

(No Model.)

E. B. HAMILTON.

TOOL FOR REMOVING BUTTONS.

No. 379,460.

Patented Mar. 13, 1888.

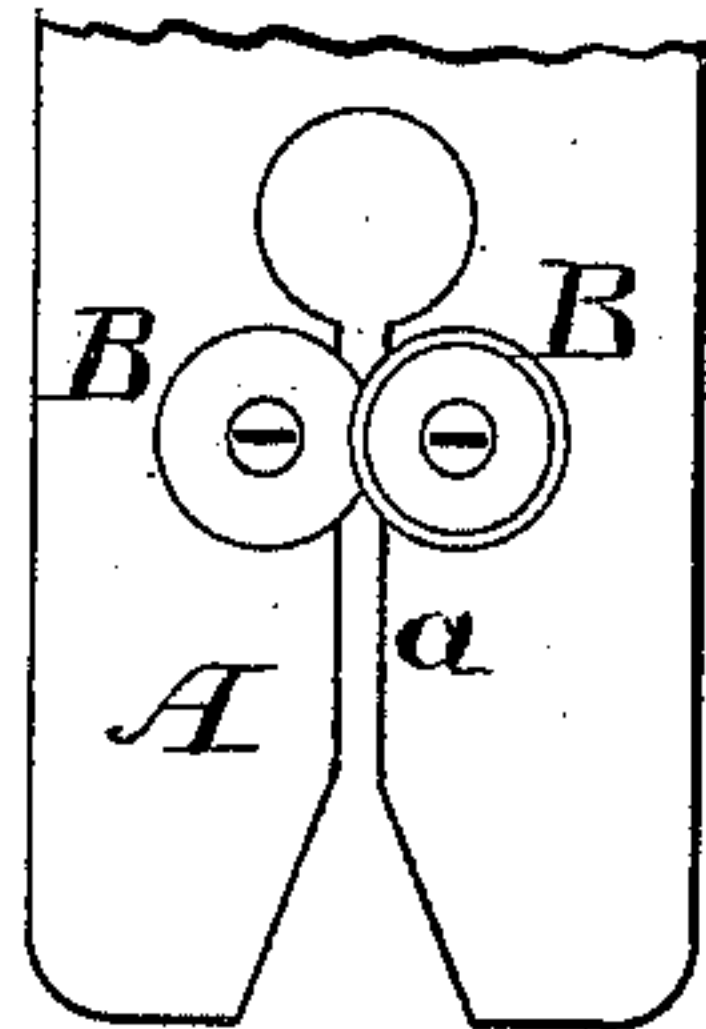


Fig. 6.

