A. R. WONS.

THREAD RACK.

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1,125,622.

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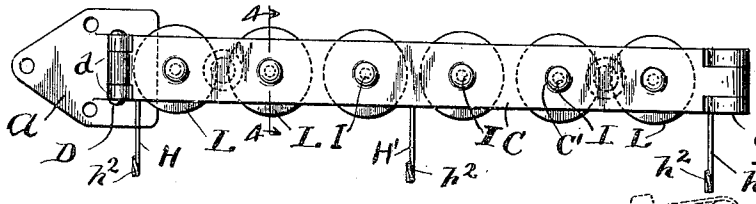


Fig. 1.

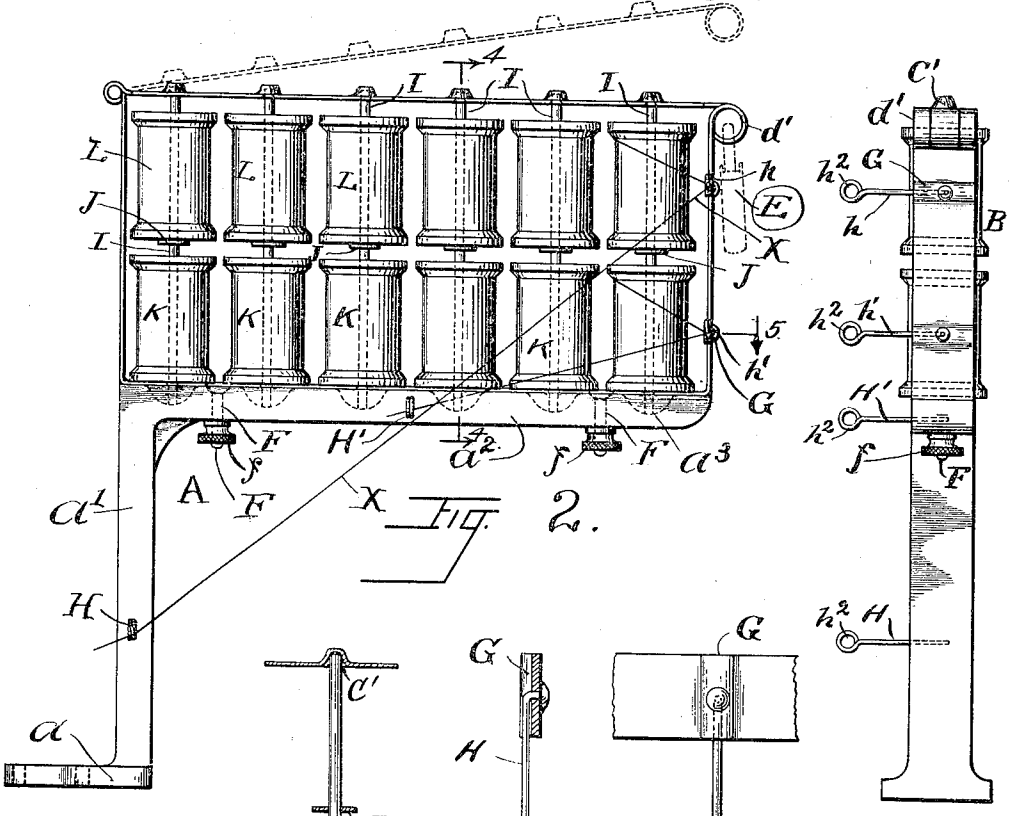


Fig. 2.

Fig. 3.

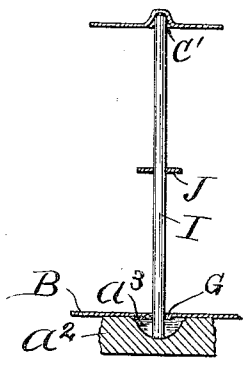


Fig. 4.

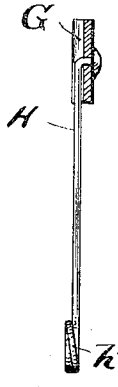


Fig. 5.

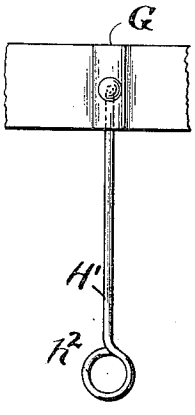


Fig. 6.

WITNESSES:

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THREAD-RACK.

1,125,622. Specification of Letters Patent. Patented Jan. 19, 1915.

Application filed March 16, 1914. Serial No. 825,085.

To all whom it may concern:

Be it known that I, ANTHONY R. WONS, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Thread-Racks, of which the following is a specification.

This invention relates to thread racks which are used to store thread which is wound on spools, and from which said spools are not required to be taken in order to use the thread therefrom.

The object of this invention is to obtain a thread rack which is portable; a thread rack in which spools containing thread usable on the upper, and also spools containing thread usable on the lower, side of material sewed in a sewing machine, may be deposited, and said thread can be used without taking said spools from said rack; and a thread rack to which a lock may be attached so that said spools cannot be taken therefrom, except by unlocking said lock.

