

No. 776,271.

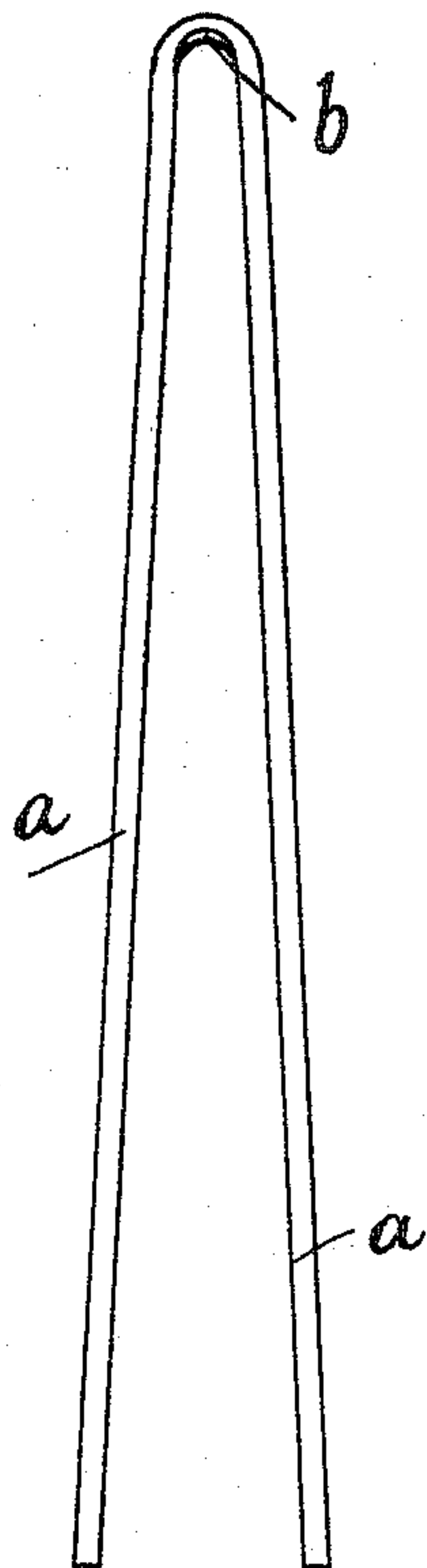
PATENTED NOV. 29, 1904.

F. THOMASSON.
KNOTTER.

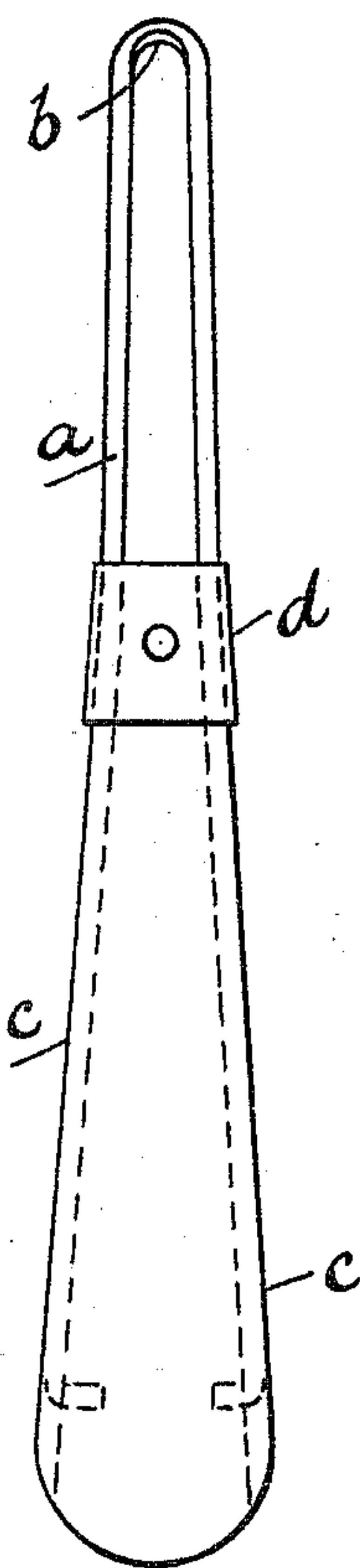
APPLICATION FILED NOV. 8, 1903.

