

No. 710,937.

Patented Oct. 14, 1902.

D. G. BAKER.

PACKING AND HOLDING DEVICE FOR BOBBINS, COPS, &c.

(Application filed Aug. 25, 1900.)

(No Model.)

Fig. 1.

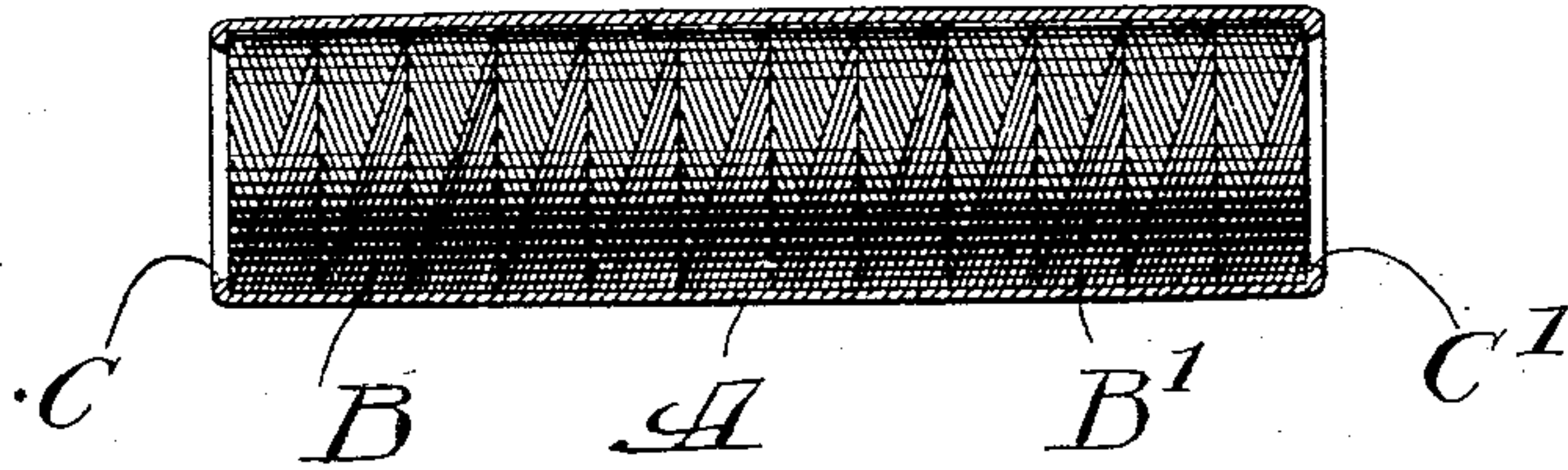


Fig. 2.

