No. 889,750. PATENTED JUNE 2, 1908.

L. J. BONAR.

SPOOL ATTACHMENT.

APPLICATION FILED NOV. 16, 1907.

Fig. 1.

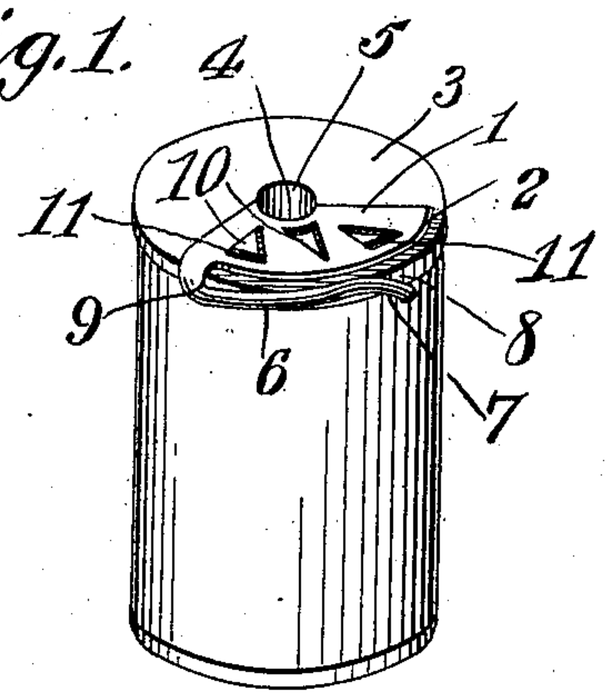


Fig. 2.

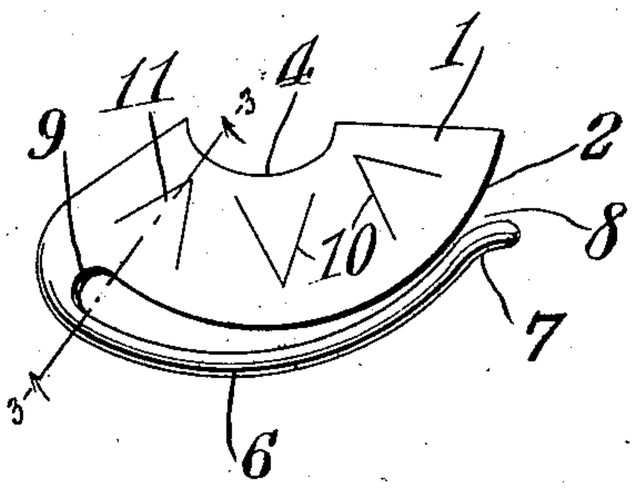


Fig. 3.

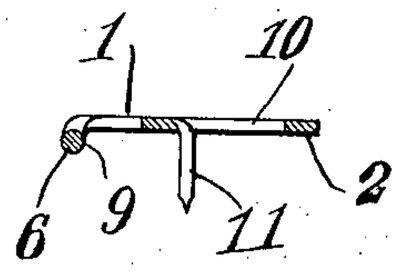
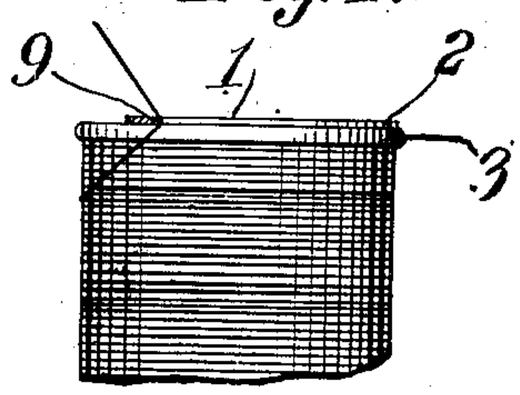


Fig. 4.



Witnesses

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SPOOL ATTACHMENT.