A further object of the invention is to obtain a device which is adapted to be placed on a sewing machine table, or other table, and arranged so that any particular thread contained on a given spool may easily and quickly be put into operative or usable position.

In the drawing accompanying and forming a part of this specification Figure 1 is a top plan view of the device embodying this invention. Fig. 2 is a side elevation of said device. Fig. 3 is an end elevation of the device. Fig. 4 is a vertical section, on line 4—4 of Fig. 1, viewed in the direction indicated by the arrows. Fig. 5 is a horizontal section on line 5, of Fig. 2, viewed in the direction indicated by the arrow. And Fig. 6 is a view of a portion of the end of the device, on an enlarged scale from Fig. 3, but viewed in the same direction.

A reference character applied to designate a given part indicates said part throughout the several figures of the drawing, wherever the same appears.

A is the base of the device, and is shown made of cast metal, and is provided with the foot a, the standard a^1, and the horizontal table or ledge a^2. Table or ledge a^2 is provided with grooves a^3 (see Fig. 4).

B is a frame and C is a top to frame B, hinged thereto at d. The hinge at d is shown made by cutting away portions of said frame and top at the ends thereof, and turning the parts obtained thereby into cylindrical shape, and inserting the pintle D. E E is a padlock. The other ends of said frame and top are also cut away in substantially the same way, and turned over into cylindrical shapes, (d^1), but the cylinders obtained are sufficiently large to permit the passing therethrough of the tongue of padlock E, (indicated by broken lines in Fig. 2).

F are screws or bolts which extend through holes provided therefor in the frame B and horizontal table or ledge a^2, and f are nuts on screws or bolts F. Frame B is secured to the base A by means of said screws or bolts F and nuts f. Nuts f are knurled, so as to be easily turned by the hand; and said frame is readily removed from said base by removing said nuts from said screws or bolts F.

G, G, are grooves in one of the sides of the frame B.

H, H^1 are thread guides which are secured in the standard a^1 and table or ledge a^2, respectively.

h, h^1, are thread guides similar to H, H^1 which are secured in the side of frame B.

Thread guides H, H^1 and h, h^1 are shown as made of wire turned at one end (h^2), and the thread is inserted in said guides by drawing it down between the coils of said turned ends.

I, I, are spindles on which the spools containing thread are placed, and J are annular flanges on said spindles.

The bottom of frame B is provided with holes A^3, and the hinged top C is provided with the recesses C^1, in which holes and recesses the ends of the spindles I fit loosely, or tightly, as preferred. When said spindles are in said holes and recesses and the top C is closed as illustrated in Fig. 2, (by full lines), said spindles cannot be removed from the frame, nor can any of the spools K, L, placed thereon be removed.

One manner in which the device may be used is by placing spools containing thread to be used in the needle of a sewing machine on the lower halves of said spindles, as said spools K, and placing spools containing thread to be used in filling the shuttle of the machine, on the upper halves of the spindles, as spools L. All the spindles may contain thread of the same kind, and number, and said thread may all be of one color, or of various colors. When a thread on a

given spool is to be used the end of said thread is loosened from its spool and threaded in the guides H, h, or H^1, h^1, as required. It will be found that the thread X which is threaded in guides H, h, will be delivered from said guide H directly to the bobbin of the machine, when said bobbin is mounted in the ordinary winding mechanism on sewing machines; and it will be found that thread passing through and delivered from guides h^1, H^1, will be so delivered directly to the tension device of said sewing machine. When any, some, or all of the spools in the device are emptied of the thread thereon the device can be detached from the table on which it is secured; or, and preferably, the frame B can be detached from the base A by taking off the nuts f, and said frame can be taken to the source of supply of said thread; the padlock E can be removed, and a new supply of spools of thread be taken on the spindles.

Any number of duplicate frames B may be used alternately, on base A. By this means the loss, either permanent or temporary, of a spool of thread is obviated and the amount of work which can be done on a given sewing machine is increased, without increase of exertion of the operator of the machine.

I claim;—

1. A thread rack comprising a base having a standard, and a horizontal table, said table provided with recesses on the upper face thereof adapted to receive projecting ends of spindles, in combination with a frame comprising a bottom, sides, and a top, said top hinged to the upper end of one of said sides, means to lock said top in a closed position, spindles, said bottom provided with means to hold the lower ends of said spindles and said top provided with recesses to hold the upper ends of said spindles, annular flanges on said spindles, and guides for thread.

2. A thread rack comprising a base having a standard and a horizontal table, in combination with a frame removably mounted on said horizontal table, said frame comprising a bottom, a top and sides, said top hinged to one of said sides, the free end of said top and the upper end of the remaining side adapted to interlock and respectively provided with apertures to receive the tongue of a padlock, with thread guides attached to said base and frame; spindles, respectively provided with an annular flange and means to hold said spindles in said frame, said means comprising recesses in said top adapted to hold the upper ends of said spindles.

Signed at Chicago, Cook county, Illinois, this 12th day of March, 1914.

ANTHONY R. WONS.

In the presence of—
CHARLES TURNER BROWN,
CHAS. MUSKET.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."