foot to hold said device in place thereon.

4. A braid guiding device for a sewing machine presser foot, comprising a transverse portion adapted to rest upon the presser foot, two spaced integral prongs extending therefrom and adapted to be seated in perforations in the presser foot to prevent the device from turning or shifting its position thereon, and two spaced guiding arms extending from the transverse portion and integral therewith and adapted to receive and guide braid between them.

5. A braid guiding device for a sewing machine presser foot, comprising a transverse portion adapted to rest upon the presser foot, an integral prong extending therefrom and adapted to be seated in a perforation in the presser foot to hold the device in place thereon, and two spaced guiding arms extending upwardly from the transverse portion and integral therewith and adapted to receive and guide braid between them, the free ends of said arms being turned downwardly and adapted to enter a needle opening in the presser foot.

6. A braid guiding device for a sewing machine presser foot, comprising a transverse portion adapted to rest upon the presser foot, two spaced integral prongs extending therefrom and adapted to be seated in perforations in the presser foot to prevent the device from turning or shifting its position thereon, and two spaced guiding arms extending upwardly from the transverse portion and integral therewith and adapted to receive and guide braid between them, the free ends of said arms being turned downwardly and adapted to enter a needle opening in the presser foot.

In testimony whereof I affix my signature hereto.

IGNATI GRICIUNAS.