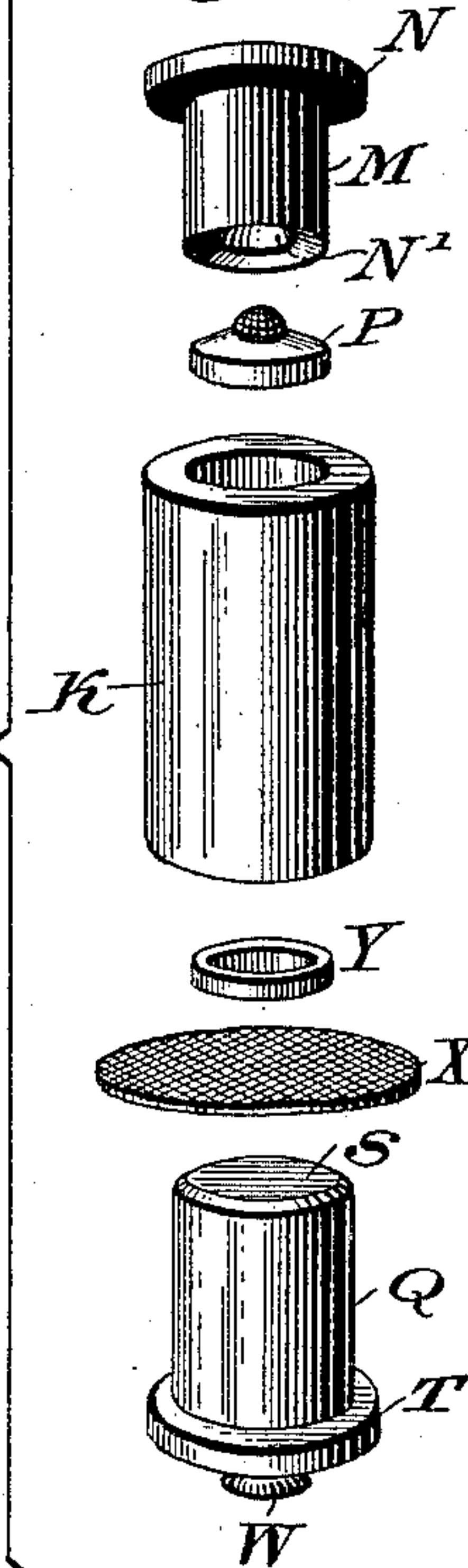
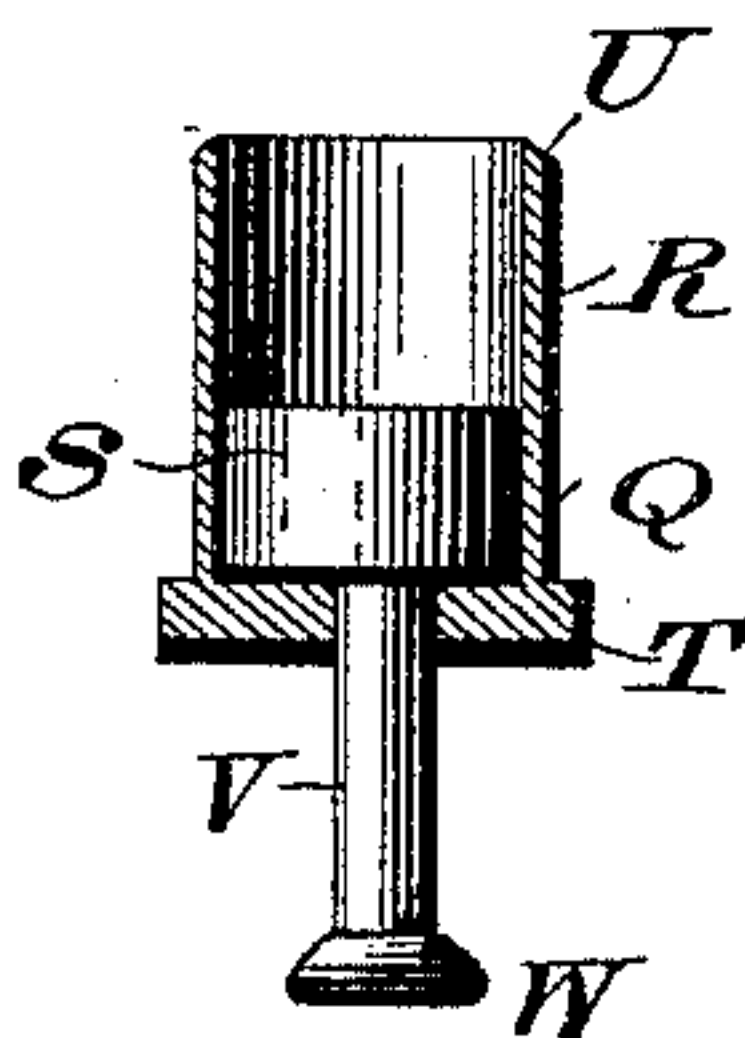