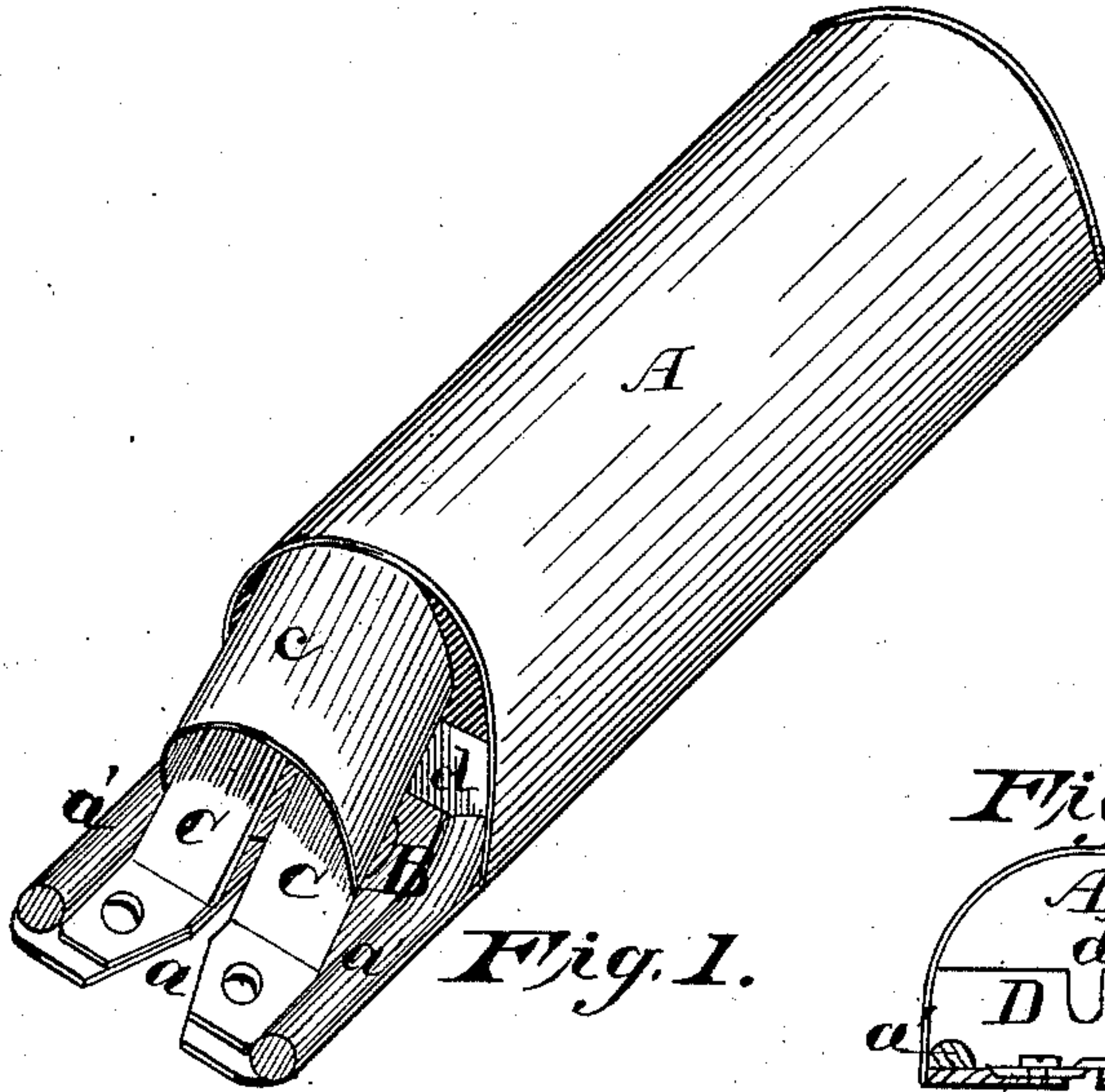


Fig. 1.

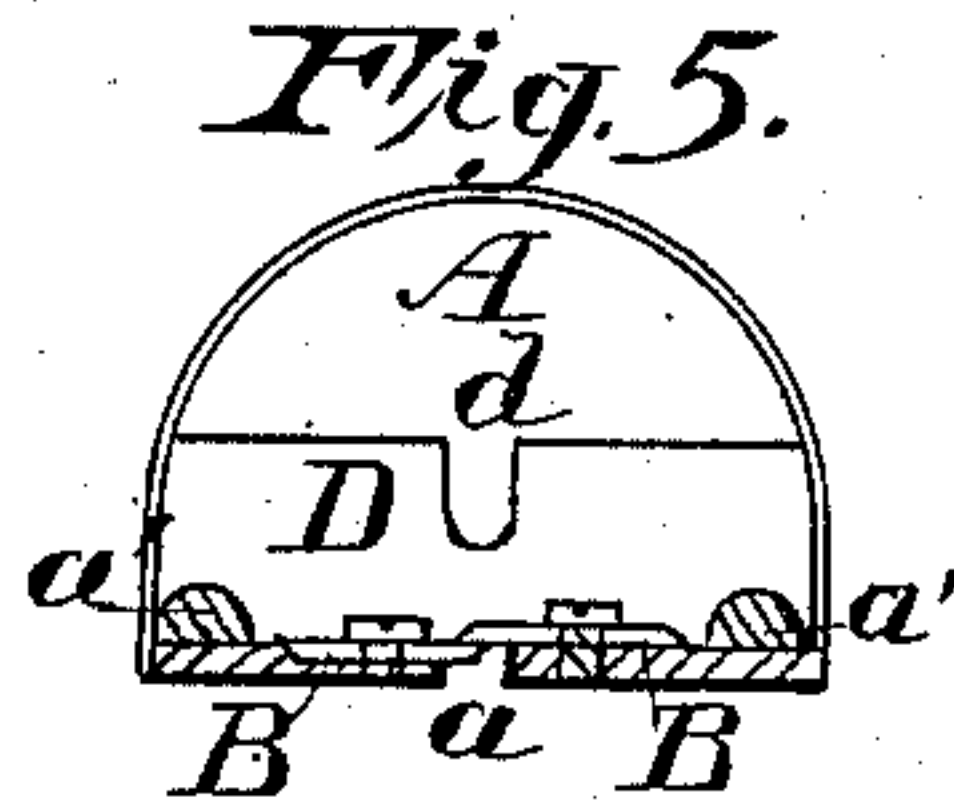


Fig. 5.

