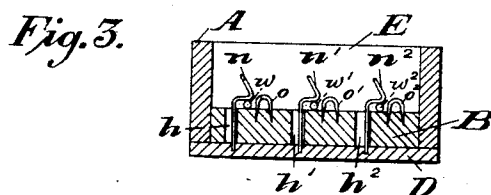
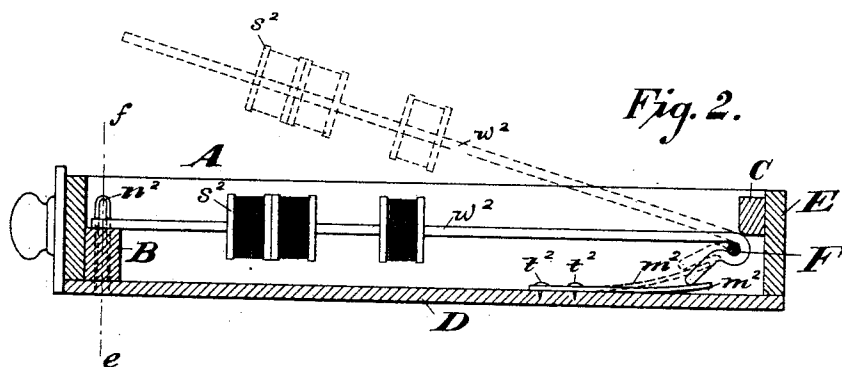
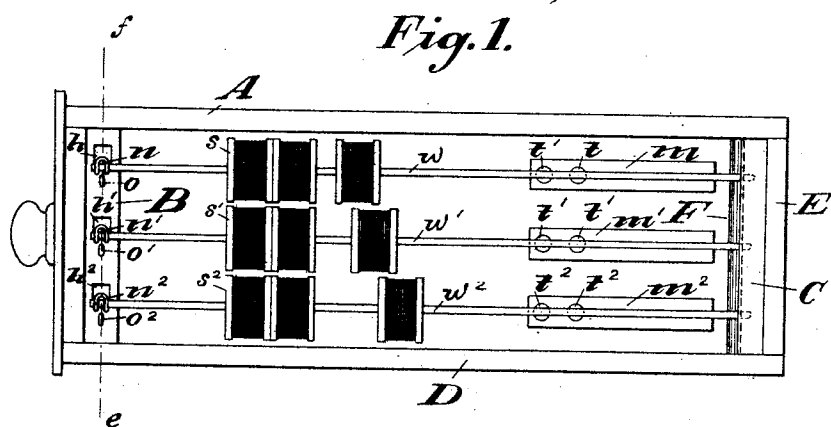


(No Model.)

J. M. PIERRE.
SPOOL HOLDER.

No. 473,080.

Patented Apr. 19, 1892.



Witnesses
A. L. J. J. J.
Geo. F. F. F.

Joseph M. Pierre Inventor
By his Attorneys Chapin & Denny

UNITED STATES PATENT OFFICE.

JOSEPH M. PIERRE, OF FORT WAYNE, INDIANA.

SPOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 473,080, dated April 19, 1892.

Application filed December 24, 1891. Serial No. 416,029. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH M. PIERRE, a citizen of the United States, residing at Fort Wayne, in the county of Allen, in the State of Indiana, have invented certain new and useful Improvements in Spool-Holders; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in spool-holders for exhibiting, protecting, and securing spool-silk, and is specially designed for use in ordinary spool-cabinets.

The object of my improvement is to provide a spool-holder for spool cases or cabinets on which the spools and their contents can be readily displayed or examined and conveniently removed without fraying the silk and on which the spools can be so arranged as to be secure against displacement or derangement by the violent shaking or the overturning of either the cabinet or the drawer in which my improvement is adjusted and used. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a spool-cabinet drawer in which my improvement is adjusted. Fig. 2 is a vertical section of the same through the rod or wire w^2 seen in Fig. 1. Fig. 3 is a vertical section of the same on the line $e f$ in Figs. 1 and 2.