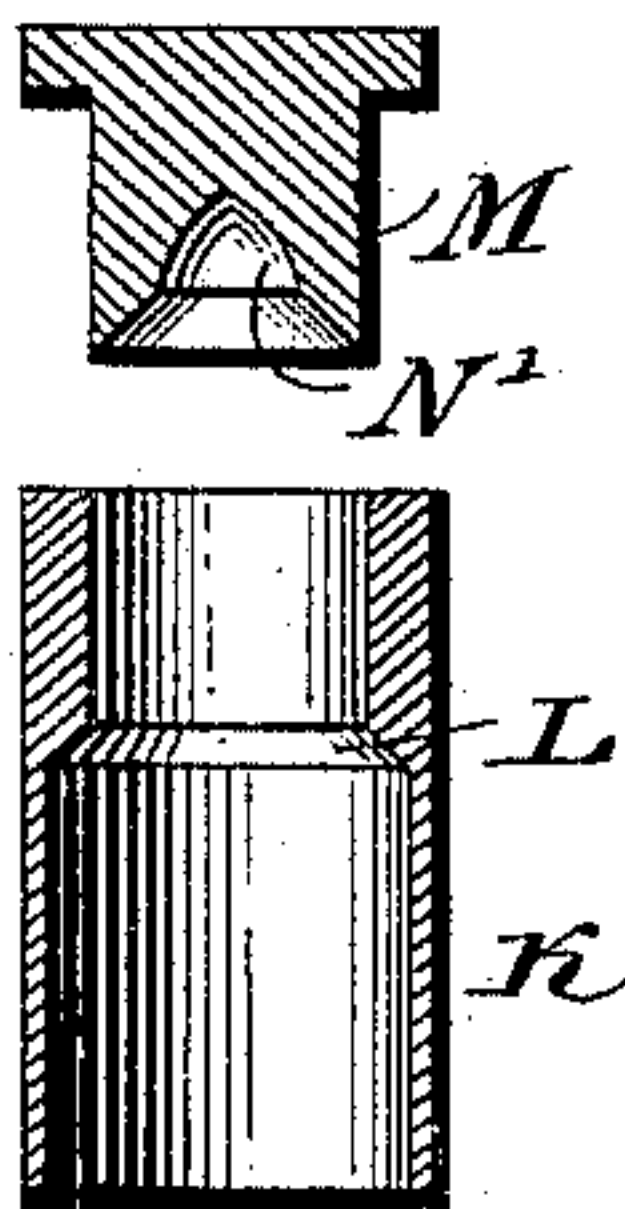
