No. 798,095. PATENTED AUG. 29, 1905.

F. EGGE.

SPOOL HOLDER FOR SEWING MACHINES.

APPLICATION FILED APR. 11, 1905.

Fig. 1.

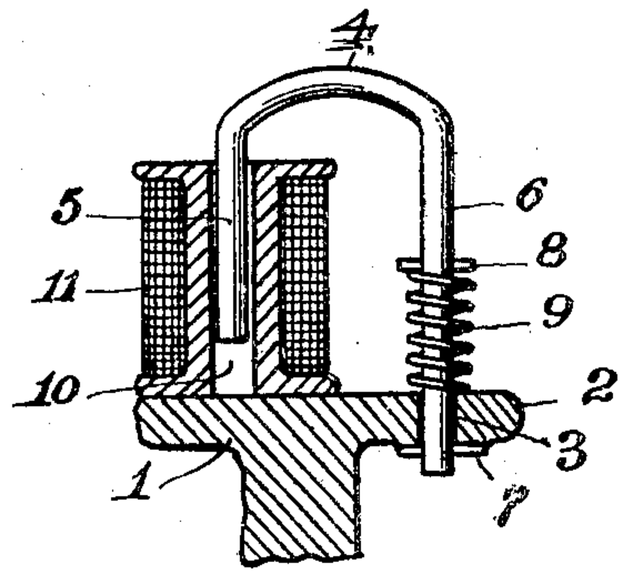


Fig. 2.

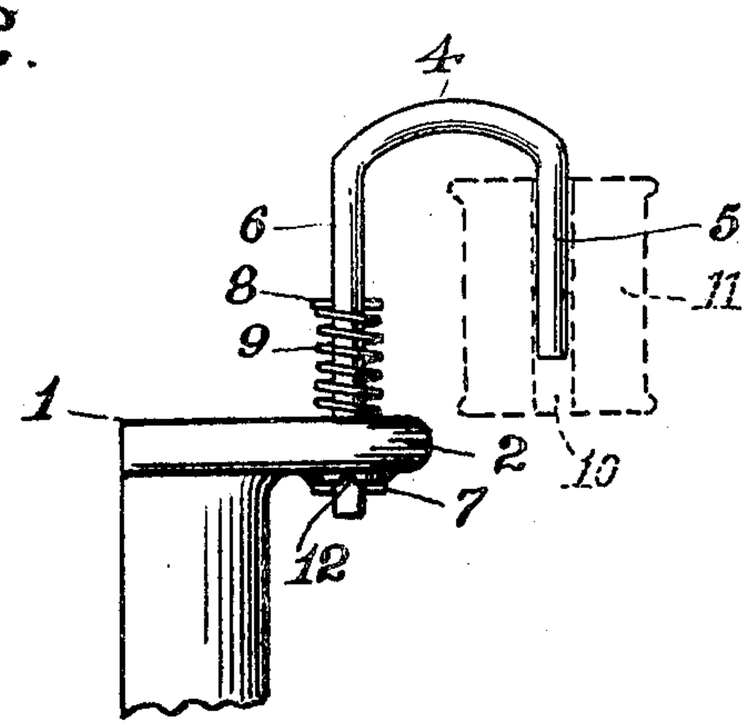
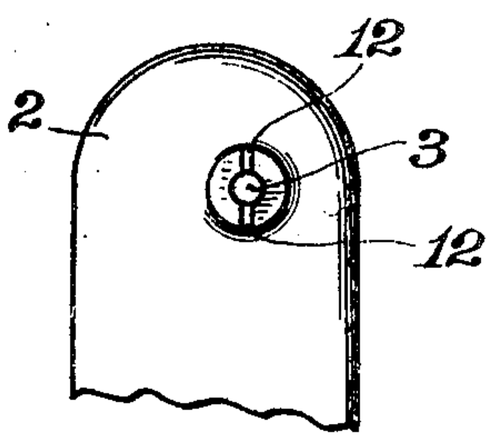


Fig. 3.



WITNESSES:

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FREDERICK EGGE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE SMITH AND EGGE MANUFACTURING COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

SPOOL-HOLDER FOR SEWING-MACHINES.

