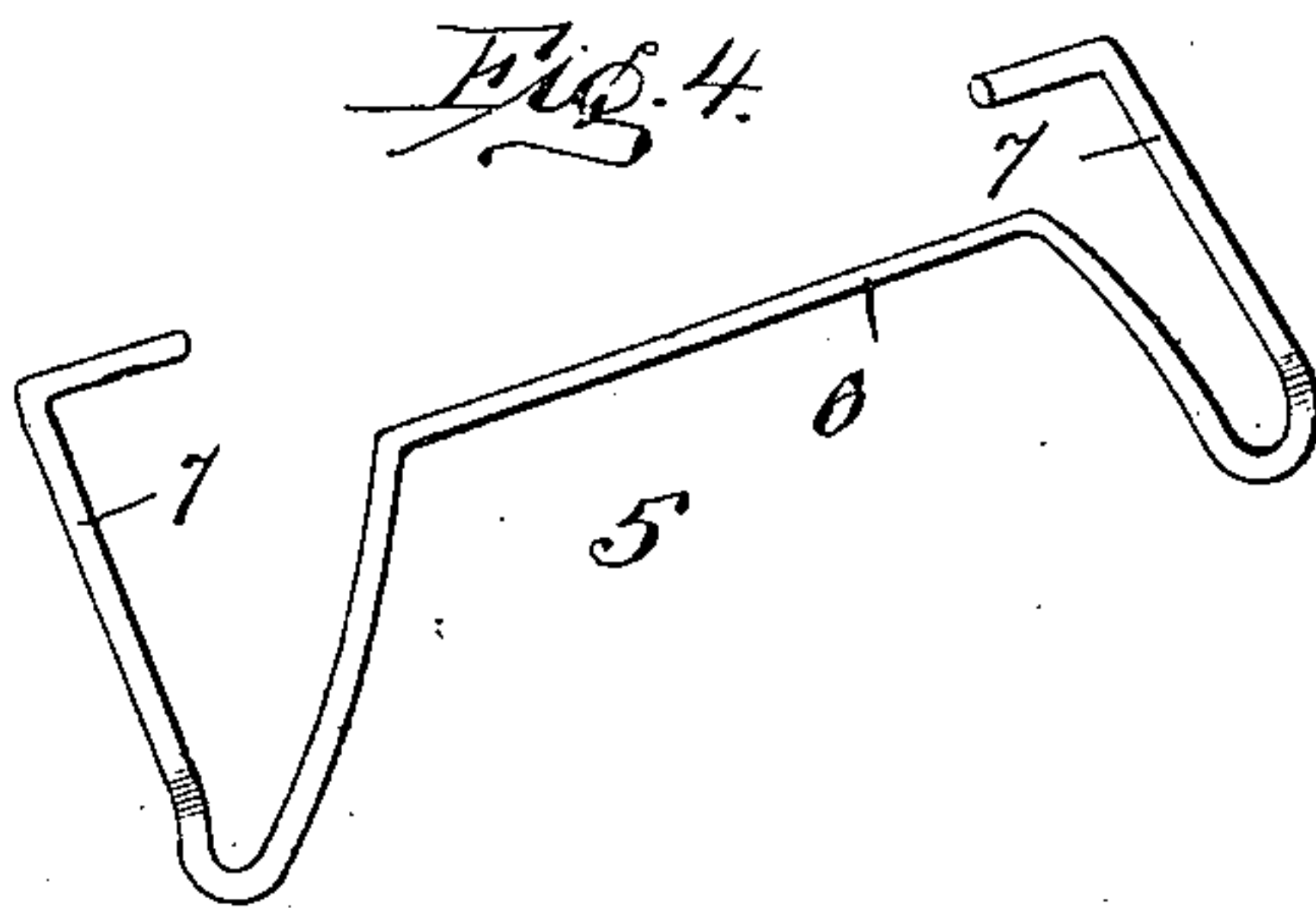
