

H. MUINONEN.
SPOOL HOLDER.
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1,333,562.

Patented Mar. 9, 1920.

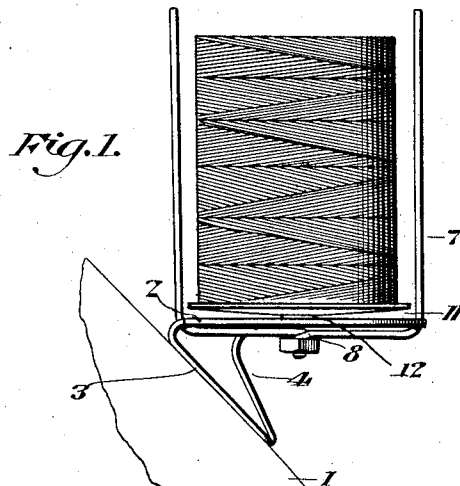


Fig. 3.

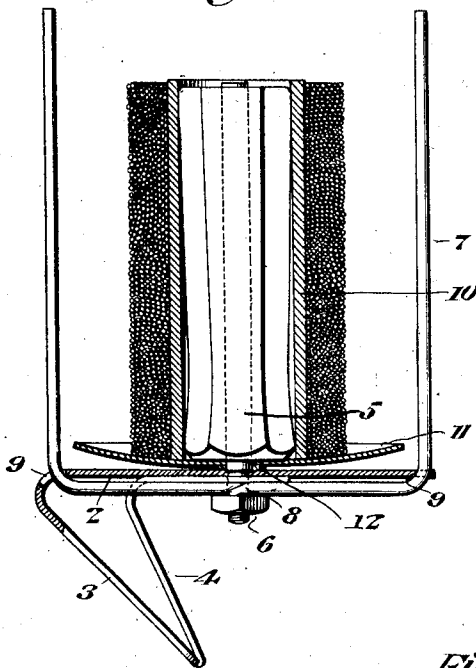


Fig. 2.

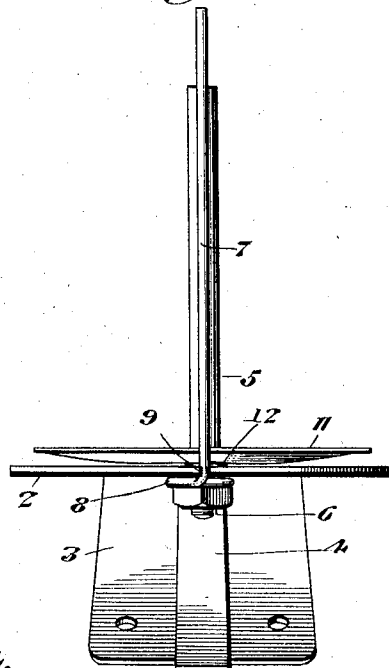


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

HISKIAS MUINONEN, OF NEGAUNEE, MICHIGAN.

SPOOL-HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HISKIAS MUINONEN, a citizen of the United States, residing at Negaunee, in the county of Marquette and State of Michigan, have invented new and useful Improvements in Spool-Holders, of which the following is a specification.

This invention relates to means for holding the spool of thread for shoe sewing machines and the principal object of the invention is to provide means for preventing the thread from becoming tangled on the machine and for preventing the breakage of the thread.

Another object of the invention is to provide means whereby the spool of thread will be caused to rotate as the thread is drawn therefrom by the machine.

The invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a portion of a shoe sewing machine showing my improvement in place thereon;

Fig. 2 is an enlarged view with the thread removed;

Fig. 3 is a longitudinal sectional view;

Fig. 4 is a view of the U-shaped guard members.

In these views 1 indicates a portion of the sewing machine and 2 indicates the base of the spool support which is secured to the machine by the inclined portion 3 forming a part of the base and being screwed to the machine. 4 indicates a brace extending between said inclined portion and the base. The end of this brace and the base are provided with registering openings through which the spindle 5 passes and a nut 6 is secured to the lower end of said spindle for holding the parts in position. 7 indicates a U-shaped guard, the cross piece of which is provided with a loop 8 which engages the lower end of the spindle and is secured thereon by the nut. The limbs of the guard pass through the slots 9 formed in the edges

of the base and project upwardly parallel to the spindle. These guards will be on opposite sides of the spool of thread when the same is placed in the device so as to prevent the thread from being entangled in parts of the machine. I provide a core member 10 which is adapted to be placed in the bore in the spool of thread to frictionally engage the same and this member is provided with a bore to receive the spindle so that the member may freely rotate on said spindle. This core member is provided with a plurality of flat sides as shown. I provide a saucer-shaped plate 11 which is provided with a central opening to receive the spindle and the spool with the core member rests in this plate. This plate facilitates the rotary movement of the spool and also prevents the thread from passing under the bottom of the spool and being caught thereby. This plate rests upon a washer 12. The spool rotates to the left.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A thread support for shoe sewing machines comprising a base, a spindle carried by the base, a saucer-shaped plate rotatably connected with the spindle for receiving the spool and a U-shaped guard member having its limbs projecting upwardly through the base with its cross piece connected with the lower end of the spindle.

2. A thread support for shoe sewing machines comprising a base, a spindle carried by the base, a saucer-shaped plate rotatably supported on the spindle, a ring engaging the spindle and spacing the plate from the base, a core member on the spindle for receiving the spool, said means resting on the plate and a U-shaped guard member having its limbs passing through the base and projecting upwardly on opposite sides of the spool with its cross piece connected with the lower end of the spindle.

In testimony whereof I affix my signature.

HISKIAS MUINONEN.