No. 690,400. Patented Jan. 7, 1902.

J. F. CORDES.

THREAD CUTTING ATTACHMENT FOR SPOOLS.

(Application filed Nov. 23, 1900.)

(No Model.)

Fig. 1.

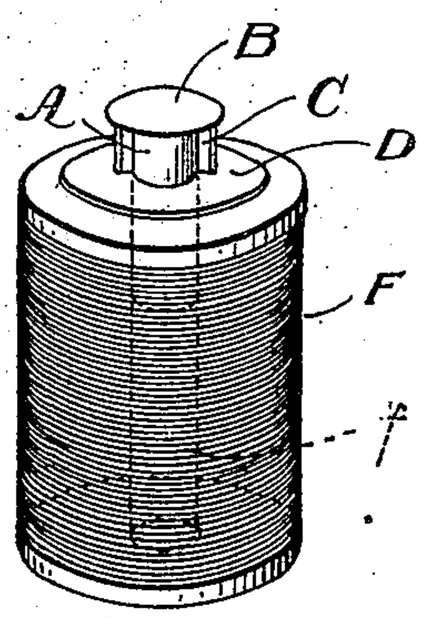


Fig. 2.

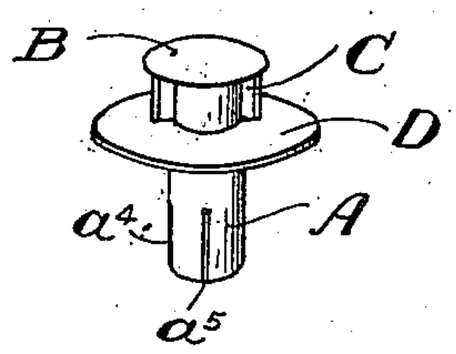


Fig. 3.

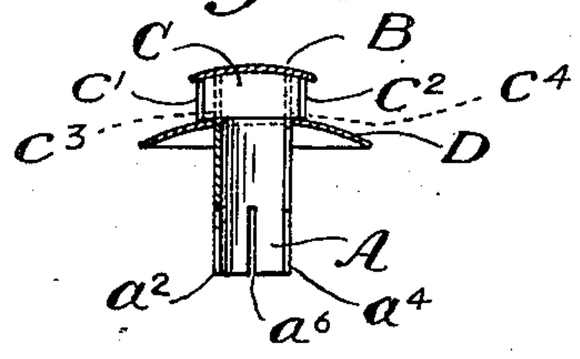
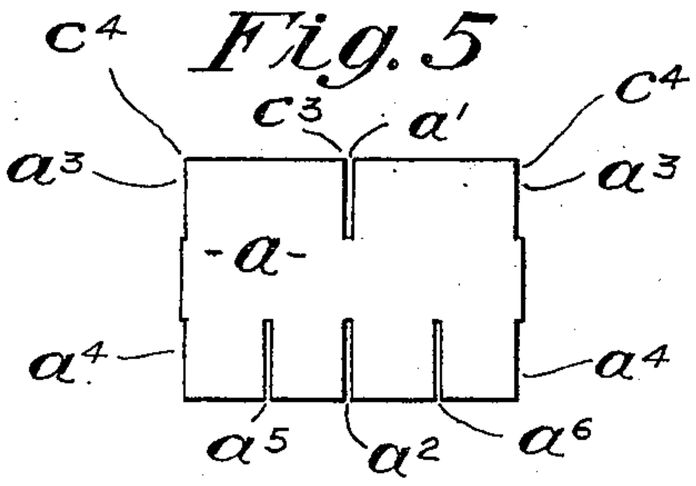


Fig. 4.

Fig. 5



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THREAD-CUTTING ATTACHMENT FOR SPOOLS.

SPECIFICATION forming part of Letters Patent No. 690,400, dated January 7, 1902.

Application filed November 23, 1900. Serial No. 37,439. (No model.)

To all whom it may concern:

Be it known that I, JOHN FERDINAND CORDES, 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-Cutting Attachments for Spools, of which the following is a specification.

