F. HEINDRICH AND J. GLUCK.

SEWING MACHINE ATTACHMENT.

APPLICATION FILED AUG. 8, 1921.

1,430,165.

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FIG. 2.

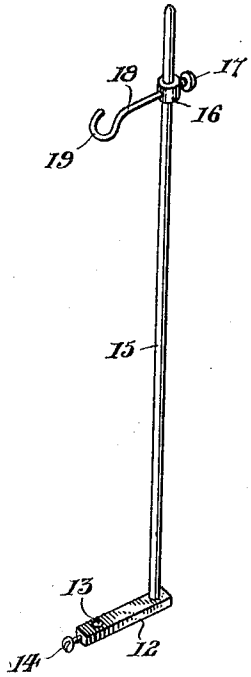


FIG. 3.

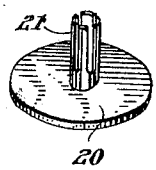


FIG. 1.

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UNITED STATES PATENT OFFICE.

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SEWING-MACHINE ATTACHMENT.

Application filed August 8, 1921. Serial No. 490,596.

To all whom it may concern:

Be it known that FRANCES HEINDRICH and JULIUS GLUCK, citizens of the United States of America, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Sewing-Machine Attachments, of which the following is a specification.

This invention relates to sewing machine attachments and has special reference to a thread holder and guide for sewing machines.

It is a well known fact that in the ordinary construction of sewing machines the spool of thread used on the machine is held on a pin which projects upward from the arm of the machine. From this spool the thread is led through certain tensioning devices to the needle. One of these tensioning devices constantly oscillates during the operation of the sewing machine and this oscillation imparts a series of jerks to the thread on the spool so that the latter is turned around by these jerks during the unwinding of the thread. With this construction it frequently happens that the thread from the spool becomes loose and drops down so that it catches between the base of the spool and the arm of the machine and in consequence breaks.

One important object of the present invention is to provide an improved attachment for sewing machines wherein the thread will be unwound from the spool without the latter being rotated and wherein also provision will be made which renders it impossible for this thread to catch beneath the base of the spool.

A second important object of the invention is to provide with this attachment improved means whereby the thread will be prevented from catching in any looseness or nick in the end of the spool.

With the above and other objects in view, the invention consists in general of certain novel details of construction and combination of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—

Figure 1 is a side elevation showing the improved device applied to the spool.

Figure 2 is a perspective view of one portion of the improved attachment.

Figure 3 is a perspective view of a second portion of such attachment.

In illustrating the present embodiment of the invention there has been shown in Figure 1 a portion of a sewing machine on which the arm is indicated at 10 and the spool receiving pin at 11. The attachment itself consists of a base member 12 having at one end an opening 13 arranged to fit on the pin 11 and at this end of the base there is also provided a set screw 14 so that the base may be locked securely to the pin 11 in any desired position. The base 12 is in the form of an elongated bar and from the free end of this bar there extends upward a standard 15 having mounted on its upper end a collar 16 which is held in adjusted position by a set screw 17. Projecting from this collar is an arm 18 provided on its extremity with a laterally twisted hook 19. This hook is so positioned as to be substantially over the pin 11. On the base 12 is mounted a circular spool holding plate 20 having a split tubular extension 21 arranged to engage tightly in the opening of the spool. Similarly the spool is capped with a second plate 20 also provided with the split tubular extension 21. These plates are made of greater diameter than the diameter of the spool to which they are to be applied and the split extensions are so arranged that when applied to the spool the plates will be held frictionally in position. The spool itself is indicated in Figure 1 at 22 and it will be seen that the thread 23 is led from the spool through the hook 19 and from there in the usual manner to the machine needle. In operation the thread 23 will be drawn off from the top of the spool, passing smoothly around the weight disk or plate 20. This will be accomplished without rotation of the spool and by reason of the weight of the disks 20 the spool will not at any time be jerked up on the pin 11. Thus it will be impossible for the thread to catch beneath the spool base and the breakage thereto is obviated.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that minor changes may be made in the form and construction of the invention without departing from the ma-

terial principles thereof. It is not therefore desired to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope claimed.

Having thus described the invention, what is claimed as new, is:—

1. An attachment to sewing machines comprising an elongated base bar having an opening at one end attached to fit on the spool receiving pin of a sewing machine, a set screw passing through said bar into said opening to engage and hold the same on said pin, a standard extending upward from the opposite end of the bar, a sleeve slidable and rotatable on the upper end of said standard, a set screw extending through the said sleeve and engaging said standard to hold the sleeve in adjusted position, an arm projecting outward from said sleeve, and a thread guide hook formed on the outer end of said arm.

2. An attachment to sewing machines comprising an elongated base bar having an opening at one end attached to fit on the spool receiving pin of a sewing machine, a set screw passing through said bar into said opening to engage and hold the same on said pin, a standard extending upward from the opposite end of the bar, a sleeve slidable and rotatable on the upper end of said standard, a set screw extending through the said sleeve and engaging said standard to hold the sleeve in adjusted position, an arm projecting outward from said sleeve, a thread guide hook formed on the outer end of said arm and a weight disk of greater diameter than a thread spool and provided with a tubular central portion adapted to receive said pin, said central portion being split to provide fingers frictionally engageable with the wall of the opening through a spool, said disk being positioned on the spool below said hook.

In testimony whereof we affix our signatures.

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