No. 889,750. Specification of Letters Patent. Patented June 2, 1908.

Application filed November 16, 1907. Serial No. 402,517.

To all whom it may concern:

Be it known that I, LOUISE J. BONAR, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented new and useful Improvements in Spool Attachments, of which the following is a specification.

This invention relates to spool attachments, the object of the invention being to provide an article of the class described in the nature of a combined thread holder and cutter for holding the thread and preventing the same from unwinding from the spool and also for cutting the thread after the desired length of thread has been unwound from the spool.

One of the principal objects of the invention is to provide an exceedingly simple and cheap article of the class referred to which may be fastened quickly to any spool of cotton or thread and which may form a permanent attachment to the spool and sold therewith without increasing the market price of the spool of cotton, the device thus forming a valuable advertising adjunct.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts hereinafter fully described, illustrated and claimed.

In the accompanying drawings, Figure 1 is a perspective view showing the attachment applied to a spool. Fig. 2 is a plan view of the device *per se*. Fig. 3 is a cross section through the same on the line 3—3 of Fig. 2. Fig. 4 is a detail elevation showing the engagement between the thread and the attachment.

The attachment contemplated in this invention may be stamped out of a single blank of sheet metal and in its preferred embodiment, the attachment comprises a segmental attaching plate 1 having an arcuate outer edge 2 of approximately the same radius as the outer periphery of the head 3 of the spool to which the attachment is fastened, the plate also having an arcuate inner edge 4 which registers approximately with the hole 5 of the spool. The attaching plate 1 thus lies entirely to one side of the center of the spool and preferably with its outer arcuate edge 2 arranged slightly within the outer periphery of the head of the spool as indicated in Fig. 1.

The attachment also comprises a spring arm 6 forming a thread clasp between which and the edge 2 or the edge of the spool head 3 the thread is caught and frictionally held so as to prevent the same from unwinding from the spool. The spring arm 6 is described on an arc of greater radius than the arc on which the outer edge 2 of the attaching plate is described, and the extremity of the spring arm is deflected outward as shown at 7 to form a flaring entrance throat 8 to receive the thread. The different arcs on which the arm 6 and edge 2 are described result in bringing an intermediate portion of the arm 6 closer to the edge 2 than the end portions of the arm, so that after the thread has been caught and held by the arm 6 it may still be carried onward to the point of junction between the arm 6 and the attaching plate 1 and at this point of junction the inner edge is sharpened as shown at 9 to form a thread cutter. It is only necessary to drag the thread out of frictional engagement with the arm 6 and direct the same against the cutting edge 9 whereupon the thread is severed and the loose end of the thread will then be carried again between the spring arm 6 and the attaching plate 1 or head of the spool where it will be held until needed further.

In order to fasten the attachment securely to the spool, the attaching plate is provided with a plurality of V-shaped cuts 10 and the portions of the plate bounded by said cuts are bent downward to form teeth 11 which are driven into the wooden head of the spool, thereby securely anchoring the attachment as a whole to the head of the spool.

In the preferred embodiment of the invention, while the plate 1 is left perfectly flat, the arm 6 is preferably worked up so as to render the same round or substantially so in cross-section, and the extreme point of said arm is also rounded off to prevent the same from scratching, cutting or otherwise injuring the hand or fingers.

Having thus fully described the invention, what is claimed as new is:—

1. A spool attachment comprising an attaching plate having an arcuate outer edge, and a thread holding spring arm extending lengthwise of the outer edge of said plate and described on an arc of greater radius than the said outer edge.

2. A spool attachment comprising an attaching plate having a curved outer edge, a curved thread holding spring arm extending lengthwise of said curved outer edge and diverging therefrom, and a thread cutter at or near the junction between the arm and attaching plate.

In testimony whereof I affix my signature in presence of two witnesses.

LOUISE J. BONAR

Witnesses:
HENRY HOLT,
ISABELL BONAR.