Oct. 13, 1925. 1,556,983

H. WEINTRAUB ET AL.

SEWING MACHINE GUARD

Filed July 15, 1925 2 Sheets-Sheet 1

Fig. 1.

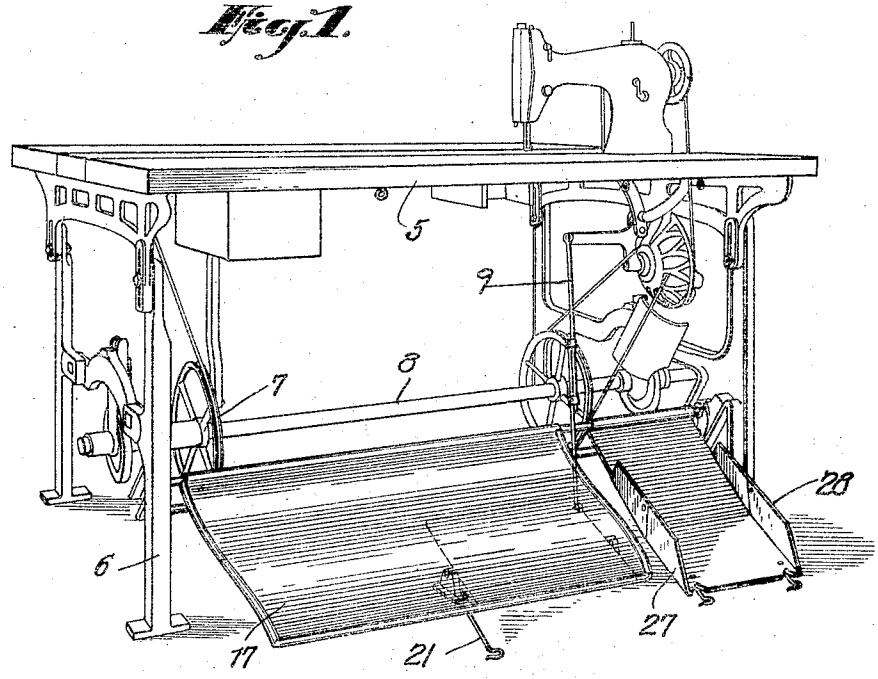
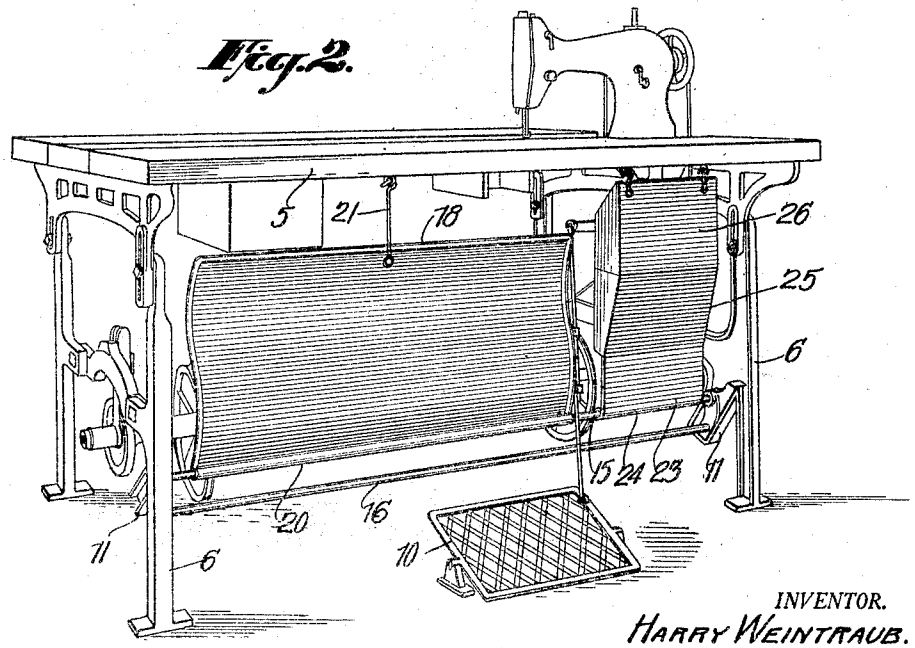


Fig. 2.



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Fig. 3.

