

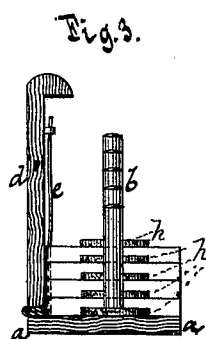
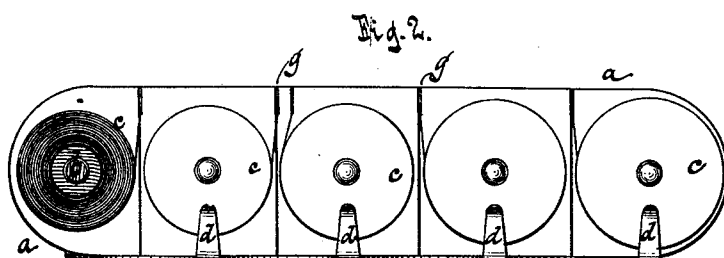
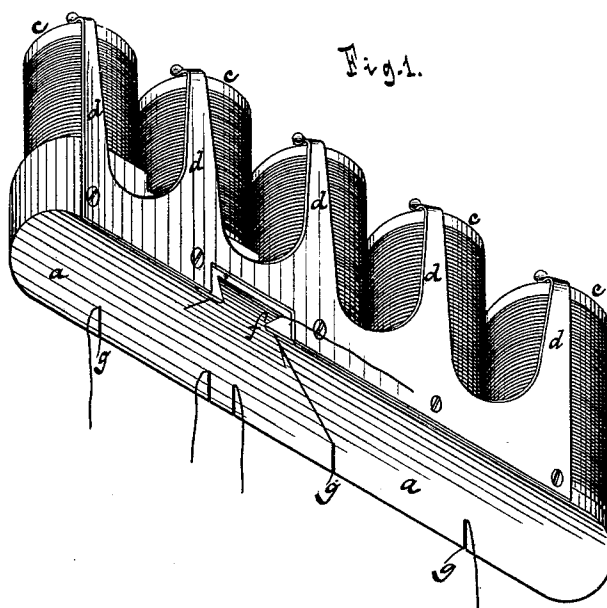
(No Model.)

2 Sheets—Sheet 1.

W. S. AUCHINCLOSS.
Spool Support.

No. 233,131.

Patented Oct. 12, 1880.



Witnesses

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William Miller

Inventor
William S. Auchincloss.
by Venable, Wood & Hauff
his attorneys

(No Model.)

2 Sheets—Sheet 2.

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Spool Support.

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Fig. 4.

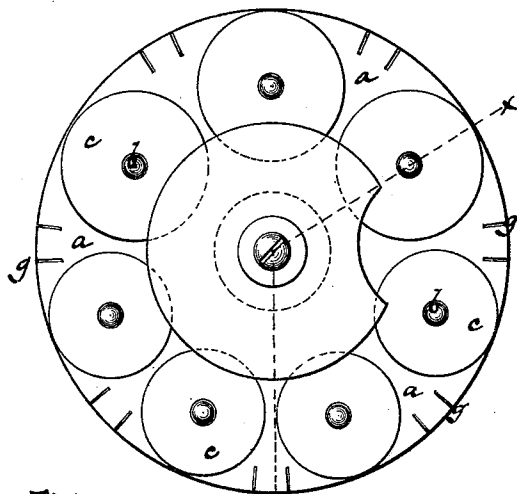


Fig. 5.

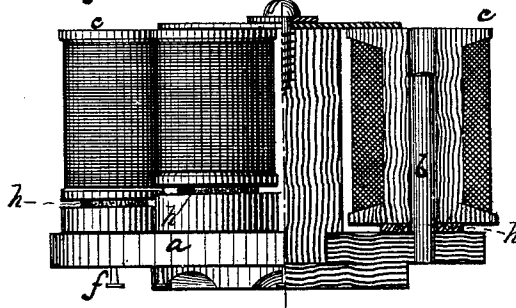
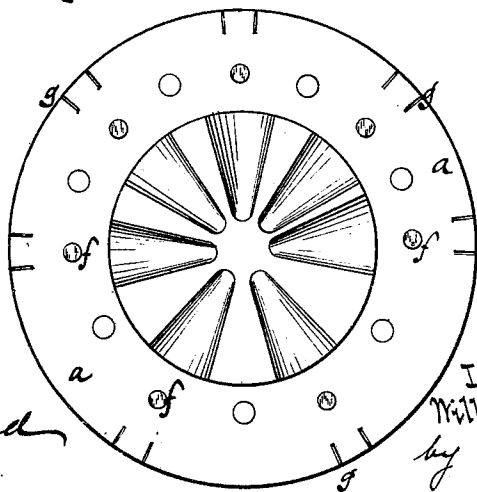


Fig. 6.



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UNITED STATES PATENT OFFICE.

WILLIAM S. AUCHINCLOSS, OF PHILADELPHIA, PENNSYLVANIA.