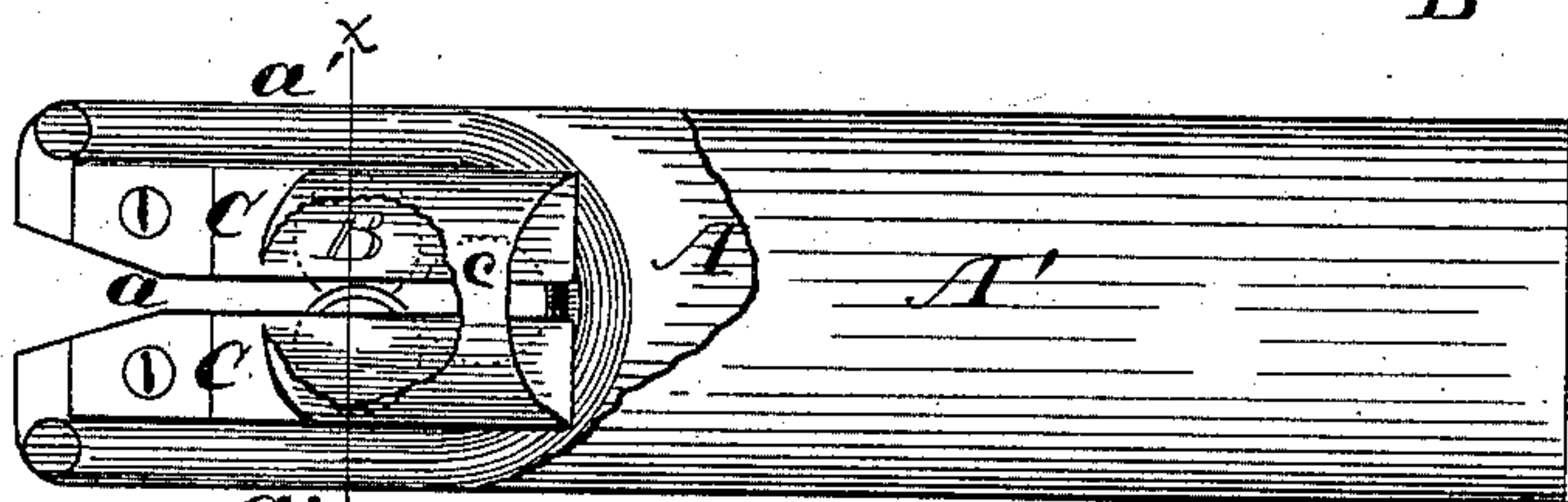


Fig. 2.

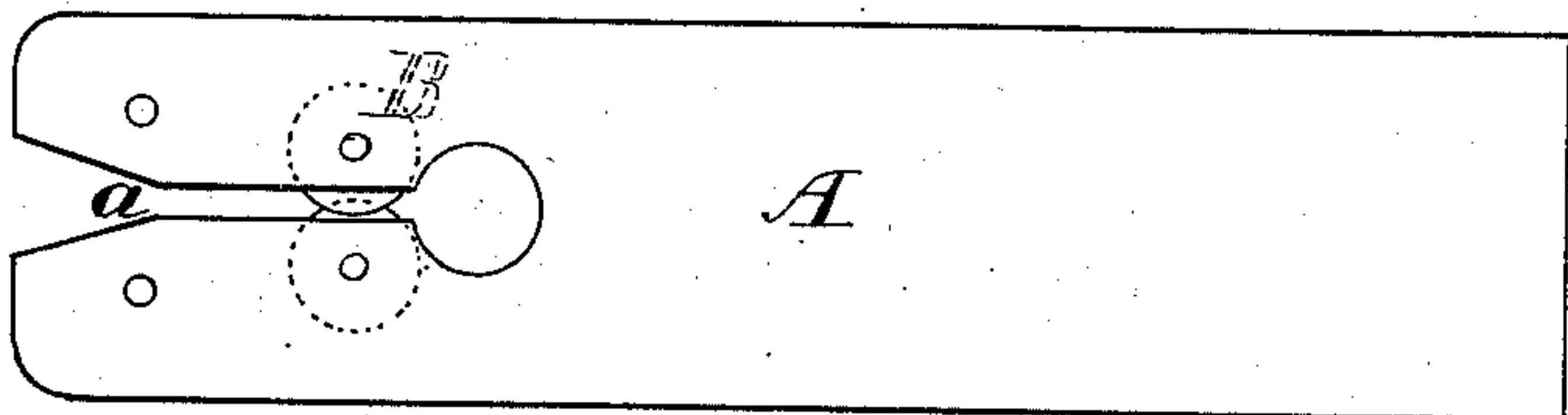


Fig. 3.