Similar letters refer to similar parts throughout the several views.

In Fig. 1, A is a drawer for a thread-cabinet of well-known construction, into which my improvement is adjusted. The rods $w w' w^2$, of suitable material and of proper size for the convenient adjustment of spools $s s' s^2$ thereon, are secured to the fulcrum F and regulated in the range of their upward movement by the stop C when operated by the springs $m m' m^2$, which are secured to the bottom D of drawer A by suitable rivets $t t' t^2$. B is a shelf, of proper height, upon which the other extremity of rods or spool-supports $w w' w^2$ rest and to which they may be secured by means of the automatic spring-catches $n n' n^2$ and the

curved guides $o o' o^2, h h' h^2$ being the slots in shelf B, in which springs $w w' w^2$ play.

In Fig. 2 is shown in vertical section the rod w^2 , preferably of the proper-sized wire, curved or coiled about the fulcrum F, with the coiled end of said rod so arranged as to engage the spring m . The stop C is secured to the end E of drawer A. The shelf B, having the spring-catch n^2 secured thereto, is of such a height from the bottom D that the spools s^2 will not at any time touch said bottom and of such a height that the rod w^2 , when fulcrumed at F and secured by catch n^2 , will be parallel with bottom D.

In Fig. 3 is a detailed view showing the manner in which the free ends of rods $w w' w^2$ are engaged and secured by the springs $n n' n^2$ and the curved guides or staples $o o' o^2$, also showing the vertical slots $h h' h^2$, in which the said spring-catches play.

The manner of using and operating my improvement above described is as follows: When my improvement is adjusted in the drawer of a spool case or cabinet, preferably three or other suitable number in each drawer, with a proper number of spools adjusted thereon, said spools will be in a convenient position for display, examination, or comparison of shades and colors without handling, soiling, or fraying the silk. They are also in a secure condition for shipment in a spool-cabinet, for no ordinary amount of shaking or inverting of either the cabinet or the drawer containing my improvement will disarrange or injure the spools thereon. They are also in a most convenient position for selection of spools containing sewing silk and twist of corresponding shades or colors. When it is desirable to remove the spools from my spool-holder, a firm pressure against the top of spring n^2 , Fig. 2, will free the end of rod w^2 , when the upward pressure of spring m^2 will then carry rod w^2 and the spools thereon to the position seen in the dotted line in Fig. 2, the height to which the rod w^2 is permitted to rise being regulated by the stop C. When the rod w^2 is thus freed from the spring-catch n^2 , the spools can be readily removed or replaced at pleasure. When it is desired to replace rod w^2 in position for closing the drawer A, as seen in Fig. 1, the operator places the free end of rod w^2 upon the curved guide o^2 ,

when a firm pressure upon rod w^2 will force spring n^2 back in slot h^2 , thereby allowing rod w^2 to pass beneath spring n^2 and rest upon shelf B, where by the automatic re-engagement of spring n^2 it will be securely held in position, as seen in Fig. 3.

I am aware that a great variety of spool-holding devices are in use; but no spool-holder has ever been invented of which I am aware specially constructed and designed for exhibiting, protecting, and shipping spooled silk thread in spool-cabinets having a spool-supporting rod and an automatic spring-catch arranged and constructed as above described.

What I claim, therefore, as my invention, and desire to secure by Letters Patent, is—

A spool-holder consisting of a rod adapted

for use in a spool-cabinet drawer, said rod being pivoted or coiled on a transverse pivot in the rear end of said drawer, a spring-catch and curved guide fixed on a shelf in the front end of said drawer for engaging and securing the free end of said rod, and a spring secured to the bottom of said drawer, adapted to elevate said rod when freed from said spring-catch by engagement with the coiled end thereof, all substantially as set forth and described.

Signed by me this 22d day of December, 1891.

JOSEPH M. PIERRE.

Witnesses:

R. S. ROBERTSON,
U. H. STEWART.