

(No Model.)

H. A. KAYSAN.
SURGICAL LIGATURE HOLDER.

No. 517,574.

Patented Apr. 3, 1894.

Fig: 1.

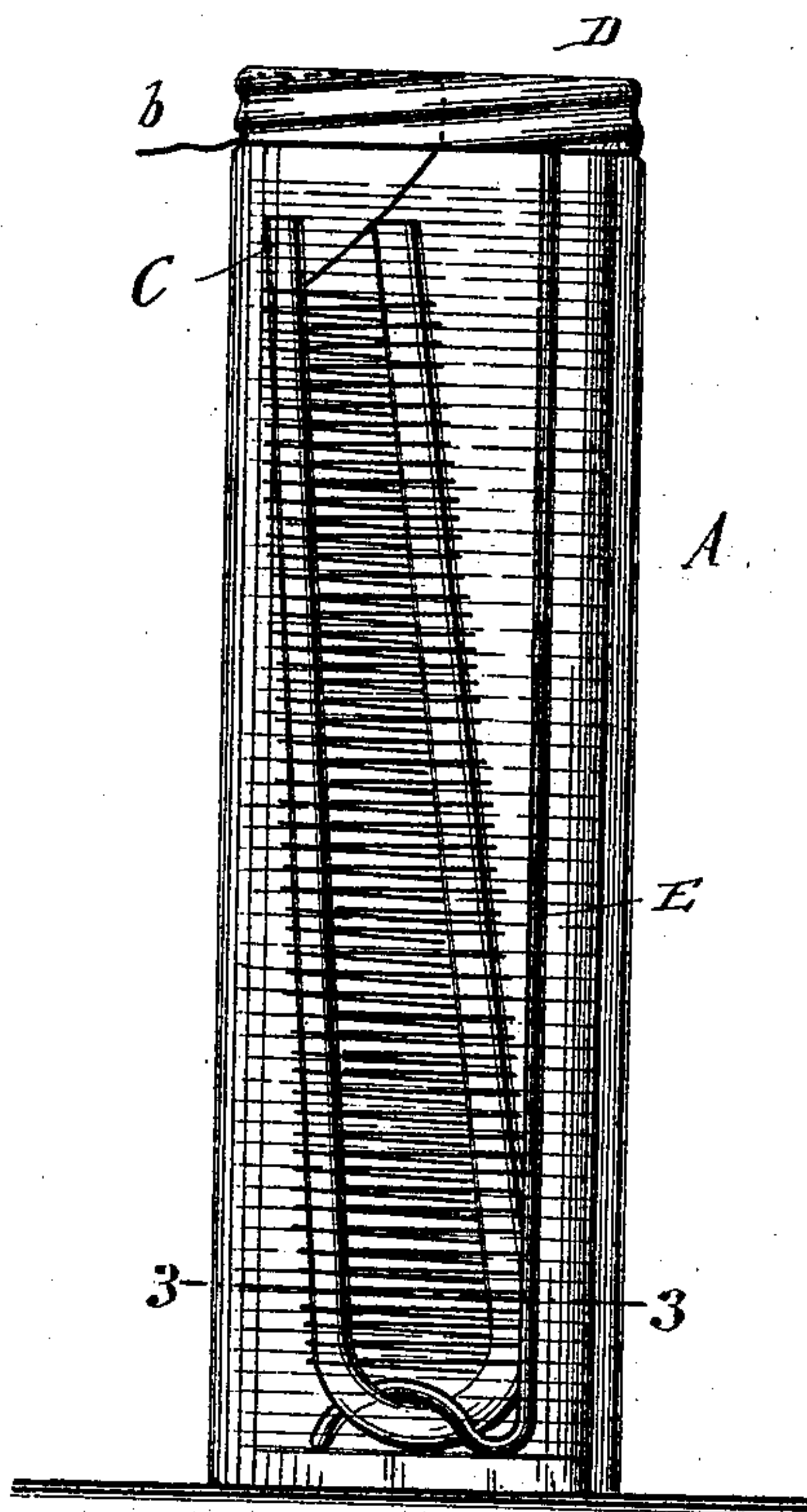


Fig: 2.

