(No Model.)

J. H. GRIFFITH.

SPOOL HOLDER.

No. 567,743. Patented Sept. 15, 1896.

Fig. 1.

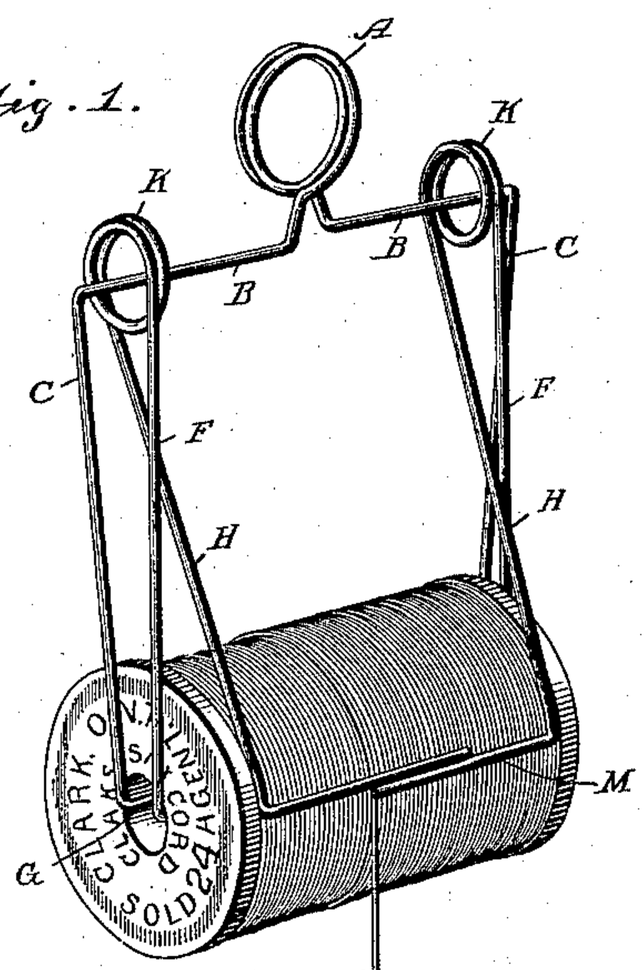


Fig. 2.

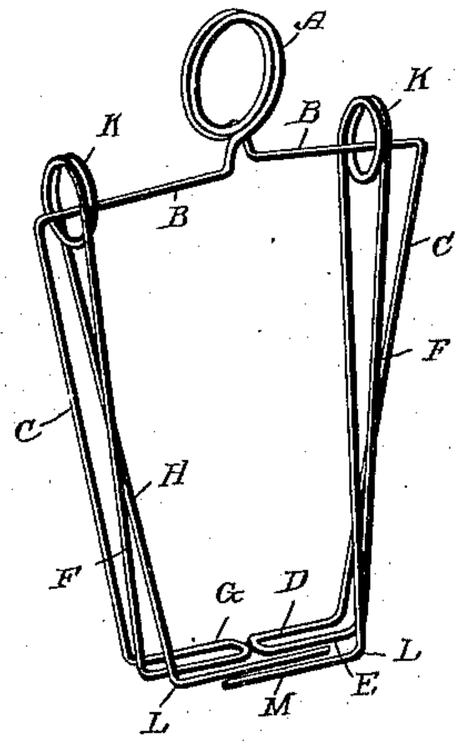


Fig. 3.

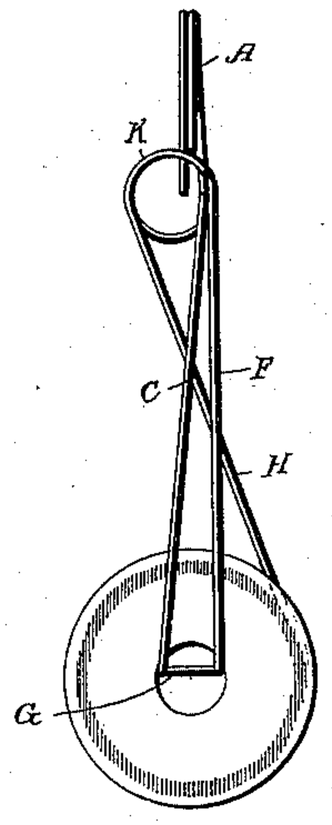
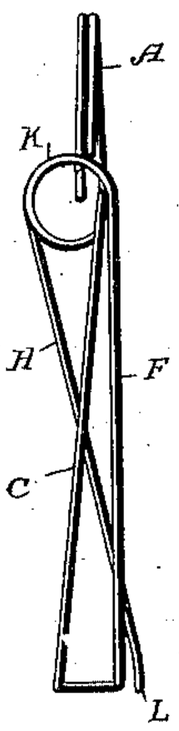