NO MODEL.

FIC.1



FIC.2



FIC.3

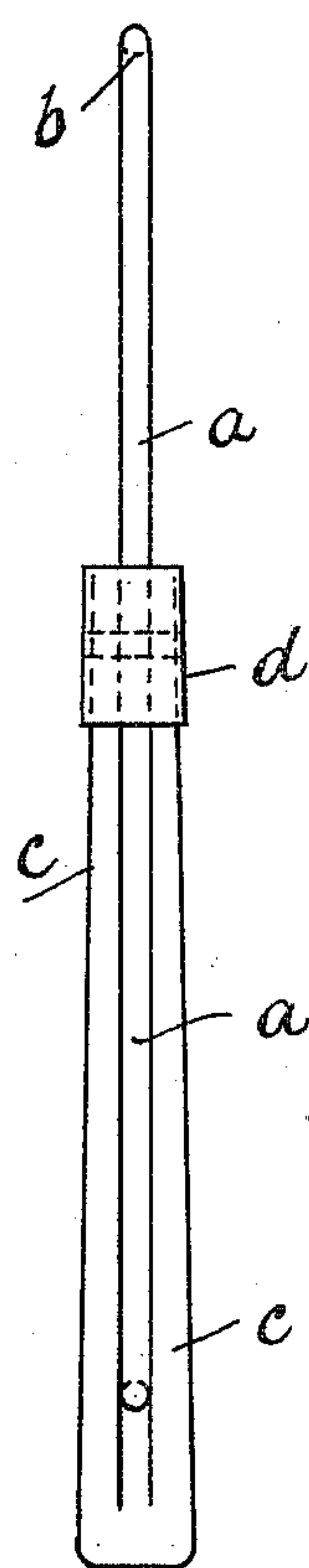