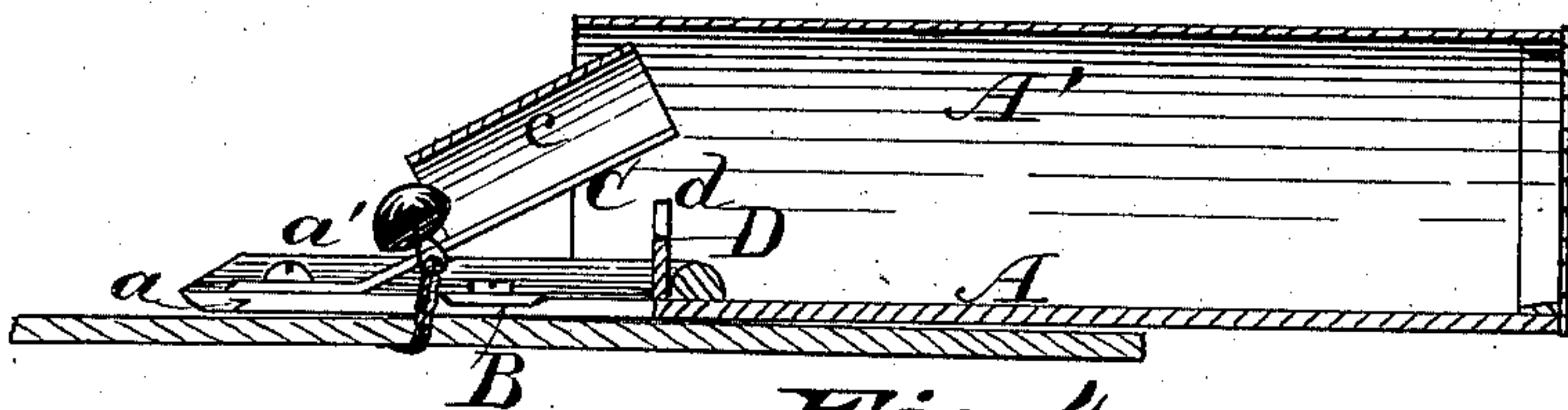


Fig. 4.

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TOOL FOR REMOVING BUTTONS.

SPECIFICATION forming part of Letters Patent No. 379,460, dated March 13, 1888.

Application filed January 6, 1888. Serial No. 260,017. (No model.)

To all whom it may concern:

Be it known that I, EDGAR B. HAMILTON, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Shoe-Button Removers, of which the following is a specification.

This invention relates to a device for rapidly removing buttons from shoes and other articles; and it consists of rotating cutters arranged in combination with a slotted plate and slotted spring-plate and a loose button-receptacle constructed and arranged to operate substantially as hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my new button-remover. Fig. 2 is a top view with a portion of covering broken away to show location of rotary cutters. Fig. 3 is a bottom or under side view. Fig. 4 is a longitudinal section. Fig. 5 is a cross section in line *x x* of Fig. 2. Fig. 6 is a view of a portion of the bottom plate, showing the rotary cutters in their relation to the slot therein.

A is the bottom or base plate, having a narrow slot, *a*, in its forward end, broadened into a V-shaped opening at the front part.

A' is a hood covering a major portion of said plate and forming a receptacle for the severed buttons, the rear end being closed with a cap or cover. The forward end of said plate A is stiffened with a rib or bead, *a'*.

B B are two rotary cutters pivoted in shallow recesses in the upper face of the plate A, having their united cutting-edges in line with the center of said slot *a*.

C is a slotted spring-plate removably attached to the front points of the plate A, its slot located directly over the slot *a*, and has a hood, *c*, which connects the two parts of said spring.

D is a cross-partition extending partly up and forming a wall in the forward end of the chamber under the hood A'. It has a slot, *d*, to let the shank or eye of the button pass through.

The operation of this device is as follows: By taking the device and holding it between

the thumb and four fingers of the right hand and carrying it along so that the buttons will successively pass into the slot they are severed from the fabric by the cutting of the thread by the cutters B B, the spring-plate C yielding to the strain upon the thread and also holding the button up from the cutters, which cut the thread and sever it from the fabric. The hood *c* on the spring-plate C also catches and prevents the button from being thrown when severed, and it is conveyed into the receptacle. The wall *d* also serves as a stop for the downward pressure of the spring-plate C, and thereby prevents the shank or eye of the button interfering with the cutters, which otherwise would be injured or dulled thereby. Any loose threads which are made by the severing of the buttons will fall through the opening at rear end of slot *a*.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a shoe-button remover, the combination of a slotted plate, rotary cutters, and a slotted spring-plate, substantially as described.

2. In a shoe-button remover, the combination of a slotted cutter-plate provided with rotary cutters and a hood for catching the severed buttons, substantially as described.

3. In a shoe-button remover, the combination of a slotted cutter-plate provided with rotary cutters and a hood for catching the severed buttons, and a slotted spring-plate for holding the buttons up from the cutters and provided with a hood for arresting the severed buttons and preventing their flying away, substantially as described.

4. The combination of a slotted plate, A, having rotary cutters B B attached in connection with the slot *a* and provided with a hood, A', for catching the severed buttons, an inclined spring-plate, C, having a slot over the cutters and a hood, *c*, and a cross-wall, D, having notch *d*, constructed and operating substantially as described.

EDGAR B. HAMILTON.

Witnesses:

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F. W. CADWELL.