S. P. POULSEN.

THREAD GUIDE FOR SEWING MACHINES.

APPLICATION FILED APR. 2, 1908.

919,210. **Patented Apr. 20, 1909.**

Fig. 1.

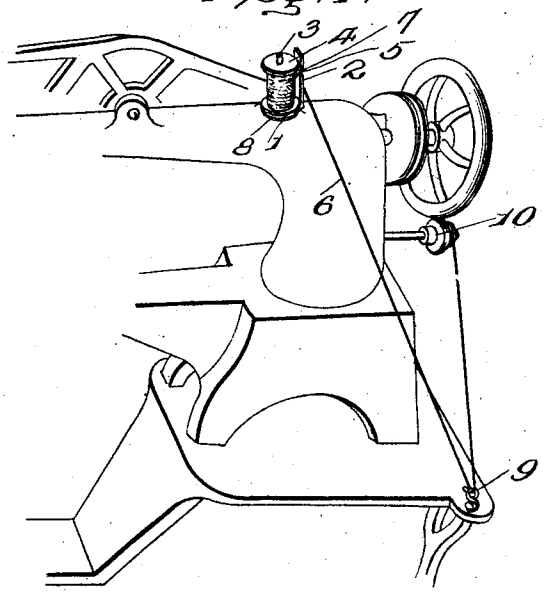


Fig. 2.

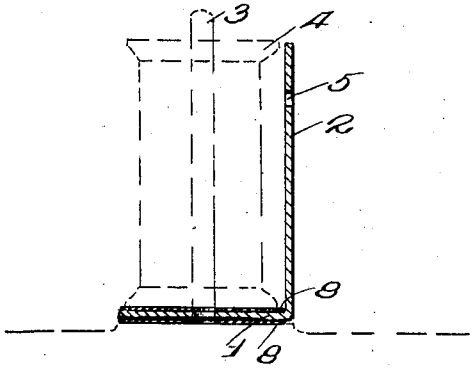
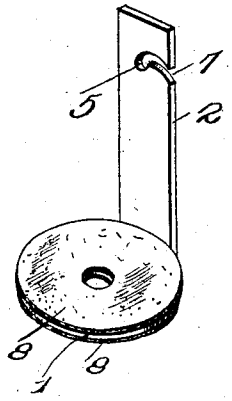


Fig. 3.



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UNITED STATES PATENT OFFICE.

SOREN P. POULSEN, OF RACINE, WISCONSIN.

THREAD-GUIDE FOR SEWING-MACHINES.

No. 919,210. Specification of Letters Patent. Patented April 20, 1909.

Application filed April 2, 1908. Serial No. 424,804.

To all whom it may concern:

Be it known that I, SOREN P. POULSEN, a citizen of Denmark, and having declared my intentions to become a citizen of the United States, residing at Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Thread-Guides for Sewing-Machines, of which the following is a specification.

The present invention provides means for giving proper direction to the thread when filling the bobbin or shuttle of a sewing machine, so as to prevent interference of said thread with the drive belt and at the same time leaving the hands of the operator free for manipulating the bobbin winder or for other purpose.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which:

Figure 1 is a perspective view of a portion of a shoe-maker's sewing machine illustrating the application of the invention. Fig. 2 is a sectional view. Fig. 3 is a detail perspective view of the thread guide fitted to the pin upon which the spool is mounted.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

While the invention is specially advantageous in connection with a shoe-maker's sewing machine substantially as illustrated, nevertheless, it may be applied with great benefit to sewing machines for domestic or other use. The thread guide consists of a disk 1 having an arm 2 at one edge, said disk having a central perforation to receive the pin 3 of the sewing machine upon which the spool 4 is mounted. An eye 5 is provided in the upper portion of the arm 2 for the passage of the thread 6, and in order that said eye may be easily and quickly threaded, a slot 7 extends outward therefrom through an edge of the arm 2. Inasmuch as the thread 6 takes a downward course from the spool 4, it is expedient that the slot 7 curve upward from the eye 5 so as to prevent the accidental displacement of the thread therefrom. The disk 1 and arm 2 are of integral formation, being parts of a piece of sheet metal stamped into the required shape and having the arm 2 bent approximately at a right angle to the disk so as to extend up alongside the spool 4.

To prevent scratching the arm of the sewing machine adjacent to the pin 3, and also to create a slight friction to prevent the thread from unwinding from the spool 4 too freely, both sides of the disk 1 are covered with a material, such as soft rubber, felt or the like. The material 8 is preferably secured to opposite sides of the disk 1 by a suitable adhesive.

A guide 9 is secured to a corner of the sewing machine stand about opposite to the hand wheel and bobbin winder. The thread 6, after leaving the spool 4 and passing through the eye 5 of the thread guide applied to the pin 3, passes downward, thence through the guide 9 and is made fast to the bobbin upon which it is to be wound and which bobbin is secured to the bobbin winder 10 of any approved construction and make and desired to be rotated in the well known manner. The guide 9 deflects the thread and the acute angle formed between the two portions enables them to clear the drive belt so as not to interfere therewith.

The thread guide involves a simple construction and may be applied to the pin or spool spindle of any sewing machine, and besides facilitating the filling of a bobbin or shuttle, also serves to direct the thread to the sewing machine needle, when sewing, and thereby prevent the thread passing above or below the spool and wrapping about the pin 3 and causing either breakage of the thread or a bending or snapping of the needle.

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

1. The herein described thread guide for sewing machines, the same consisting of a disk having an opening to receive the pin or spool spindle, and a flat arm projected upward from an edge of the disk and having an eye for the thread and a slot extended outward horizontally from the eye through an edge of the arm to admit of said eye being easily and quickly threaded.

2. A thread guide for sewing machines, the same consisting of a disk having an opening to receive the spool spindle and having a flat arm provided with an eye, and an upwardly curved slot leading horizontally from the upper portion of said eye outward through an edge of the arm.

3. A thread guide for sewing machines consisting of a disk having an opening, and provided at one edge with an integral flat arm in which is formed an eye, and a slot extended outwardly from the upper portion of the eye through the outer edge of the arm and a disk of soft material attached to the upper and lower sides of the aforesaid disk.

In testimony whereof I affix my signature in presence of two witnesses.

SOREN P. POULSEN. [L. S.]

Witnesses:
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