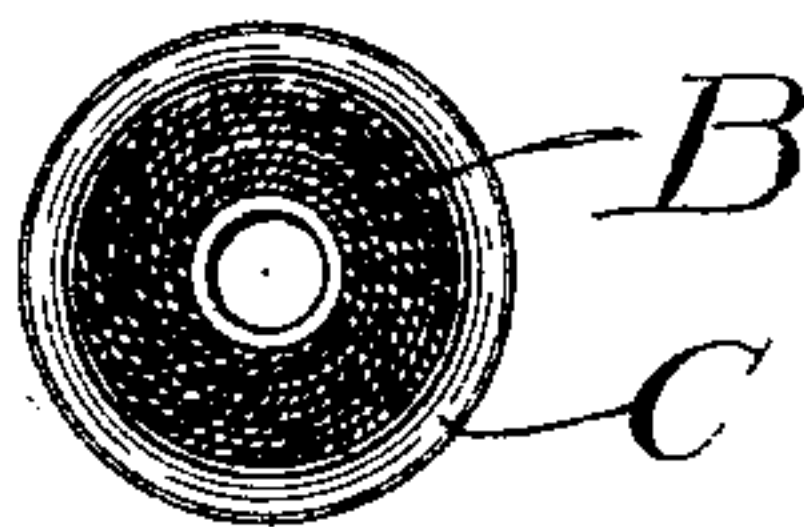
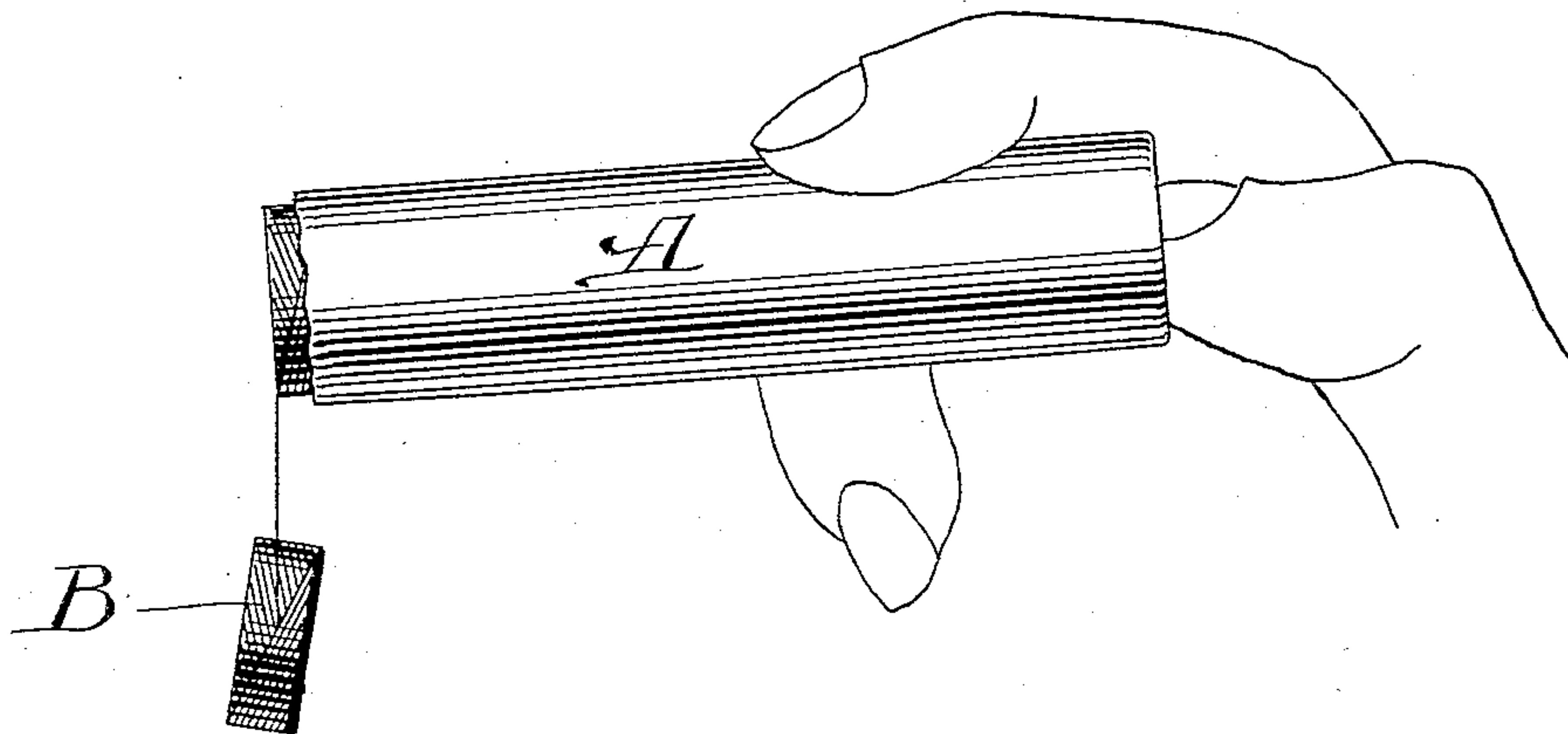


Fig. 3.



WITNESSES:

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DICKERSON G. BAKER, OF WILLIMANTIC, CONNECTICUT, ASSIGNOR TO THE AMERICAN THREAD COMPANY, OF NEW YORK, A CORPORATION OF NEW JERSEY.

PACKING AND HOLDING DEVICE FOR BOBBINS, COPS, &c.

SPECIFICATION forming part of Letters Patent No. 710,937, dated October 14, 1902.

Application filed August 25, 1900. Serial No. 27,983. (No model.)

To all whom it may concern:

Be it known that I, DICKERSON G. BAKER, a citizen of the United States, residing at Willimantic, Windham county, State of Connecticut, have invented certain new and useful Improvements in Packing and Holding Devices for Bobbins, Cops, and the Like, of which the following is a full, clear, and exact description.