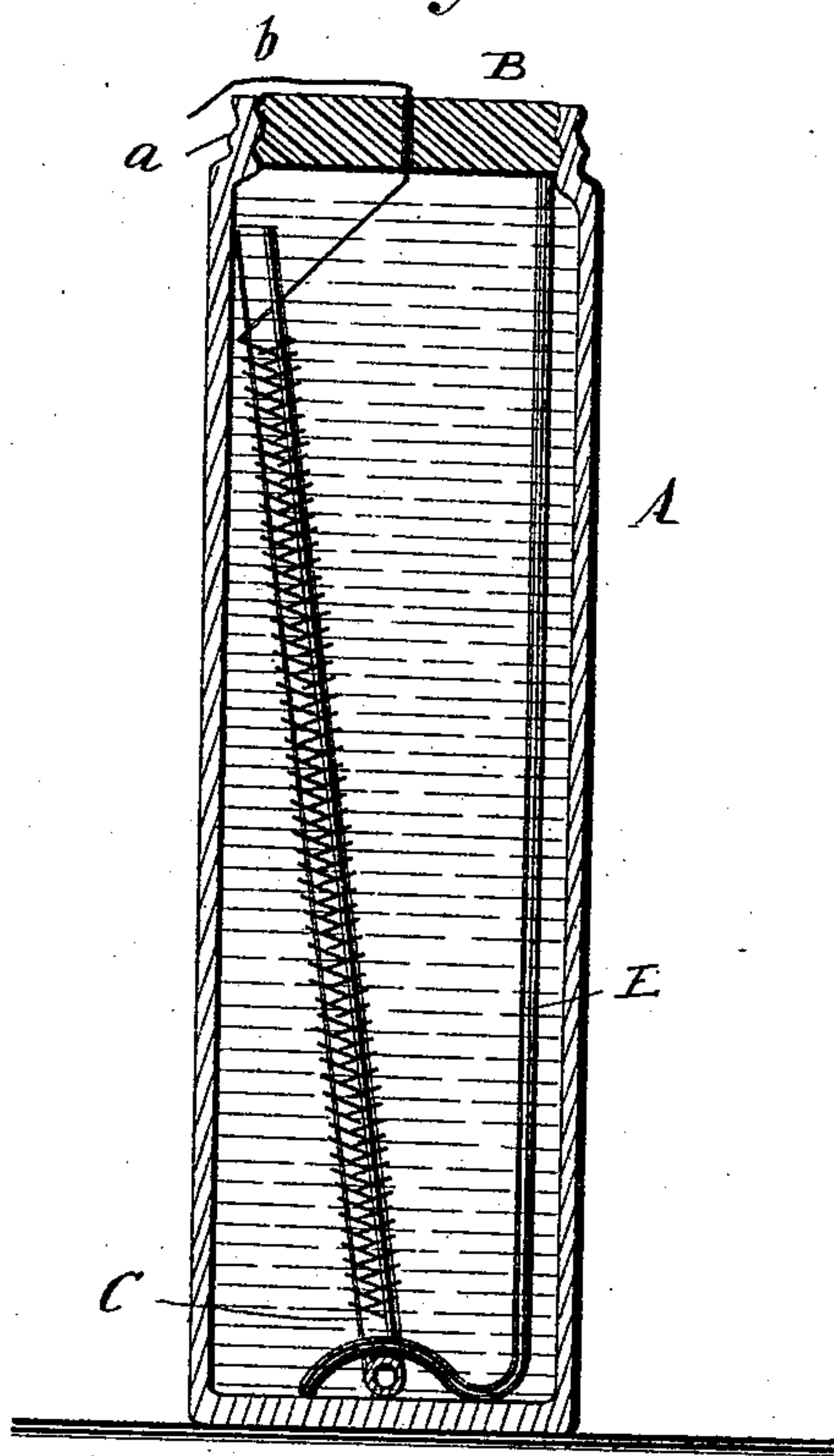


Fig: 3.