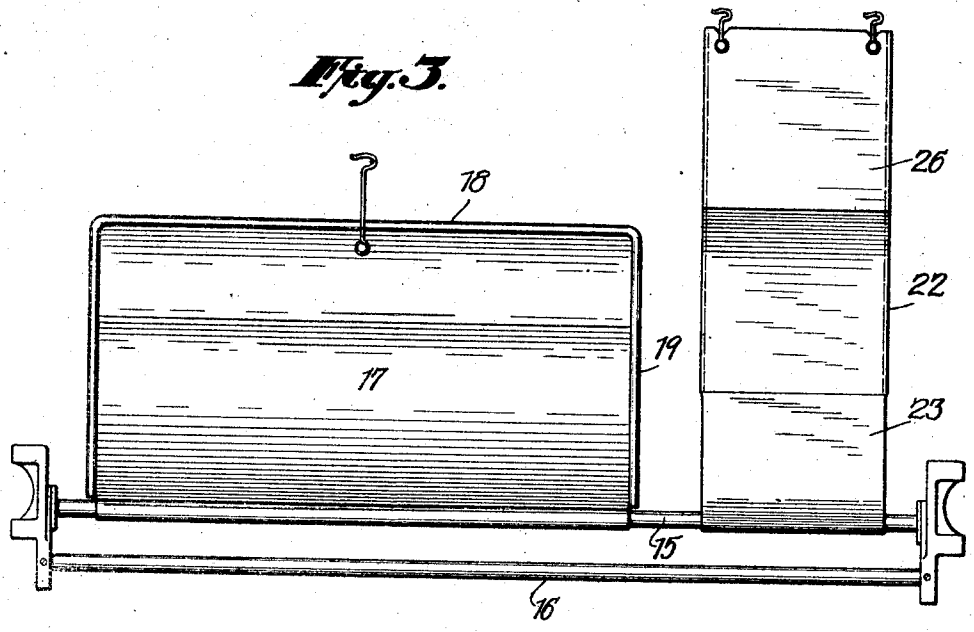


Fig. 4.

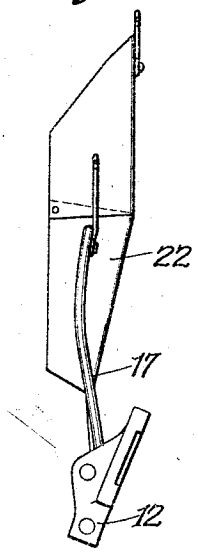
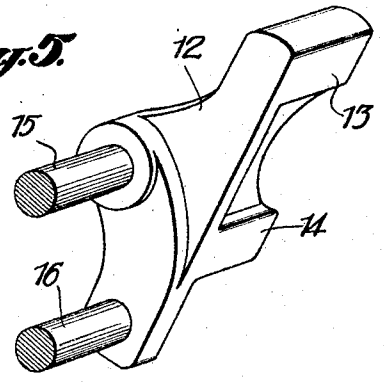


Fig. 5.



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UNITED STATES PATENT OFFICE.

HARRY WEINTRAUB AND ISREL SEITMAN, OF NEW YORK, N. Y.

SEWING-MACHINE GUARD.

Application filed July 15, 1925. Serial No. 43,823.

To all whom it may concern:

Be it known that we, HARRY WEINTRAUB and ISREL SEITMAN, citizens of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Sewing-Machine Guards, of which the following is a specification.

This invention relates to protecting devices for sewing machines and the like and more particularly to a novel and improved guard attachable to the frame of a sewing machine to avoid injuries to the operator.

One of the objects of our invention is to provide a sewing machine guard or protector for the transmitter shaft, pulley wheels, motor and other mechanism of the machine, which mechanism cannot be operated when the said guard is lowered, thus making it necessary that the operator position the said guard and thus protect himself against injuries.

A further object of our invention is to provide a machine attachment adapted to be installed and positioned on a sewing machine frame, the transmitter shaft, pulleys, motor and the foot treadle, said guard being constructed and arranged to prevent the clothing of the operator or any part of his person from coming in contact and being injured by the operating mechanism.

To enable others skilled in the art to fully comprehend the underlying features of our invention, that they may embody the same in the various alterations in structure and relation contemplated, drawings depicting a preferred form have been annexed as a part of this disclosure and in such drawings, similar reference characters denote corresponding parts throughout all the views, of which,

Figure 1 is a view, showing the application of our invention, the guard being down, rendering the machine operating mechanism inoperative.

Figure 2 is a similar view showing the guard when positioned to protect the operator from injury.

Figure 3 is a perspective view, showing the guard detached from the frame.

Figure 4 is an end view.

Figure 5 is a detailed view of a supporting bracket or adapter.