My invention relates to thread-cutting devices of the class which are adapted for attachment to spools, whereby the thread after being unwound from the spool may be cut off at any required length; and the object of my invention is to so cheapen the construction of the device that it may be brought into extensive use and to provide such device with a knife secured in a novel manner to the shell without soldering or being held in place by separate fastening devices, which are not desirable, as will hereinafter appear in the accompanying detailed description of its construction and claims, and with reference to the accompanying drawings, illustrating my invention, wherein—

Figure 1 is a perspective view of a spool of thread, showing my improved attachment connected thereto; Fig. 2, a perspective view of the attachment removed from the spool; Fig. 3, a vertical enlarged section of the attachment in the same plane with that of the knife; Fig. 4, a correspondingly-enlarged side elevation of the knife detached, and Fig. 5 a correspondingly-enlarged side elevation of a plate of sheet metal stamped out to form a blank for the barrel of the attachment.

The thread-cutting attachment consists of a barrel A, secured in a suitable manner at its upper end to a cap B, which latter extends sufficiently beyond the diameter of the barrel A to completely protect a knife-blade C, which passes diametrically through said barrel, at the upper end thereof, and projects beyond the same and is provided at its outer ends with sharpened edges c' c^2, against which the thread may be wrapped and drawn to sever it any required distance from the end thereof.

The barrel A of the attachment also has a dished disk D, with a central hole therein through which the barrel passes and is made to fit tightly thereon and is preferably secured fixedly thereto in a suitable manner. The barrel is made of a single sheet or blank of metal a, (see Fig. 5,) having slits a' a^2, respectively, in the same vertical line, each to extend about one-third the width toward the middle thereof, and the ends of the said blank have vertical portions a^3 a^4 cut away therefrom respectively at the upper and at the lower ends of said blank and at corresponding distances toward the middle thereof and opposite to the said slits a' a^2, thus providing a blank which when made cylindrical will provide a closed slot c^3 upon one side and a split slot c^4 diametrically opposite thereto and upon the open side of the barrel, thus to receive the knife C freely through the closed slot and embrace and bind the said knife upon the open side of the said barrel when the disk D is forced thereon, and thus securely clamp the knife and hold it in a fixed position below the cap B without the employment of rivets or pins and without the use of solder, which would be slow to apply, and the heat employed thereby would draw the temper of the knife. The knife when thus held may be easily removed for regrinding it by withdrawing the barrel from the hole in the disk. The lower slits a^2 a^4 a^5 a^6 will give freedom to the lower end of the barrel to admit of its being forced into the hole f of a spool F and expanding therein sufficiently to tightly hold the attachment to the spool, and when the latter is pushed therein until the disk D rests upon the top of the spool the end of the thread after being cut may be drawn between the disk and the end of the spool and be securely held thereby.

The cap B may have a central hole therein (not shown) to allow the spindle of a spool-holder to pass completely through the attachment and may consist of a solid ring driven onto the split upper end of the barrel and fitting tightly thereon and will be thus held without the use of solder.

The several parts composing the attachment may thus be stamped out from sheet metal very cheaply and assembled and secured together so rapidly that the cost of the same is so little that the name of the manufacturers may be stamped in a suitable manner upon them, and they may be given away for advertising purposes.

The thread is easily and quickly severed at the exact length required by first wrapping the thread loosely a sufficient number of times around the upper end or neck of the barrel, between the cap and the disk, and against the ends of the knife until a sufficient length of thread is left at the end thereof, and the thread is then drawn tightly against the knife and severed.

I claim as my invention and desire to secure by Letters Patent—

1. A thread-cutting attachment for spools comprising a barrel, adapted to fit into a spool-hole, a cap at the upper end thereof, a knife secured diametrically upon said barrel to project therefrom at its ends, and a disk fitted upon the barrel below the knife, substantially as described.

2. A thread-cutting attachment for spools, comprising a barrel split from end to end having longitudinal slits therein at the upper end to receive the knife and at the lower end to allow the barrel to grip the spool, a knife held in the slits at the upper end of the barrel and a disk fitted upon the barrel to grip the knife and hold it thereon, substantially as described.

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