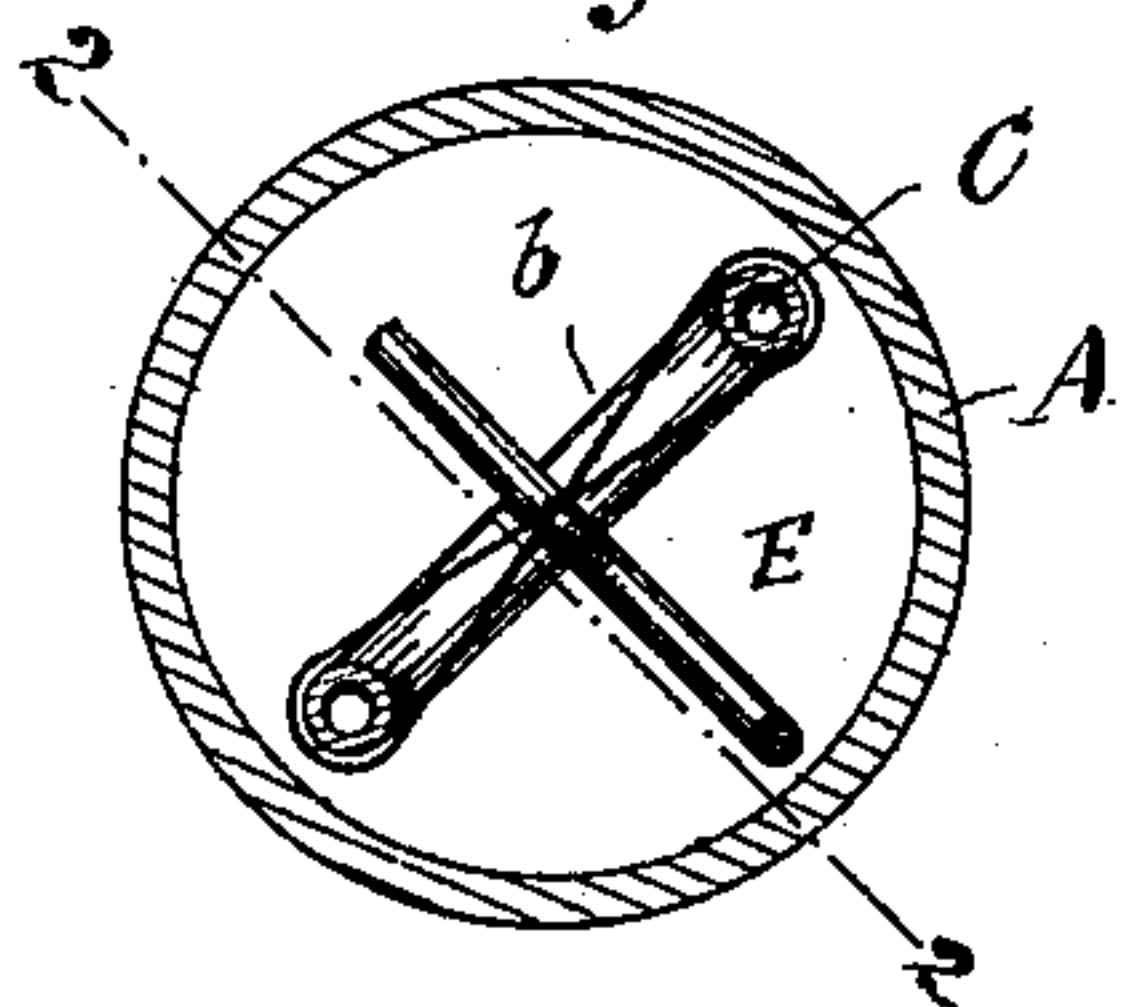
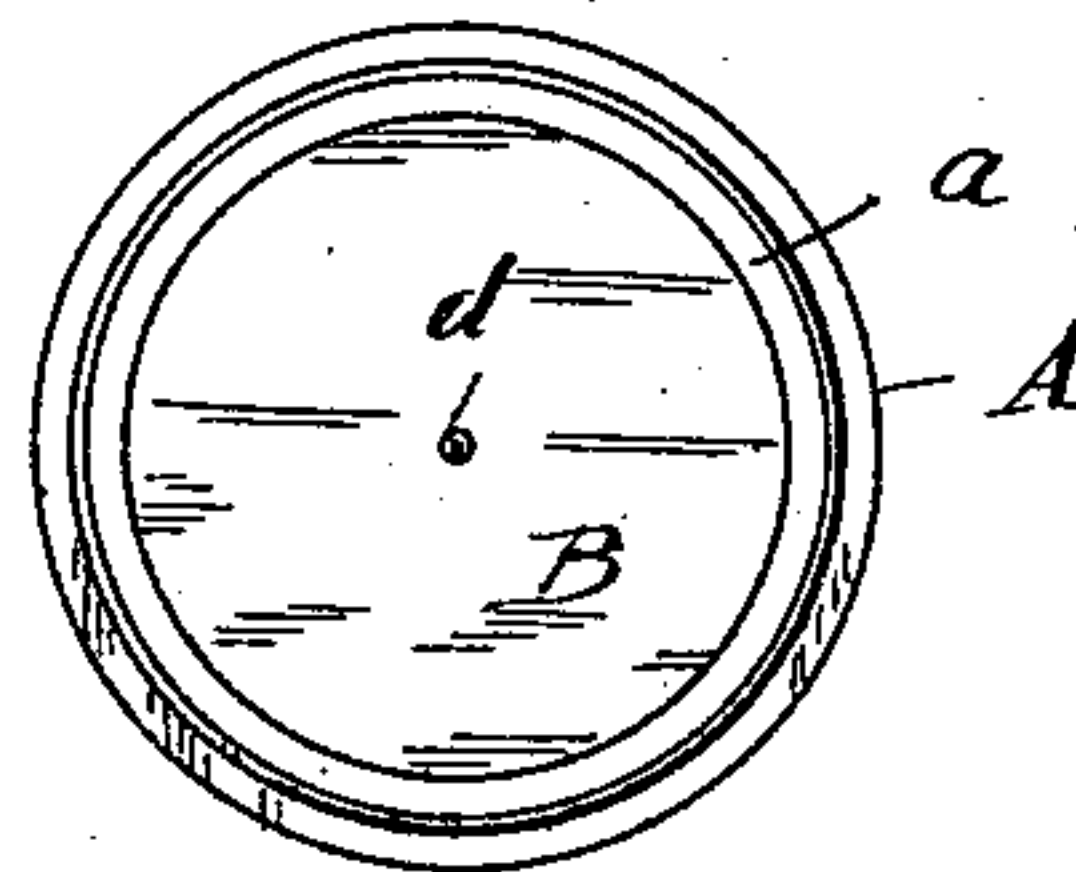


Fig: 4.