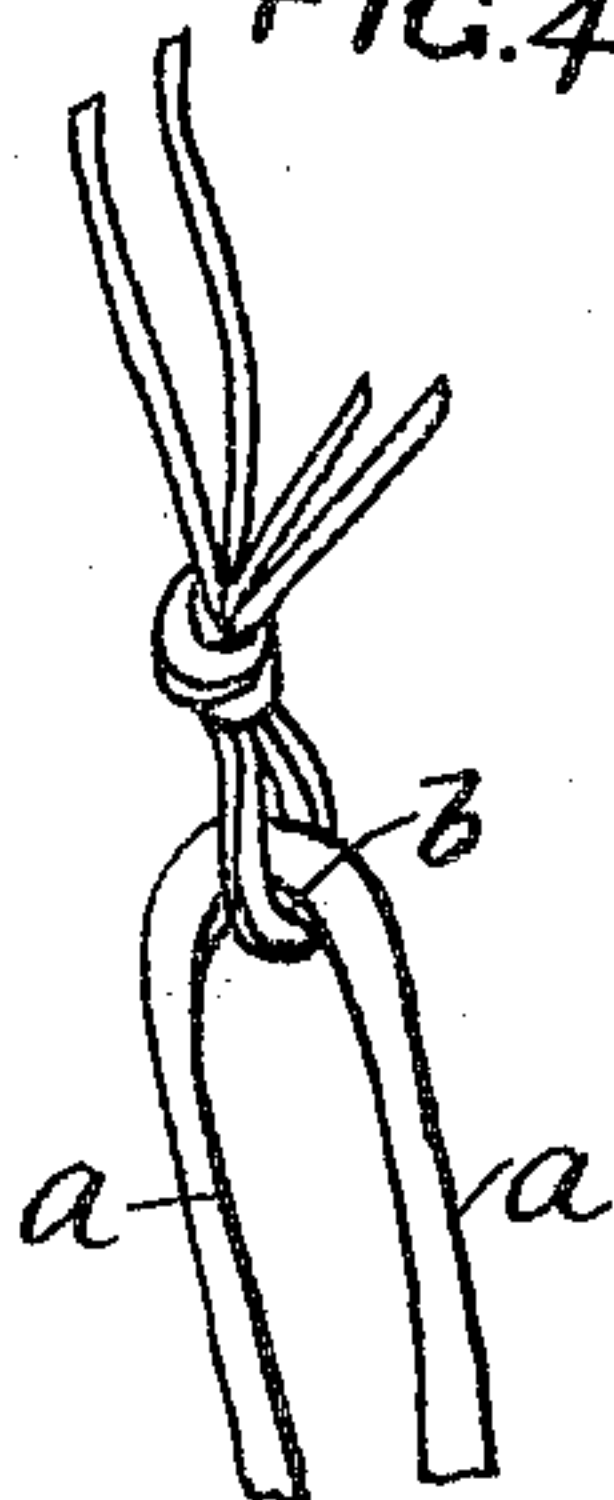
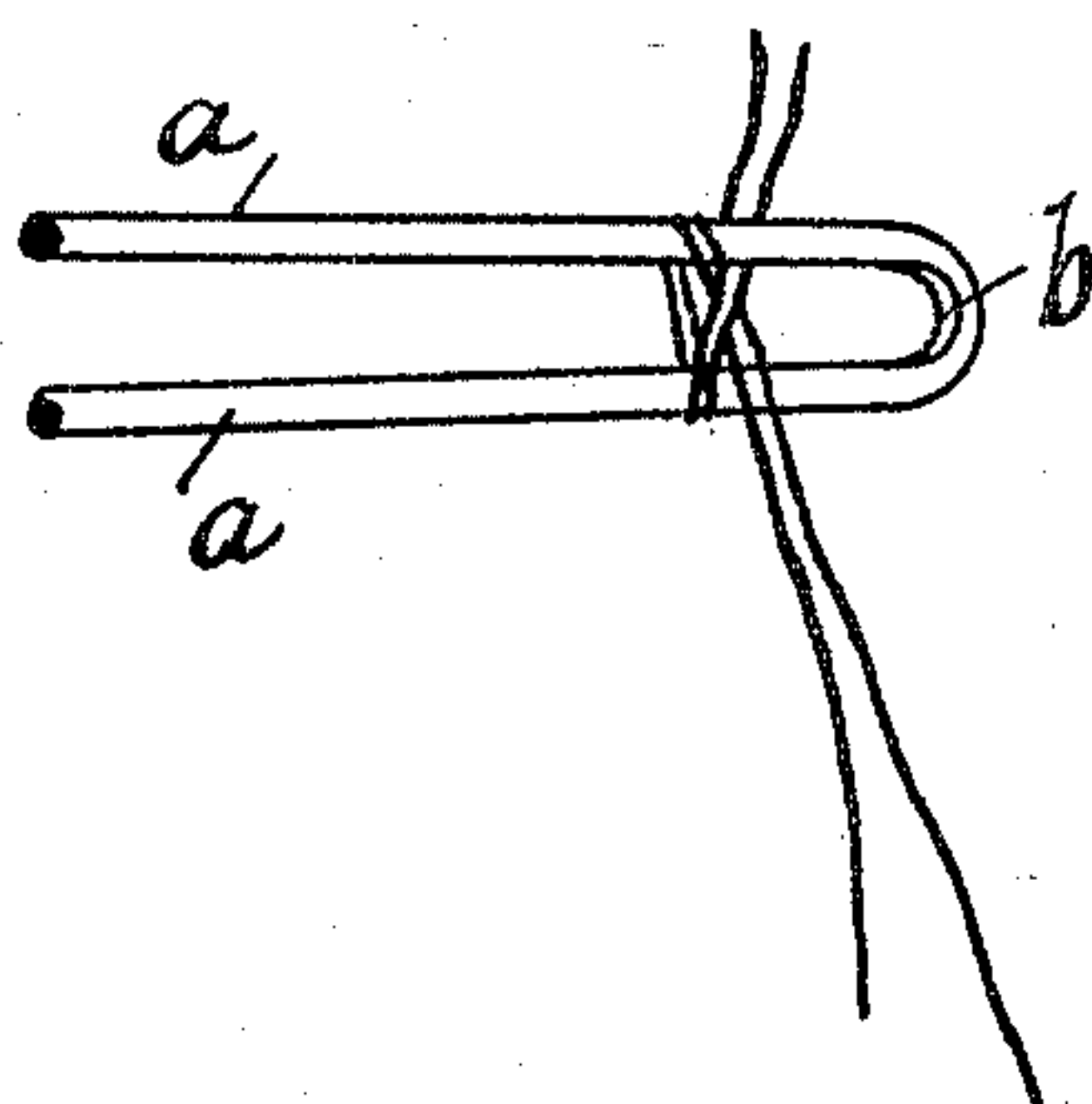