My invention relates to devices for packing and holding cops or spools of thread and the like; and the object is to provide a simple and effective package for conveniently holding a series of cops so that they may not become accidentally unwound and in such manner that they may be quickly and successively removed from said holder in a convenient and simple manner.

In the past when a bobbin, cop, or spool of thread has been wound the end of the thread has been tied or otherwise secured, so as to prevent unwinding. Heretofore this has usually been done by hand and is a source of great labor and expense. Now, however, the same is avoided by the packing and holding receptacle herein described and claimed. The said packing-receptacle as applied to this art is a unique departure, and it possesses many advantages. Bobbins thus packed may be conveniently handled. They cannot become soiled or easily lost, nor can they become unwound until it is desired to use them.

In the drawings, Figure 1 illustrates in longitudinal section the packing and holding receptacle of a size adapted to carry, say, one dozen bobbins of thread. Fig. 2 is an end view of the completed device. Fig. 3 is a side elevation illustrating one method of ejecting or removing the bobbins from said receptacle.

The drawings show bobbins of practically full size, such as used in sewing-machines or the like. These bobbins are wound in immense quantities, and the labor of fastening the end of the thread of each or any bobbin is avoided by inserting said bobbins successively in a holding device such as I shall proceed to describe, whereby they are preferably frictionally engaged until it becomes desirable to remove them, which removal may be

accomplished by simply pressing against one end of the series of bobbins, causing the bobbin at the opposite end to be pushed out of the receptacle.

The packing-receptacle comprises a cylindrical tube A of a desired length, preferably made of paper or some other suitable material. B B' are cops or bobbins of thread of a size suitable to fit properly within the cylindrical tube A. When the tube is filled, the ends may be crimped, as at C C', and the contents are retained with sufficient security to prevent their becoming accidentally disengaged. Prior to inserting the bobbins into the holder it is not necessary to sever the thread between each bobbin, and consequently the necessity of tying the ends of the thread is avoided. In removing the bobbins from the holder A the user may grasp the tube A in any suitable manner and by pressing the thumb against either end the contents may be advanced, causing the desired number of bobbins to be ejected. In Fig. 3 I have illustrated this method of ejecting the bobbins. In this view one bobbin has been pushed entirely out of the holder and another one is pushed part way out, the crimped end being opened by the pressure applied by the thumb of the user. In packing bobbins in this manner they are conveniently held and need not become soiled in any way. As all holders of the type illustrated in the drawings are cylinders, the length of the same determines the capacity. The holder when made of paper or like material may bear suitably-printed words descriptive of the character, size, or other quality of the contents. The holder being substantially the same at each end, the bobbins may be ejected from either end, as desired, a feature of great convenience, particularly when it is desired to place in one holder bobbins of thread which may differ in size, color, or other quality. For example, assuming it might be desirable to pack in one holder six bobbins of black thread and six bobbins of white thread, the same might be readily done by putting the white thread at one end and the black thread at the other end, and the user might then remove either color that he wished by pressing against the

opposite end of the series of bobbins until
he forced out the bobbin of the desired color.
The crimping of the ends of the tubular
holder not only rolls over the extreme ends,
5 so that they are caused to project inwardly,
but it also tends to reduce or contract the
diameter of the tube toward the end, so that
when the bobbins are pushed out the tube,
while it momentarily opens to its full size to
10 let one or more bobbins out so long as the
pressure is continued, it tends to contract
again to frictionally retain the balance of the
bobbins within the holder. This contraction
of the tube, aside from the crimping, is only
15 very slight, but nevertheless is sufficient to
accomplish the desired end.

What I claim is—

1. A device of the character described com-
prising a cylindrical tube having the ends
20 crimped, a series of thread-bobbins nested
within said cylindrical tube, the thread on
one bobbin being a continuation of the thread
on the next adjacent bobbin.

2. The combination shown and described
consisting of a tube A contracted at one end 25
C and containing a series of connected bob-
bins B.

3. In a device of the character described,
in combination, a tube having an integral
body and open at the ends, a thread-bobbin 30
contained therein the outer layer of thread
on said bobbin bearing against the inner wall
of the tube.

4. In a device of the character described,
a cylindrical tube open at the ends only, a 35
plurality of thread-bobbins arranged end to
end within said tube the outer layer of thread
on said bobbins engaging with the inner wall
of said tube.

Signed at Willimantic this 23d day of Au- 40
gust, 1900.

DICKERSON G. BAKER.

Witnesses:

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SAMUEL M. GREEN.