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A. E. J. CATTERALL.

THREAD GUIDE FOR SEWING MACHINES.

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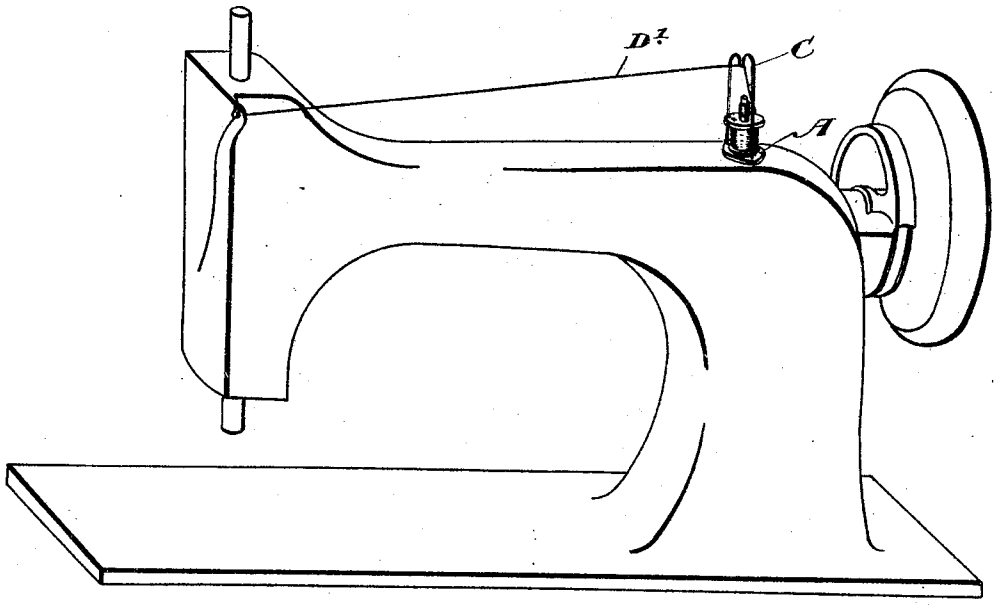


Fig. 1.

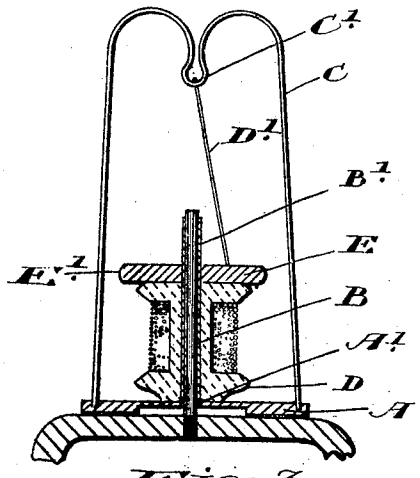


Fig. 3.

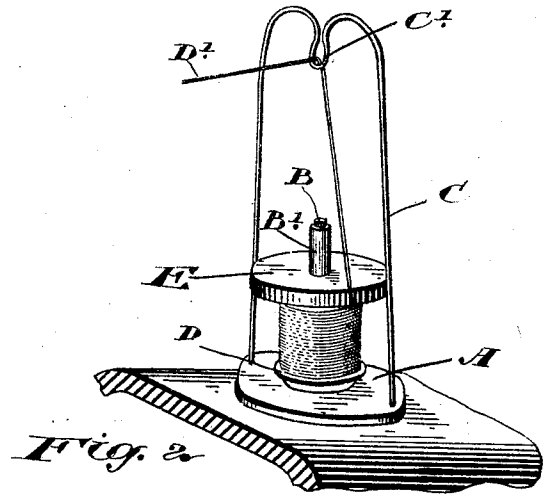


Fig. 2.

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THREAD-GUIDE FOR SEWING-MACHINES.

No. 799,632. Specification of Letters Patent. Patented Sept. 19, 1905.

Application filed March 24, 1905. Serial No. 251,834.

To all whom it may concern:

Be it known that I, ANNIE ELIZABETH JANE CATTERALL, gentlewoman, residing at the city of Toronto, in the county of York, Province of Ontario, Canada, have invented certain new and useful Improvements in Thread-Guides for Sewing-Machines, of which the following is a specification.

My invention relates to improvements in thread-guides for sewing-machines; and the object of the invention is to devise a guide for the thread which will obviate any liability of the thread dropping and breaking consequent to twisting around the spool-spindle; and it consists, essentially, of a base having a central opening for the spool-spindle and supported on the sewing-machine arm and a standard secured in the base and having a loop-thread guide located immediately above the spool, an extension-sleeve for the spool-spindle, and a weighted disk provided with a central hole through which the spool-spindle or sleeve extends, designed to rest on top of the spool, the parts being arranged and constructed in detail, as hereinafter more particularly explained.

Figure 1 is a perspective view showing my device as applied to a sewing-machine. Fig. 2 is an enlarged perspective detail of my thread-guide. Fig. 3 is a vertical section through Fig. 2.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the base, which is located on the top of the sewing-machine arm and is provided with a central hole A′, through which the spool-spindle B extends.

C is a wire standard having the lower ends secured in the base A, provided in the upper end with the loop C′, which is located directly above the spool and on the line with the spool-spindle B.

B′ is the sleeve, which surrounds the spool-spindle and rests on the base A.

D is the spool, and D′ the thread on the same.

E is the disk having a rounded peripheral edge E′, such disk being of sufficient weight so as to exert the pressure of the spool and consequently a tension on the thread, which passes from the spool upwardly and through the loop-thread guide C′ of the standard C, whence the thread passes to the guides and needle. The disk E is preferably of larger diameter than the spool.

The extension-sleeve is provided only in case of the spool-spindle not being long enough.

Such a device as I describe insures the thread passing off the spool and rotating easily around the same, being guided from the spool by the weighted disk E, so that in passing upwardly to the central loop there is no liability of the thread dropping and getting twisted around the spool-spindle or breaking.

It is to be noted that not only does the disk serve as a means for keeping the spool down and to apply tension on the thread, but also prevents the thread as it rotates around the spool from being caught in the slit, which is usually on the edge of the spool.

In my device it is not intended that the spool should rotate, and the disk also serves in connection with the position of the loop to prevent the rotation.

I wish to call attention to the fact that I preferably recess the base A at the bottom, so as to fit on the boss, which is formed on the arm of the sewing-machine around the spindle. I also provide a felt washer underneath the base, so as to prevent noise.

What I claim as my invention is—

1. A thread-guide for sewing-machines comprising a base having a central hole through which the spool-spindle extends so that said base is removably held on said spindle and the standard connected to said base and having a loop located directly above the spool-spindle and a weight-disk resting on the spool and having a hole through which the spool-spindle extends as and for the purpose specified.

2. A thread-guide for sewing-machines comprising a base having a central hole through which the spool-spindle extends so that said base is removably held on said spindle and the standard connected to said base and having a loop located directly above the spool-spindle and a weight-disk resting on the spool and having a hole through which the spool-spindle extends and a rounded peripheral edge as and for the purpose specified.

3. The combination with the base having a central hole through which the spool-spindle extends so that said base is removably held on said spindle and a standard connected to said base and having a loop located directly above the spool-spindle, of a disk having a central hole through which the spool-spindle extends and being of greater diameter than the spool as and for the purpose specified.

4. The combination with the base having a central hole through which the spool-spindle extends so that said base is removably held on said spindle and a standard connected to said base and having a loop located directly above the spool-spindle, of an extension-sleeve located on the spool-spindle and a disk through which the sleeve extends designed to rest on the spool as and for the purpose specified.

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