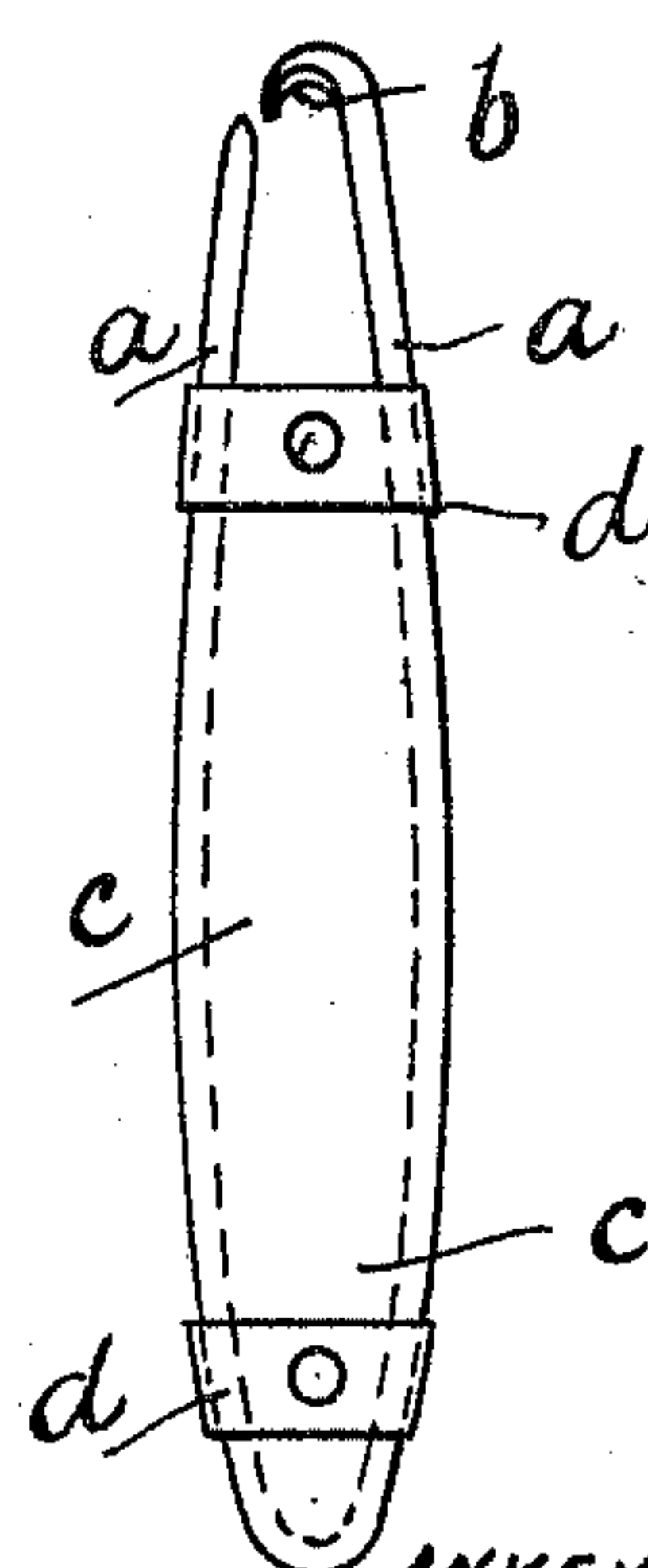
FIG.4a.