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SPOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 567,743, dated September 15, 1896.

Application filed March 18, 1896. Serial No. 583,830. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. GRIFFITH, residing at Zanesville, in the county of Muskingum and State of Ohio, have invented a new and Improved Spool-Holder, of which the following is a specification.

This invention is an improved spool-holder, the object being to prevent the thread from unraveling from the spool after the end has been disengaged from the slit in the top or head of spool.

Another object is to provide a holder device which can be applied to either a large or small sized spool and will effectively hold the free end of the thread tight upon the spool.

Another object is to provide a holder device in which there will always be a uniform tension both upon the spool and thread, and a still further object is to provide an excedingly cheap and simple form of device, inasmuch as it is formed of a single piece of thin metal wire.

With these various objects in view my invention consists in the peculiar construction of the various parts and in their novel combination and arrangement, all of which will be fully described hereinafter, and pointed out in the claim.

In the drawings forming a part of this specification, Figure 1 is a view showing the invention in use. Fig. 2 is a view showing the tension device detached from the spool. Fig. 3 is a side view of the spool with tension device attached, and Fig. 4 is a similar view of the device detached from the spool.

In carrying out my invention I employ a thin piece of elastic wire, preferably of brass or steel and of No. 16 grade, said piece of wire being usually about twenty-seven inches in length. This piece of wire is bent centrally in the form of a coil at A, and from said central coil or eye the wire extends in opposite directions, as shown at B, thereby providing the upper member of the device. The wire is then bent down at C, approximately at right angles to the top member B, and is carried down a definite distance, when it is bent inward at D, then back upon itself and outward again at E, and then upward at F, thus providing the arbors G, which enter the bore in the spool and hold the tension device thereto.

It will be noticed that the side members are sprung slightly toward each other, and they are normally held in this position by means of the central coil A, and no matter whether the device is attached to a large or small spool the spring-coil will always maintain a tension upon the sides, and thus securely hold the arbors in their proper position in the bore of the spool.

After the wire has been bent upon itself to form the arbors it is carried up, providing another side member F, and is then coiled several times around the upper member B, thereby providing spring-tension coils K, and after producing such coils the wire is continued down to a point approximately parallel with the arbors, when the ends are bent inwardly toward each other at a right angle at L, providing the tension or pressure arms M, which bear directly upon the thread on the spool, such tension or pressure arms preferably overlapping each other, as shown, in order to exert a pressure or tension upon all of the threads, and by making the arms somewhat long and overlapping, as shown, I am enabled to use the tension device upon either a long or short spool of thread.

In operation the arbors are sprung into the ends of the spool and the tension or pressure arms rest directly upon the threads and are continually held there by means of the spring-tension coils K K.

It will thus be seen that I provide an exceedingly cheap, simple, and durable form of tension device which can be applied to either a large or small spool, and one which will continually exert a tension or pressure upon both the spool and thread.

The tension coil or eye A, besides serving to create a tension upon the side members, can also be utilized to suspend the device and spool, if so desired.

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

An improved spool-holder formed of a single piece of wire, and essentially rectangular in shape, and comprising an upper member having a central coil or eye, the double side members arranged at right angles to the top member, said side members having inwardly-ex-

tending arbors at their lower ends, one of said side members being directly connected to the upper member and the other side member being coiled about said upper member and the right-angled tension-arms extending from the coils about the upper member and arranged substantially parallel with the side members and arbor, substantially as shown and described.

JAMES H. GRIFFITH.

Witnesses:
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