(No Model.)

# F. S. WILLIAMS.

## THREAD HOLDER AND CUTTER.

No. 255,745. Patented Mar. 28, 1882.

Fig: 1.

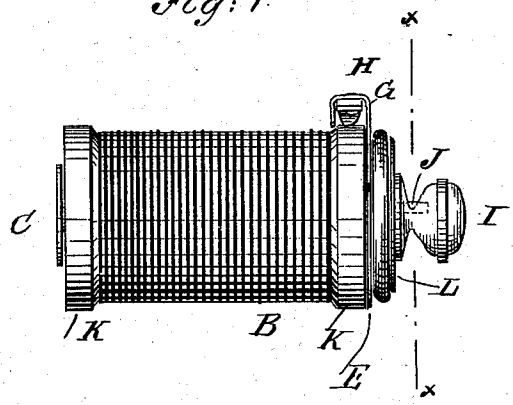



Fig: 2.

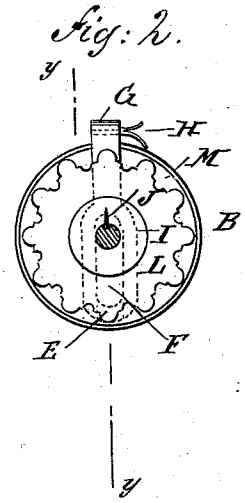



Fig: 3.

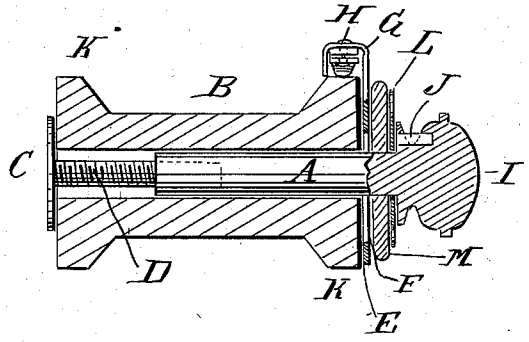
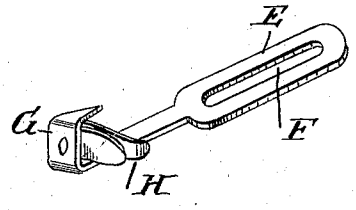



Fig: 4.




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# UNITED STATES PATENT OFFICE.

FRED S. WILLIAMS, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND CORNELIUS V. SHADDLE, OF SAME PLACE.

## THREAD HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 255,745, dated March 28, 1882.

Application filed January 3, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FRED S. WILLIAMS, of the city, county, and State of New York, have invented a new and Improved Thread Holder and Cutter, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for facilitating cutting thread that has been unwound from a spool, and to prevent the rest of the thread from unraveling from the spool.

The invention consists in a head provided with a knife for cutting the thread, and with a rod or stem passing into one end of the spool and held in the same by a threaded stem passed into the other end of the spool and screwed into the inner end of the stem of the head. This head holds a friction-plate or slotted plate or strip provided at the end with a thread-holding clamp on the end of the spool.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation of a spool of thread provided with my improved holder and cutter. Fig. 2 is a cross-sectional elevation of the same on the line *x x*, Fig. 1. Fig. 3 is a longitudinal sectional elevation of the same on the line *y y*, Fig. 2. Fig. 4 is a perspective view of the adjustable plate provided at the end with the thread-holding clamp.

A rod, A, adapted to pass into the longitudinal aperture of a thread-spool, B, is provided at its inner end with a threaded aperture and at its outer end with a button or head, I. A circular or other plate, C, is provided with a projecting stem, D, which is threaded. The rod A is passed into one end of the aperture of the spool, and the stem D is passed into the other end of this aperture, and the end of the stem is screwed into the threaded aperture in the inner end of the rod A, thereby holding both parts in the spool. A plate or strip, E, provided with a longitudinal slot, F, has one end bent toward the other end of the strip, thereby forming a hook, G. To the central part of this hook a spring-clamp, H, is fastened, formed of two flat pieces of spring material resting against each other. The button or head I is provided with a small blade or knife, J, securely fastened in this head, and preferably extending across an annular groove of this head, as shown. The slotted strip E is placed upon one end of the spool B in such a manner that the point of the hook G will rest against one of the circular end flanges, K, of the spool. The rod A is passed through the washer-plate L, preferably having its edge scalloped or serrated, and through a friction plate or disk, M, made of rubber, felt, or other like suitable material, and then the rod A is passed through the slot F of the plate or strip E and into the spool. The stem D is then screwed into it, whereby all the parts will be held together and on the spool. The desired length of thread is unwound from the spool, and the thread is then passed in between the spring-jaws of the clamp H, or between the friction-plate L and the end of the spool, which both hold the thread firmly and prevent the rest of the thread on the spool from unraveling. That part of the thread that has been unwound from the spool is passed around the head I and then pulled, whereby the thread will be pressed on the sharp edge of the knife J with sufficient pressure to cause this knife to cut the thread.

The plate E, provided with the clamp H, may be used with the rod A, the head, and knife, and the friction-plate L may be dispensed with; or the plate E can be dispensed with and the friction-plate M only be used with the other parts. The end of the thread will always be held, and the thread that has been unwound can be cut very rapidly.

The slotted plate E will fit spools of various sizes.

The rods or stems A and D can also be adjusted according to the various sizes of the spools.

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

1. The rod A, having the head I at one end and threaded aperture at the other, in combination with a plate, C, having a threaded stem, D, adapted to screw into the aperture end of rod A, whereby the device may be used in connection with a spool, as described.

2. In a thread holder and cutter, the combination, with the button or head I, provided with a knife or blade, J, of the slotted plate

E, provided at one end with a hook, G, and a thread-clamp, H, substantially as herein shown and described, and for the purpose set forth.

3. The combination, with a rod fitting into a spool and a threaded stem adapted to be screwed into the inner end of the rod, of a thread-holding device held on the spool by the head of the rod, substantially as herein shown and described, and for the purpose set forth.

4. The combination, with the rod A, provided with a button or head, I, of the stem D, projecting from a plate, C, and the friction-plate N, substantially as herein shown and described, and for the purpose set forth.

FRED S. WILLIAMS.

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