FIC.4



FIC.5



WITNESSES:

P.W. Wright,

John Abbe

INVENTOR

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BY *Howell and Howell*
HIS ATTORNEYS.

UNITED STATES PATENT OFFICE.

FREDERICK THOMASSON, OF MANCHESTER, ENGLAND.

KNOTTER.

SPECIFICATION forming part of Letters Patent No. 776,271, dated November 29, 1904.

Application filed November 6, 1903. Serial No. 180,115. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK THOMASSON, a subject of the King of Great Britain and Ireland, residing at 47 Cleveland road, Higher Crumpsall, Manchester, in the county of Lancaster, England, have invented a new and useful Improved Knotter, of which the following is a specification.

The object of this invention is to provide a simple form of knotter to enable winders and others to readily and speedily knot two ends of thread or the like together.

The manner in which my said invention is to be performed or carried into practical effect will be readily understood on reference to the sheet of drawings, in which—

Figure 1 is a front view of a simple form of my knotter. Fig. 2 is a front view of a knotter with an attached handle. Fig. 3 is a side elevation of Fig. 2. Fig. 4 is a view showing the position of thread when forming the knot. Fig. 4^a is a view showing the knot formed and slipped off the knotter in position for the loose ends to be severed, and Fig. 5 is a view of a modification.

For the purposes of my invention I take a piece of steel or other suitable wire *a* of a convenient length and I bend or double the same into an inverted-U form somewhat like a hair-pin, as shown at Fig. 1 on the drawings. I then file or otherwise form the inner side of the bend or loop at *b* to a cutting edge. The legs of the inverted U may be bent or formed in any suitable way for convenience of handling; but I prefer to bend the ends inward and attach the wooden handle *c*, as shown in Figs. 2 and 3. The sides of the handle are grooved to receive the wire, which is secured to the handle *c* by means of a metal ferrule *d*.

The person using this improved knotter holds the same in one hand and in the other takes the two ends together, then passes the two pieces of yarn around the legs of the U in a coil and draws the extreme ends through the space between the coil and the cutting edge of the loop, as shown at Fig. 4, then slips the coil upward off the ends of the loop and legs, so as to form a knot, and gives a sud-

den pull at the two pieces together, whereby the knot is pulled tight and the short projecting ends are cut off. These short ends may readily be removed by the thumb and finger.

Fig. 5 shows a modification in which only one leg or member *a* of the U-shaped wire carries the cutting edge *b*. A handle *c* with bands *d d* serves to hold the two legs *a a* together. One of the legs *a* is curved and sharpened to form the cutting edge *b*. The other leg is adjacent to the cutting edge, but its only function is to assist in forming the knot.

I claim as my invention—

1. An improved knotter having two wire members around which a knot may be prepared, and a curved part at the end of such members, the inner edge of said curved part being sharpened for cutting the knotted threads after the knot is slipped off said members.

2. An improved knotter of inverted-U shape having a cutting edge in the loop of the U, substantially as described.

3. An improved knotter, comprising a handle, two wire legs extending therefrom and terminating in a loop, said loop having a cutting edge, substantially as described.

4. An improved knotter made from a single piece of steel wire bent or looped in the form of a hair-pin, the inner edge of the loop being sharpened for cutting the knotted threads, after the knot is slipped off the said loop.

5. An improved knotter formed from a single piece of steel wire bent in the form of a hair-pin and formed with an internal cutting edge substantially as described, and fitted with a handle for convenience of carriage and use.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK THOMASSON.

Witnesses:

GEORGE DAVIES,
JNO. HUGHES.