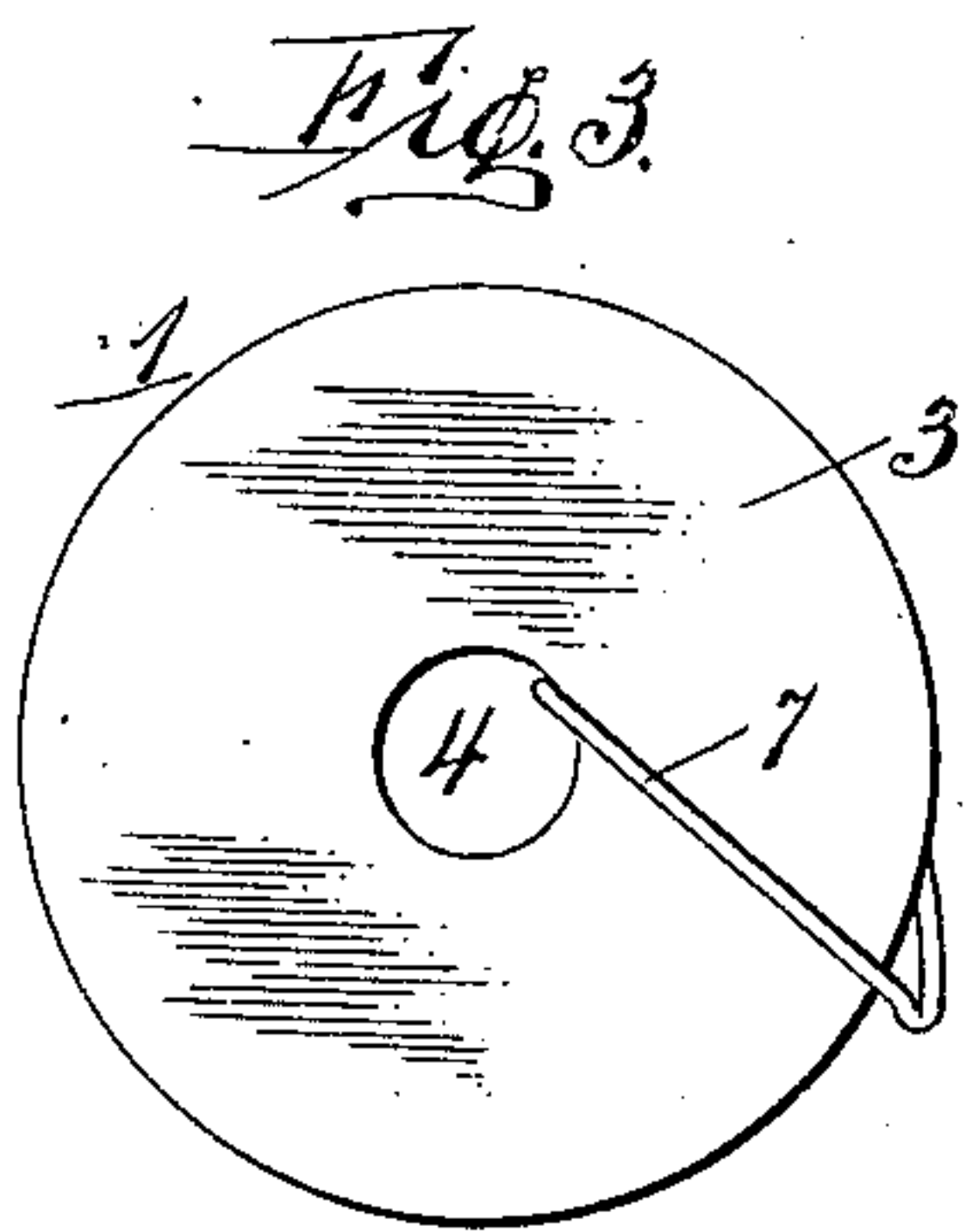
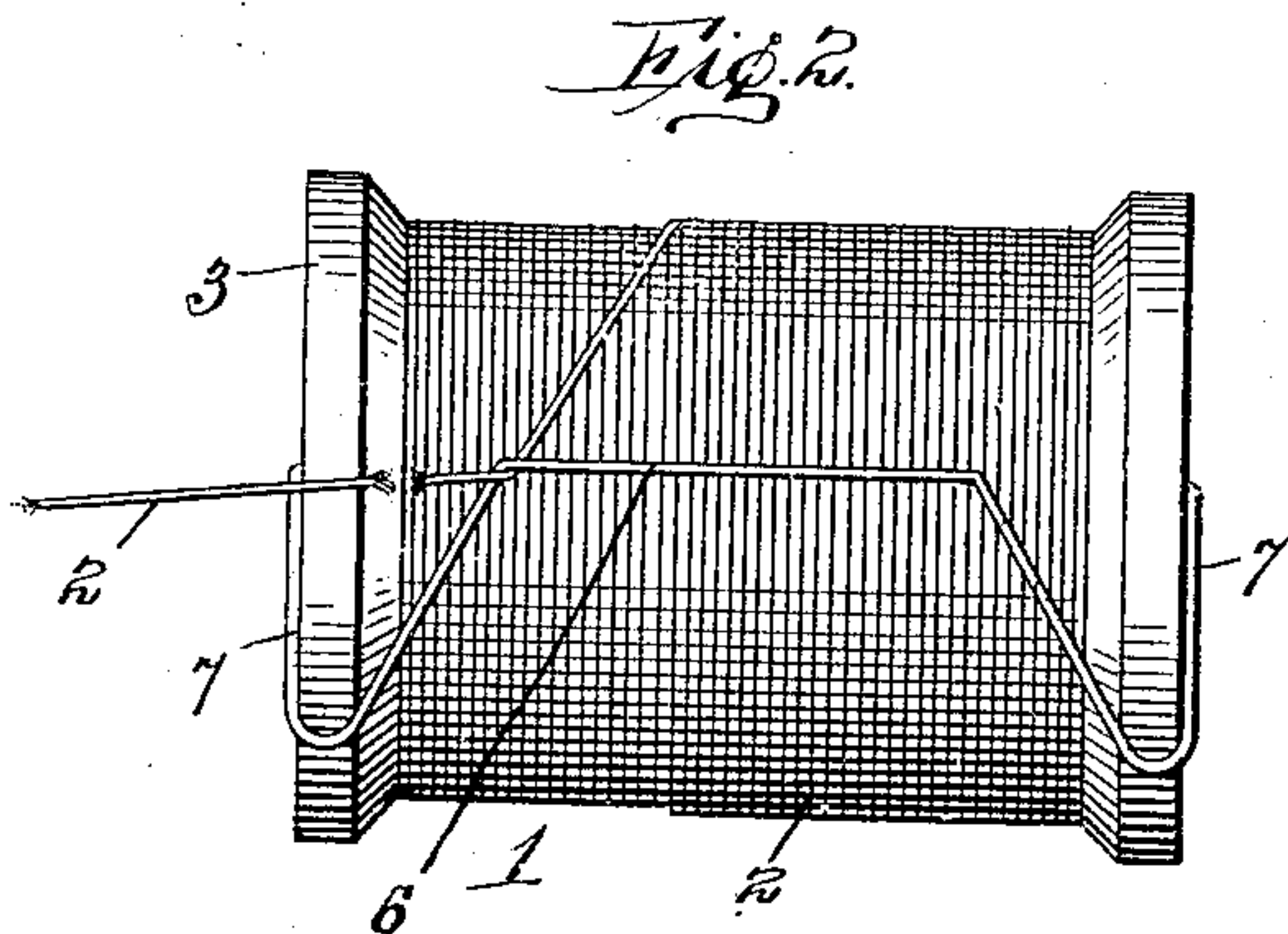