No. 798,095. Specification of Letters Patent. Patented Aug. 29, 1905.

Application filed April 11, 1905. Serial No. 254,943.

To all whom it may concern:

Be it known that I, FREDERICK EGGE, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Spool-Holders for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to spool-holders such as are used on the heads of sewing-machines for the purpose of holding thread; and it consists in the novel parts and combination of parts hereinafter described, and specifically pointed out in the claims which conclude this application.

In the accompanying drawings, Figure 1 is a sectional elevation showing my improvement applied in position for use; Fig. 2, an elevation showing the position of the parts when the spool-holder is swung to one side, and Fig. 3 a bottom view of the ledge which supports my improved holder.

Similar numbers of reference denote like parts in the several figures of the drawings.

1 represents a part of a sewing-machine head that is provided with a ledge 2, which has a perforation 3 extending from the top to the bottom.

My improved spool-holder proper consists of a frame composed of a cross-bar 4, having depending therefrom two arms 5 6. These two arms are of unequal lengths, and the long arm 6 extends through the perforation 3 and is provided with a cross-pin or stop 7 at the lower end, whereby said arm is secured as against withdrawal from said perforation. 8 is a cross-pin or stop extending through this arm 6 at a point above the ledge 2, and confined between this cross-pin and the ledge itself is a coil-spring 9, whose function is to keep this arm normally elevated, so as to insure a firm impact of the pin or stop 7 against the bottom of the ledge. The arm 5 does not extend down to the top surface of the sewing-machine head 1, and when my improvement is in the position shown at Fig. 1 this arm will be projected down within the opening 10 of the spool 11, but will not extend to the bottom of the spool, and therefore any loose coils of thread which may be dropped from the spool may be readily drawn out between the bottom of the spool and the sewing-machine head itself, thereby preventing any tangling or breaking of said thread. When it is desired to remove the spool, the frame is swung to one side, as shown at Fig. 2, and the spool is then readily taken off, and in this position of the frame a succeeding spool of thread may be placed on the arm 5 and the frame then swung back to operative position. When the frame is in operative position, as shown at Fig. 1, the lower cross-bar 7 will have engaged with notches 12 in the bottom of the ledge on opposite sides of the perforation 3, and this cross-bar will then be seated within these notches and will be held therein by the action of the spring 9, so that there can be no likelihood of the accidental displacement of the frame. When the frame is swung to one side, the pin 7 will ride out of the notches 12 against the resiliency of the spring, and the action of the latter will hold the frame at all times so that it cannot swing idly.

While the notches materially aid in holding the frame in operative position, nevertheless they are not absolutely necessary, since the spring element may be strong enough to insure a firm enough impact of the stop at the bottom of the long arm against the bottom of the ledge, so as to hold the frame in operative position, and therefore I do not wish to be limited to the employment of these notches.

I do not wish to be understood as making any broad claim either to a spool-holder or to a U-shaped frame having any hinged connection, since my invention is limited to the combination of the elements specified, whereby said holder may be always operated in a horizontal plane.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a spool-holder, the combination of the sewing-machine head provided with a perforated ledge, the frame consisting of a cross-bar and two depending arms of unequal lengths the longer arm extending vertically and loosely through the perforation in the ledge and having lateral projections at the bottom below said ledge whereby said arm is held in position as against withdrawal

from said perforation, while the shorter of said arms in normal position overhangs the sewing-machine head but is separated therefrom by a space, and the spring arranged to resist the downward thrust of said longer arm whereby the latter is normally elevated with said projections impacting firmly against the bottom of said ledge.

2. In a spool-holder the combination of the sewing-machine head having a ledge perforated from top to bottom, notches in the under side of said ledge on opposite sides of said perforation, the frame consisting of a cross-bar and two depending arms of unequal lengths the longer of said arms extending through the perforation in the ledge and provided with one cross-pin beneath said ledge and a second cross-pin above said ledge, and the coil-spring confined between the upper cross-pin and said ledge whereby the lower cross-pin normally has a firm impact against the bottom of the ledge and may be seated within said notches when the frame is in operative position.

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

FREDERICK EGGE.

Witnesses:

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M. T. LONGDEN.