SPOOL-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 233,131, dated October 12, 1880.

Application filed July 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. AUCHINCLOSS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Spool-Supports, of which the following is a specification.

This invention consists in the combination, in a spool-support, of a bar or frame, a series of spindles secured in said bar or frame and adapted to engage with the barrels of the spools, and a clip (one or more) arranged independently of the spindles, and to extend over the spools from the outside thereof, for retaining the spools on the spindles, as hereinafter described. Slits may be formed in the bar or frame for retaining the ends of the threads. A cutting-blade or breaking-pin may also be attached to the device for severing the threads.

In order to accommodate spools of varying size, steps may be formed in the bar or frame so as to permit longer or shorter spools to rest between the clips and the bar or frame.

This invention is illustrated in the accompanying drawings, in which Figure 1 shows a perspective view of the support. Fig. 2 is a plan view, partly in section. The remaining figures are referred to in their proper places.

Similar letters indicate corresponding parts.

The letter *a* designates a bar or frame on which the spools rest. Spindles *b* rise from said bar or frame and engage with the barrels *c* of the spools, so that they revolve readily about said spindles. In order to prevent the spools from falling off the spindles, I provide clips *d*, which can be pressed outward to leave the spools free to be taken off; but on being released said clips spring back to their normal position, whereby the spools are held in place, but are left free to revolve. These clips are screwed or otherwise secured to the bar or frame *a* independently of the spindles, and at such distance therefrom as to permit the spools to be freely placed upon the said spindles, and that the projecting portions of the clip or clips will extend over the upper heads of the spools and prevent them from escaping from the spindles except when the clips are moved back.

As shown in Fig. 1, I preferably make these

clips of elastic strips of sheet metal cut to the proper form, and have one for each spool. One clip, however, may be provided of sufficient length to extend over all the spools.

In order to accommodate my spool-holder for spools of varying heights, I provide a series of steps on the bar or frame *a*, (see Fig. 3,) and insert a spindle in each step, whereby the upper labels of spools of various sizes are brought into one and the same plane, and one clip can serve to prevent the spools falling off the spindles.

In Fig. 3 is shown a modified form of clip. A piece of wood or other suitable material is hinged onto the bar or frame *a*, and is provided with a lip for catching over the tops of the spools. A spring, *e*, forces the clip inward on its hinges and maintains it in that position. This device admits of a row of spools on each side of the hinged clip.

To the bar or frame *a* are secured breaking-pins, or a knife or cutter, *f*, for severing the threads. To secure the ends of the threads I form the bar or frame *a* with slits *g* for grasping the ends of said threads.

It is not necessary to arrange the spools in a right line; but the frame *a* may be made of circular or polygonal shape (see Figs. 4, 5, and 6, Fig. 4 being a plan view, Fig. 5 a section in the plane *xx*, Fig. 4, and Fig. 6 an inverted plan view) and provided with spindles around its periphery. A standard may be fastened to the center of such frame, which standard carries on its top a revolving plate or disk, which prevents the spools from sliding off the spindles. By cutting a sufficiently large piece out of this plate or disk the spools can be successively removed from the spindles, as such cut, on revolving the disk or plate, is brought in succession over the spools.

In Fig. 5 I show the application of breaking-pins *f*, which may serve as a substitute for a knife or cutter.

The whole device may further be supplied with a clamp for fastening the same to a lady's work-box or other convenient place. By this means I obtain a support for spools, on which said spools are free to revolve, and when empty they can be readily removed and replaced by a new one.

In order to preserve the upper labels of the

spools intact, I make the spindles *b* of such length that they only enter a part of the distance into the barrels of the spools.

In order to prevent too free revolution of the spools, the spindles *b*, as also the bars or frames *a*, may be covered with velvet, plush, rubber, or other similar material, a washer, *h*, being shown in the present instance as surrounding the base of the spindle and resting upon the frame. This washer may be formed of velvet, plush, rubber, or other similar material, and its elasticity causes the spool resting upon it to have a slight pressure upon the clip to prevent the too free turning of said spool.

If desired, also, the bar or frame *a* can be made of such size as to carry a pin-cushion, scissors, thimbles, needles, and the like. A small drawer may also be formed in the same for the reception of various articles.

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

1. A spool-support provided with a series of spindles to support the spools, and rising re-

spectively from steps or bases of different heights, in order that a series of spools of different lengths may have their outer heads or ends brought in the same plane, and a suitable clip or clips for preventing the escape of the spools from the spindles, substantially as described.

2. In a spool-support, the combination, with the bar or frame *a*, of a series of spindles secured in said bar or frame and adapted to receive spools, a clip or clips arranged to extend over the outer heads or ends of the spools, and a cushion or covering of elastic material arranged upon the spindle or frame to force the outer head of a spool in contact with the overhanging clip, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

WM. S. AUCHINCLOSS.

Witnesses:

ABRAHAM JORDAN,

S. G. MEETEER.