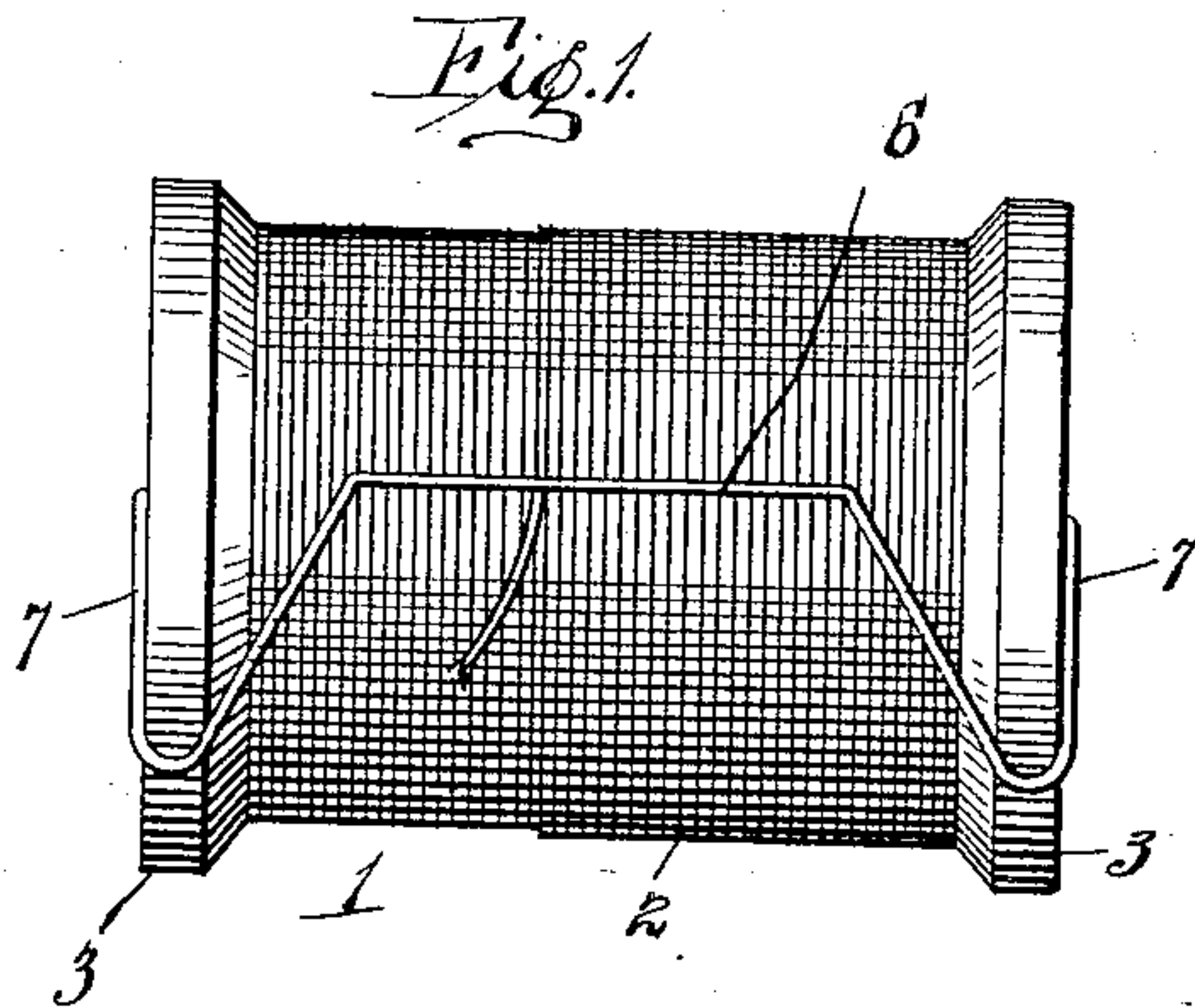