WITNESSES:

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SURGICAL LIGATURE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 517,574, dated April 3, 1894.

Application filed May 19, 1893. Serial No. 474,784. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. KAYSAN, a subject of the Emperor of Germany, residing in the city of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Cat-gut-Holders for Surgical Purposes, of which the following is a specification.

In sewing wounds cat-gut is used, which is unwound from a winder that is submerged in alcohol contained in a closed bottle, said cat-gut being passed through a hole in a cork stopper. These cat-gut holders are objectionable for the reason that the cat-gut wound on the spool frequently gets entangled, so that it cannot be drawn out at the very moment when required for use.

The object of my invention is to furnish surgeons with an improved cat-gut holder, in which the entangling of the cat-gut and the getting out of order of the holder is entirely obviated, and a very reliable supply of cat-gut obtained.

The object of the invention is further to furnish a cat-gut holder in which each fold of the cat gut is exposed to the action of the preserving fluid.

In the accompanying drawings, Figure 1 represents a side elevation of my improved cat-gut holder for surgical purposes. Fig. 2 is a vertical transverse section of the same, on line 2 2, Fig. 3. Fig. 3 is a horizontal section of same, on line 3 3, Fig. 1, and Fig. 4 is a top view of the cat-gut holder, with the sheet metal screw-cap detached from the inclosing vessel of the same.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a bottle or vessel which is provided with a neck *a*, which is closed by a cork or other suitable stopper B, as shown in Fig. 2. The interior of the bottle or vessel A is filled with alcohol, so that the cat-gut stored up in the same is entirely submerged, said alcohol serving for the purpose of disinfecting the cat-gut and keeping the same ready for use when required.

In the bottle or vessel A is arranged a U-shaped winder C that is preferably formed of a glass tube that is bent into U-shape, the legs of the winder being made to converge slightly. On the U-shaped glass winder C is

wound cat-gut *b* of suitable length, the winding being made in the shape of a horizontal figure 8, beginning at the lower and wider end of the winder and continuing up to the upper ends of the legs from which the cat-gut is passed through the central aperture *d* of the stopper to the outside, the outermost end being retained by a sheet-metal screw-cap D, which is screwed on the exterior screw-thread of the neck of the bottle, so that the bottle is hermetically closed by said cap D, in connection with the stopper B. In this winding the threads are kept out of contact with each other, thereby exposing each fold to the influence of the preserving fluid. The lower part of the winder C is engaged by the hook-shaped lower end of a wire keeper E, the upper end of which is inserted into the stopper, preferably between the circumference of the same and the glass, so as to be held firmly in position thereby. The hook-shaped lower end of the wire keeper serves for retaining the lower end of the U-shaped winder in position at the bottom of the vessel, and permits the oscillating motion of the winder in following the motion of the cat-gut when the same is gradually paid out for use. Any length of cat-gut can be readily drawn out of the holder, as the winder is oscillated by the pulling strain on the cat-gut, so that it pays out one convolution of the cat-gut after the other until the entire length of the same is paid out for use. By retaining the lower end of the U-shaped winder on the bottom of the bottle the winder can freely oscillate and follow the motion of the cat-gut as the same is drawn out for use, without any chance of entanglement or obstruction, so that a reliable and yet comparatively cheap and effective cat-gut holder for surgeons is obtained.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a cat gut holder for surgical purposes, the combination of a vessel for containing a preserving fluid, a stopper for said vessel provided with a thread eye, and an elongated winder disposed in said vessel for receiving the cat gut and adapted to oscillate from side to side in said vessel during the unwinding thereof, substantially as set forth.

2. In a cat gut holder for surgical purposes,

the combination of a vessel for containing a
preserving fluid, a stopper for said vessel pro-
vided with a thread eye, and an elongated
winder disposed in said vessel for receiving
5 the cat gut and adapted to oscillate from side
to side of said vessel, and a keeper for engag-
ing the lower end of said winder, substantially
as set forth.

In testimony that I claim the foregoing as
my invention I have signed my name in pres- 10
ence of two subscribing witnesses.

H. A. KAYSAN.

Witnesses:

PAUL GOEPEL,
CHARLES SCHROEDER.