D. W. FEITEL.

SAFETY GUARD FOR SEWING MACHINES.

APPLICATION FILED SEPT. 27, 1919.

1,384,607. Patented July 12, 1921.

Fig. 1.

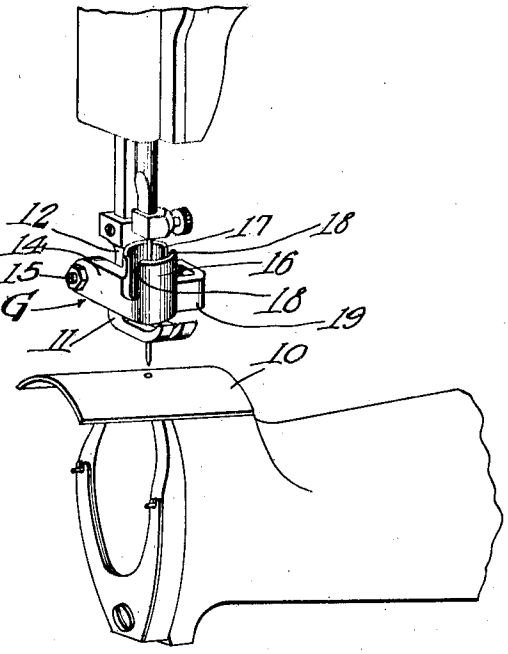


Fig. 2.

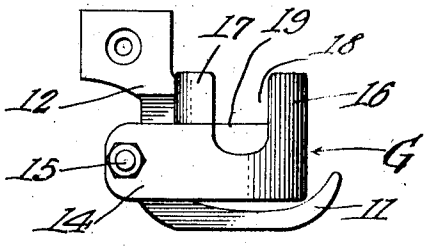


Fig. 4.

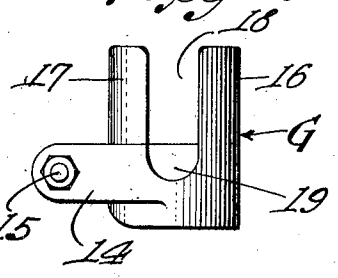


Fig. 3.

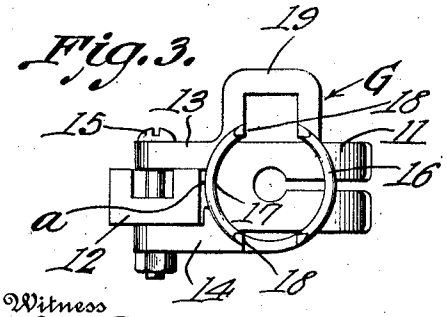
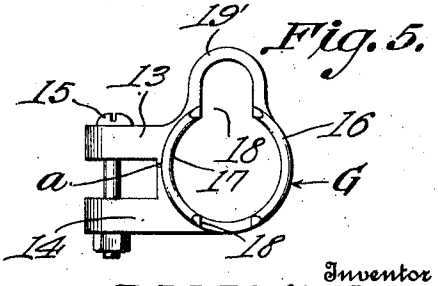


Fig. 5.



Witness

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SAFETY-GUARD FOR SEWING-MACHINES.

1,384,607. Specification of Letters Patent. Patented July 12, 1921.

Application filed September 27, 1919. Serial No. 326,893.

To all whom it may concern:

Be it known that I, DANIEL WEBSTER FEITEL, a citizen of the United States, residing at New Orleans, in the parish of Orleans and States of Louisiana, have invented certain new and useful Improvements in Safety-Guards for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in safety guards for sewing machines, one object of this invention being the provision of a guard readily attachable to the presser foot that will prevent the entrance of the finger during threading or sewing, to the needle, thus providing a device that will insure users against injury.

A further object of this invention is the provision of a safety guard made of a single piece of material, and preferably of a light material, such as aluminum, and one which is readily applied to the presser foot of a sewing machine, so disposed as to prevent the introduction of the finger between the presser foot and needle during the sewing operation.

A still further object of this invention is the provision of a safety guard which is simple, durable and inexpensive in construction and which is thoroughly efficient and practical in use.

In the accompanying drawings:

Figure 1 is a perspective view of a presser end of a sewing machine, showing the present guard attached thereo.

Fig. 2 is a side elevation on a large scale of the guard attached to the presser foot.

Fig. 3 is a top plan view thereof.

Fig. 4 is a side elevation of a modified form of guard.

Fig. 5 is a top plan view thereof.

Referring to the drawings, G indicates the guard, constituting the present invention, which is adapted to be connected to the shank 12 of the presser foot 11 of the sewing machine designated generally by 10, this being of the horn type machine, although it is understood that the same may be used on any sewing machine.

The guard is composed of a single piece of material formed to provide the clamping or attaching lugs 13 and 14 by means of the screw or bolt 15. Carried by these arms are the segmental portions 16 and 17 which provide slots or openings 18 for the reception of the fingers of the operator in threading the needle.

From one side of the guard, adjacent the lower edge thereof and spanning one of the spaces or openings 18, is a U-shaped member 19 which constitutes a passageway for the thumb nut that holds the needle in place in the machine. This in the modifications as shown in Figs. 4 and 5, is more rounded as 19′.

Both types of guard are split as at *a* so the clamping lugs 13 and 14 will have the desired tension when being gripped upon the presser foot, as shown in Figs. 1, 2 and 3.

From the foregoing description, it will be seen that as there is much space or "daylight" between the needle and presser foot when the needle is in its uppermost position, thus leaving an opening of approximately $\frac{3}{4}''$ between the point of the needle and presser foot, that the present guard will prevent the operators from introducing their fingers or hands underneath the needle point and thus relieving them of any liability to injury.

It will be noted that the wall nearest the presser foot can be made lower than here shown so that the operator may thread the needle in any position. By making the device of a light metal there is no extra strain placed upon the presser foot in carrying the same and in view of the fact that the recesses 18 are provided the thread may be easily introduced at either side of the needle.

What I claim as new is:

1. A safety guard for a sewing machine presser foot, including an integral member having a substantially cylindrical needle surrounding cylinder, the upper edge of which is slotted at diametrically opposite sides for the threading of the needle, which is adapted to project at all times to completely surround the needle to prevent the introduction of the finger below the needle and above the presser foot, there being formed from one side adjacent the lower end of one of the slots a substantially U-shaped projection for permitting the passage of the needle clamp therethrough, the lower edge of the cylindrical portion at right angles to the U-shaped member being split to render the edge flexible, and two

clamping lugs, one upon each side of the split portion for surrounding the presser foot and clamping the guard thereon.

2. A device adapted to be attached to the presser foot and acting as a needle guard for sewing machines, including an integral member having a cylindrical portion provided with diametrically oppositely disposed slots extending from the upper edge to below the middle thereof, said portion constituting a guard to prevent the finger from entering below the presser foot and a raised needle but permitting the threading of the needle, the lower portion at one side of the cylindrical portion adjacent to the lower end of one of the slots being provided with a substantially U-shaped extension, the right edge of the cylindrical portion at the bottom thereof and at right angles to the needle threading slots, being slotted to render that portion flexible, and two clamping lugs carried by the lower edges of the cylindrical portion, one upon each side of said last slot, forming a clamp to grip the presser foot.

In testimony whereof I affix my signature.

DANIEL WEBSTER FEITEL.