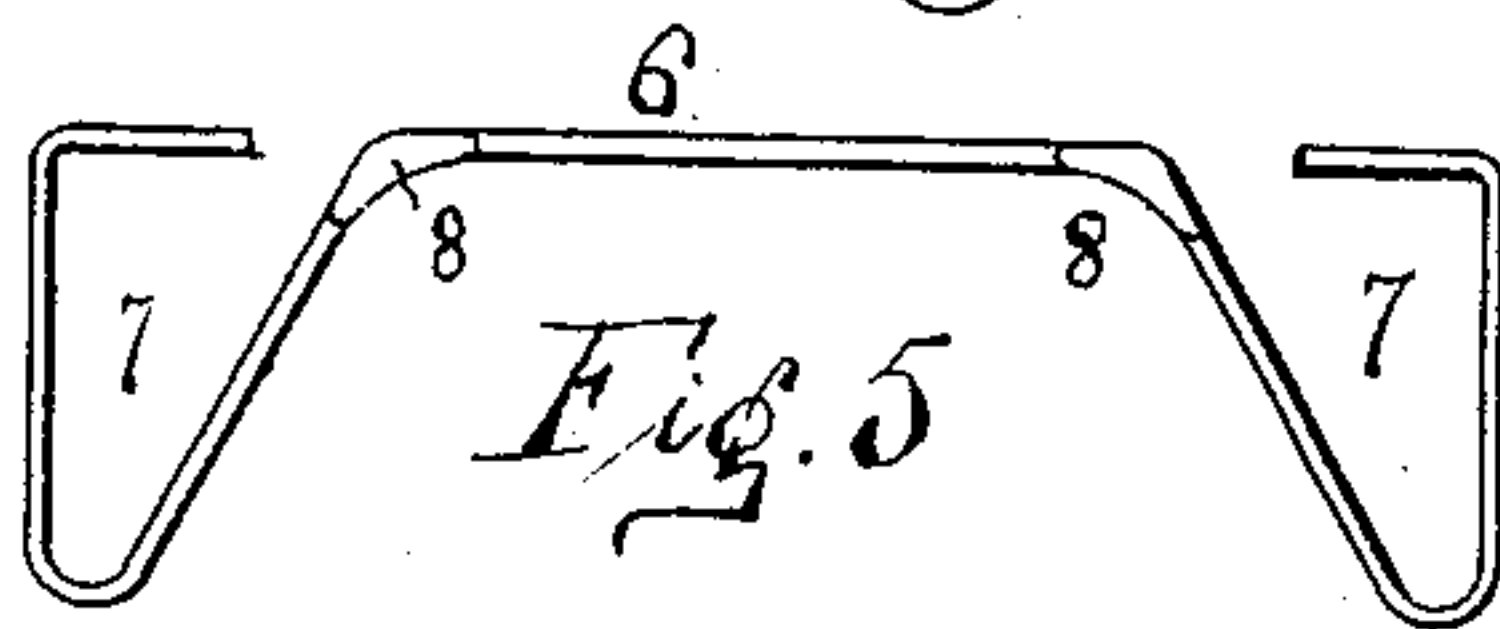
No. 870,478.

