F. J. TAYLOR.

Spool-Holder.

No. 160,127. Patented Feb. 23, 1875.

Fig. 1.

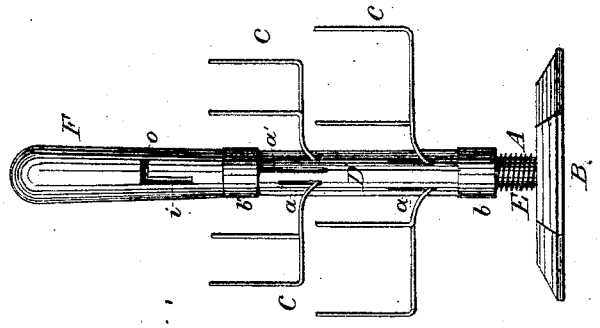


Fig. 2.

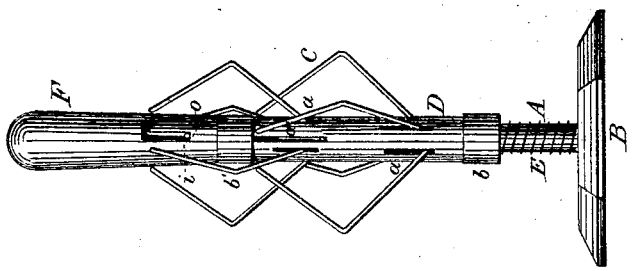
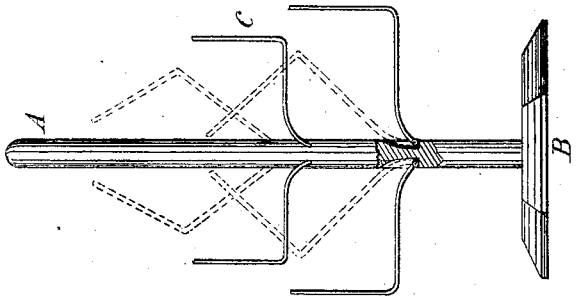


Fig. 3.



Attest:
J. B. Holderby
L. D. Scott.

Inventor:
Fred J. Taylor
per R. S. V. A. P. Lacey
Attys

UNITED STATES PATENT OFFICE.

FRED. J. TAYLOR, OF LAPORTE CITY, IOWA.

IMPROVEMENT IN SPOOL-HOLDERS.

Specification forming part of Letters Patent No. **160,127**, dated February 23, 1875; application filed December 30, 1874.

To all whom it may concern:

Be it known that I, FRED. J. TAYLOR, of Laporte City, in the county of Black Hawk and State of Iowa, 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 thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in spool-holders; and consists in the construction and arrangement of the several parts hereinafter described, and pointed out in the claims.

In the drawing, Figure 1 shows the device unfolded as in use; Fig. 2 shows it folded, and Fig. 3 shows details of construction.

A is the upright shaft. It is secured and held in position by the foot or base piece B. To it and about it are attached and arranged the several parts which compose my spool-holder. C are a series of bent arms or supports for holding the spools of thread. They are placed in rows around the shaft A, the number of rows and the number of supports in each row being determined in the discretion of the manufacturer, since I do not limit myself to the use of any particular number of rows or supports. They are so arranged that when the device is closed or folded, as hereinafter described, the arms in any lower row will not interfere with the arms of the row next above. The first or lower row is placed several inches from the foot B, in order to give space for the spiral spring, hereinafter described. The inner ends are slightly bent downward, so that when the device is folded up they will fit into the grooves in the shaft, and permit the sleeve to pass upward sufficiently to hold the arms tight. The outer ends on which the spools are placed are bent upward, and when unfolded stand vertically, as shown in Fig. 1. D is the slotted sleeve, which slides up and down on the shaft A. It may be formed in sections, either vertically or horizontally, to facilitate the putting together on the shaft and arms. It is provided with a series of slots, *a*, corresponding to the number of, and through which project, the arms C. It is also provided with the guide-slot *a'*, through which into the shaft is driven a pin, to insure vertical action of the sleeve. *b b'* are ferrules on the ends of the sleeve. They project slightly beyond the ends of the sleeve, so as to form recesses. E is the spiral spring, placed about the lower end of the shaft A. It bears on the foot B and on the end of the sleeve D within the end of the ferrule *b*. It pushes the sleeve upward and holds it firmly against the handle of the device. F is the handle. It is provided with a central round mortise, which fits loosely over the top of the shaft A, and extends to, and its end fits into, the projecting end of the ferrule *b'*. It is provided with the Γ-shaped slot *i*, in which is a guide and locking pin, *o*. The slot and pin cause the handle to move up and down in a vertical line, and permit the sleeve to be locked, as shown in Fig. 1.

When it is desired to use the device, the handle F is pressed down till the upper part of the slot *i* can be turned about the pin *o*. This will force down the sleeve, and the arms will of their own gravity fall into the position shown in Fig. 1, and the pin *o* will hold the parts securely in said position. By turning the handle so as to bring the pin *o* into the vertical part of the slot *i* and removing the pressure from the handle, the spring E will force the sleeve upward and fold the arms, as shown in Fig. 2.

When folded, the device may be packed with greater security for shipment. The folding also will hold the spools on the arms, so that said spools cannot be lost off, no difference in what position the device may be placed.

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

1. In combination with the shaft A, the arms C, sleeve D, and spring E, as and for the purpose specified.

2. The spool-holder, consisting of the shaft A, handle F, slotted sleeve D, pivoted arms C, and spring E, when constructed and arranged to operate substantially in the manner and for the purpose specified.

In testimony that I claim the foregoing as my own I hereto affix my signature in presence of two witnesses.

FRED. J. TAYLOR.

Witnesses:
F. M. THOMPSON,
LEVI KENNICOTT.