Referring now to the drawings, wherein like reference characters designate corresponding parts throughout the several views, 5 designates the conventional type of sewing machine frame, having the front supporting legs 6, a pulley and pulley wheel 7, transmitter shaft 8 and the link or rod connection 9 operable by a foot treadle 10, all of which is common to sewing machines. Our invention proper consists of what we term a shaft guard and two shields or protectors, mounted thereon at the front of the frame between the front supporting legs 6, above referred to. Attached to the skirt board brackets 11 we provide two end adapters, in the form of casting 12, having lugs 13, 14, whereby they may be fastened to the brackets 11, above referred to. The said adapters support top and bottom, horizontally extending, iron rods 15, 16, positioned forwardly of the transmitter shaft 8 of the sewing machine. In actual practice, we find that the lower rod 16 should be about seven and one-half inches from the floor or base of the supporting legs 6. The lower rod 16 is in the form of a reenforcing rod, which stabilizes the adapters and the supporting shields, further to be described. The said top and bottom rods 15, 16, may be attached to the end and inner sides of the adapters in any well known manner and with the said shields constitute a unit that may be positioned at the front of any conventional type of sewing machine frame where it may be required.

Referring particularly to Figures 1 to 3 inclusive, it will be observed that the top rod 15 supports the shield 17, which is substantially rectangular in shape, being rolled or curved slightly at a point just above the center to permit the operator to sit comfortably at the machine and allow freedom of the knees. The shield 17 is preferably constructed of galvanized sheet metal, having a rolled, top edge 18 and rolled side edges 19. The bottom roller edge 20 is loosely mounted on the shaft 15, so that the shield may be moved from the position shown by Figure 2 to the position shown by Figure 1 so as to cover the foot pedal 10. When the shield 17 is down, it will be readily understood that the operator cannot actuate the foot treadle 10 and before doing so, must raise the shield to the position shown by Figure 2 and lock or latch it with the hook 21 which passes through an eye as shown.

To the right of the shield 17 and spaced therefrom so as to permit the free operation

of the rod or link 9, we provide a second shield or guard designated in its entirety by numeral 22. The guard 22 is also constructed of galvanized sheet metal, the lower portion 23 of which is provided with a bottom rolled edge 24, whereby it may be mounted on the upper rod 15 in the same manner as the shield 17. The said guard 22 is provided with a slightly, bent wall 25, formed integral with the top 26, said top, being, of course provided with the usual hook and eye arrangement, whereby it may be fastened to the frame proper. The material of the front wall is bent inwardly to provide flanges 27, 28, thus shielding the motor and other operating mechanisms connected to the machine head.

It will be readily appreciated that by providing a guard and protector of this character wherein the solid shield is positioned between the transmitter shaft and the foot treadle, that the danger from the mechanism, when in operation, is eliminated and thus accidents are reduced to a minimum. Of course, when it is required to gain access to the transmitter shaft, pulleys or motor, the shield may be lowered to the position as shown by Figure 1, but it will be readily understood that the shield must be again raised and attached before the operator can operate the treadle that controls the operating mechanism of the machine head.

While we have illustrated and described our invention with some degree of particularity, we realize that in practice various alterations therein may be made. We therefore reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit of the invention or the scope of the appended claims.

Having thus described our invention, what we claim as new and desire to secure by United States Letters Patent is:—

1. A machine guard of the class described comprising a shield, a supporting rod, means for connecting the shield to the rod whereby it may be lowered to render a machine foot pedal inoperative and means for supporting said rod to the front of a machine frame.

2. A machine guard of the class described comprising a shield, a supporting rod, means for attaching the shield to the rod whereby it may be lowered to render a machine foot pedal inoperative and means for supporting said rod to the front of a machine frame forwardly of the transmission shaft of said frame.

3. A machine guard of the class described comprising a rod, a shield attached to said rod, means for attaching said shield to said rod forwardly of the transmission shaft and power operating mechanism of a machine, said shield being movable to a position whereby the foot pedal is rendered inoperative and means connected to the ends of said rod for attaching the same to the front of a machine frame.

4. A machine guard of the class described comprising a pair of adapters, a top and bottom rod connected to said adapters, a shield connected at its bottom to the top rod, a second shield connected to the top rod at one side of the first mentioned shield, means for fastening said shields in a vertical position to a machine frame and forwardly of the transmission shaft and power operating mechanism, one of said shields being adapted to be lowered over the foot pedal of a machine to render the same inoperative.

5. A machine guard of the class described comprising a shield, a supporting rod, means connecting the lower edge of said shield to said rod whereby it may be swung thereon and lowered over the foot pedal of a machine, said shield being bent inwardly and adapted to be fastened in a vertical position to the machine frame, forwardly of the transmission shaft and power operating mechanism.

In testimony whereof we affix our signatures.

HARRY WEINTRAUB. [L. S.]
ISREL SEITMAN. [L. S.]