PATENTED NOV. 5, 1907

W. I. STAAF.  
SPOOL ATTACHMENT.  
APPLICATION FILED JULY 26, 1906.



Witnesses:  
Jesse E. Miller.  
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# UNITED STATES PATENT OFFICE.

WERNER I. STAAF, OF PITTSBURG, PENNSYLVANIA.

## SPOOL ATTACHMENT.

No. 870,478.

Specification of Letters Patent.

Patented Nov. 5, 1907.

Application filed July 26, 1906. Serial No. 327,876.

To all whom it may concern:

Be it known that I, WERNER I. STAAF, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Spool Attachments, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to certain new and useful improvements in thread holders, and the invention has for its primary object the provision of novel means for retaining the end of a thread in engagement with a spool upon which it is wound and also providing means for readily severing the thread when required.

Another object of this invention is to provide a simple and inexpensive attachment for a spool of thread which will prevent the thread from becoming entangled or unwound from the spool.

To this end, I have devised a spool attachment consisting of a piece of wire bent to engage in the central opening of a spool, and upon the thread wound upon the spool, said wire normally holding the end of the thread in its wound course, but permitting of any quantity of thread being removed.

The detailed construction of my improved thread holder will be presently described, illustrated and then specifically pointed out in the appended claims.

Referring to the drawing forming part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:—

Figure 1 is an elevation of a spool equipped with my improved attachment, Fig. 2 is a similar view illustrating the manner of severing the thread, Fig. 3 is an end view of the spool, and Fig. 4 is a perspective view of my improved spool attachment. Fig. 5 is a perspective view similar to Fig. 4, illustrating a modification in the construction.

In the drawing I have illustrated an ordinary spool 1 having a cylindrical body upon which thread 2 is evenly wound. The spool has peripheral end flanges 3 and a central longitudinally disposed opening 4, generally used for revolvably mounting the spool upon a sewing machine.

My invention resides in a wire attachment 5 comprising a thread holding or bearing portion 6 having

angularly disposed ends 7 adapted to embrace the flanges 3, the ends of the spool, and engage in the opening 4 of said spool. The ends 7 of the attachment frictionally engage the ends of the spool, whereby the attachment can be revolved about the spool when necessary. The portion 6 also frictionally engages the thread 2, especially the free end thereof, and prevents the thread from becoming unraveled.

When it is desired to obtain a piece of thread from the spool, the desired amount is unwound and is then pulled endwise from the spool, as clearly shown in Fig. 2, causing the thread to break, without becoming further unwound.

The wire at its threaded bearing points is flattened, as shown at 8 in Fig. 5, and the flattened portions sharpened to form knife edges over which the thread can be severed when required. The said flattened portions of wire will preferably be at the juncture of the straight bar 6 and the angular ends 7, as shown in Fig. 5.

Should the free end of the thread be of considerable length, it can be easily and quickly replaced upon the spool by simply turning the attachment upon the spool.

It is obvious that the attachment can be made of various sizes to fit upon different spools, and I wish it to be understood that such changes in the details of construction as are permissible by the appended claims may be resorted to without departing from the spirit and scope of the invention.

What I claim and desire to secure by Letters Patent, is:—

A thread holder for spools formed from a single piece of wire comprising a straight central bar adapted to bear against the thread on the spool and extended at the ends at angles to the central bar and thence bent at right angles to the bar and bearing against the ends of the spool with the terminals extending inwardly to bear in the aperture of the spool at opposite ends, said bar being flattened at the juncture of the bar and the angular portions and sharpened to form cutting means for the thread.

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

WERNER I. STAAF.

Witnesses:

H. C. EVERT,

MAX H. SROLOVITZ.