(No Model.)

L. H. GOODWIN.

SPOOL HOLDER FOR SEWING MACHINES.

No. 367,972. Patented Aug. 9, 1887.

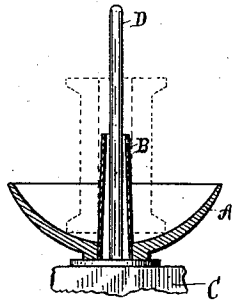


Fig. 1.

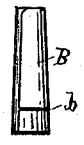




Fig. 2.

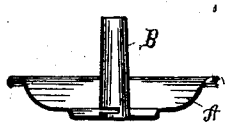


Fig. 3.

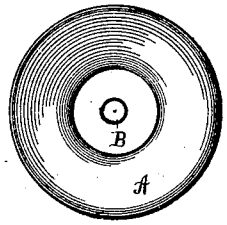


Fig. 4.

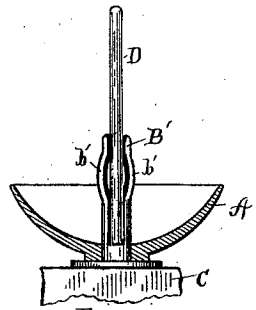


Fig. 5.

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LEVI H. GOODWIN, OF CINCINNATI, OHIO.

SPOOL-HOLDER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 367,972, dated August 9, 1887.

Application filed January 19, 1886. Serial No. 189,051. (No model.)

To all whom it may concern:

Be it known that I, LEVI H. GOODWIN, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Spool-Holders for Sewing-Machines, of which the following is a specification.

My invention is an improved spool-holder for sewing-machines. Its object is to provide a simple and inexpensive device to fit over the common spool-spindle of sewing-machines to hold the spool and revolve with it, so as to prevent the thread from unwinding and catching under the spool and around the dead-spindle, and thereby avoid the inconvenience from the breaking of the thread and needle usually experienced when the spool is mounted for use upon the stationary holder.

To this end my invention consists in a light disk or dish-shaped washer, which has a central spring-holder of split tubular form projecting up from it to fit over the spindle of the machine and hold the spool.

In the accompanying drawings, forming part of this specification, Figure 1 is a radial sectional view of the form of spool-holder which I employ, when the same is made of cast metal or other material pressed up in molds. Fig. 2 shows in detail the preferred form of hollow spindle, the upper view being a longitudinal section and the lower one a plan view or end elevation. Fig. 3 is a radial section of my preferred form of holder. Fig. 4 is a plan view of the form shown in Fig. 3. Fig. 5 is a view similar to Fig. 1, except that the spool-spindle consists of spring-fingers instead of the hollow spool-tube represented in the other figures.

Like parts are indicated by similar reference-letters throughout the various views.

A is a dish-shaped washer stamped up from light sheet metal, as shown in Fig. 3, or molded of any suitable material, as shown in Figs. 1 and 5. It has a central opening in the bottom, within which is fitted, as represented in Figs. 1 and 3, the hollow sheet-metal tube B. One longitudinal edge of this tube overlaps the other and is free, the overlapping edge being slotted around for some distance, at *b*, near the bottom of the tube, as clearly shown in Figs. 2 and 3, so that it will compress together as the spool is forced over it, and thus hold spools having different-sized bores by spring-pressure, the tube B being for this purpose made tapering from bottom to top. The lower end of this tube B is secured to the holder A by soldering, or in any other suitable manner. In the form shown in Fig. 5 the spool-holder B consists of spring-fingers formed by slotting a metal tube from the top to near the bottom and curving the fingers outwardly, as at *b'*, to serve as spring-bearings against the bore of the spool. It is obvious that there may be many variations of the spring-holder B or B' that may be adopted in place of the forms shown without departing from the principle of my invention.

It would be an inferior modification of my holder to make the part B in the form of a plain tapering tube, as it would require many different sizes of holders to accommodate all the spools in use, while with the spring tube-holder but few sizes will be needed for all kinds of machines; and while I prefer to use the dish-shaped washer A, as shown in the drawings, the same result would be accomplished, but not, it is believed, so perfectly by making the washer A in the form of a flat disk.

In Figs. 1 and 5, C represents a portion of the frame of the sewing-machine, and D the ordinary spool-spindle, the spool in Fig. 1 being shown in position in dotted line.

What I claim as new, and desire to secure by Letters Patent, is—

A spool-holder for sewing-machines, substantially as hereinbefore set forth, consisting of washer A, and the spring-holder B, being of split tubular form, projecting up centrally from said washer.

LEVI H. GOODWIN.

Witnesses:
J. M. HICKMAN,
GEO. J. MURRAY.