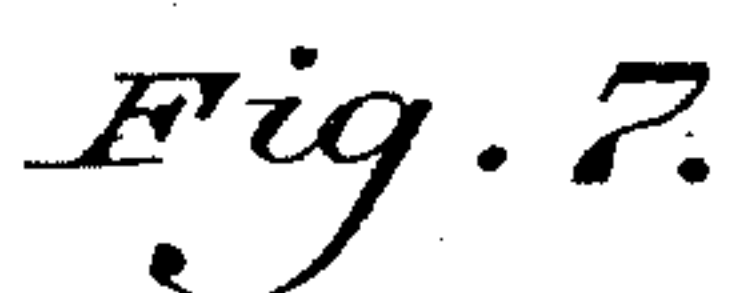
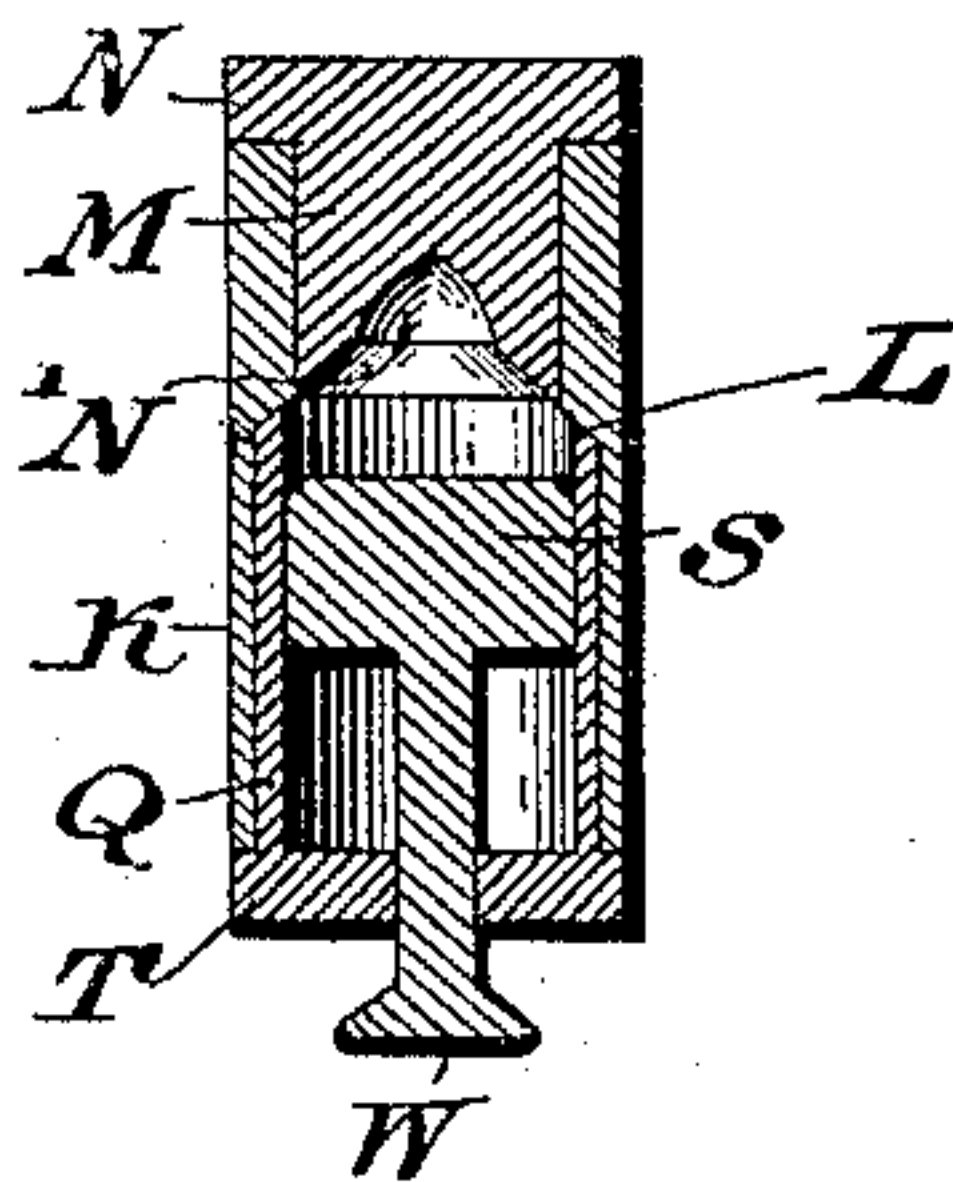
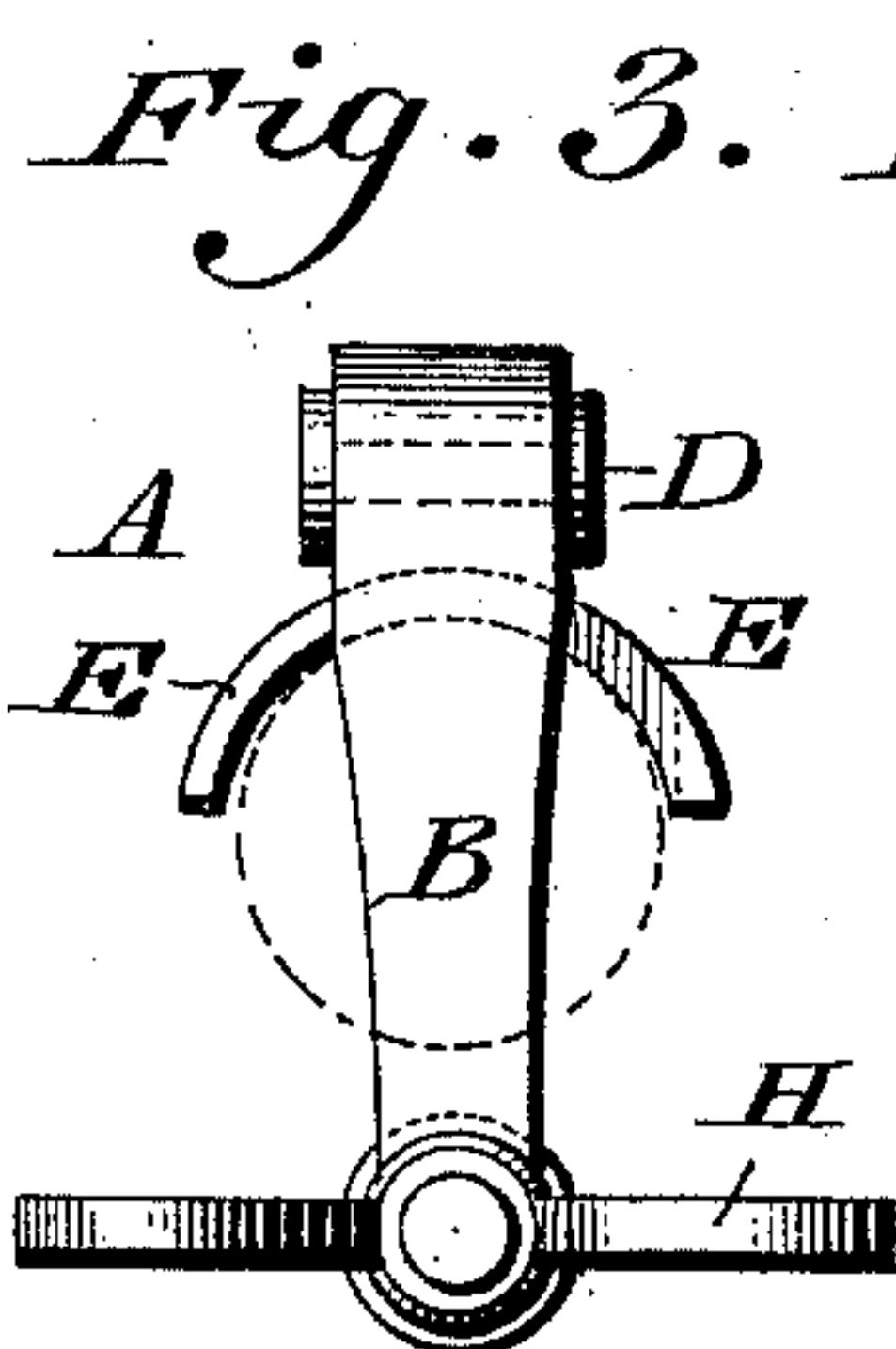
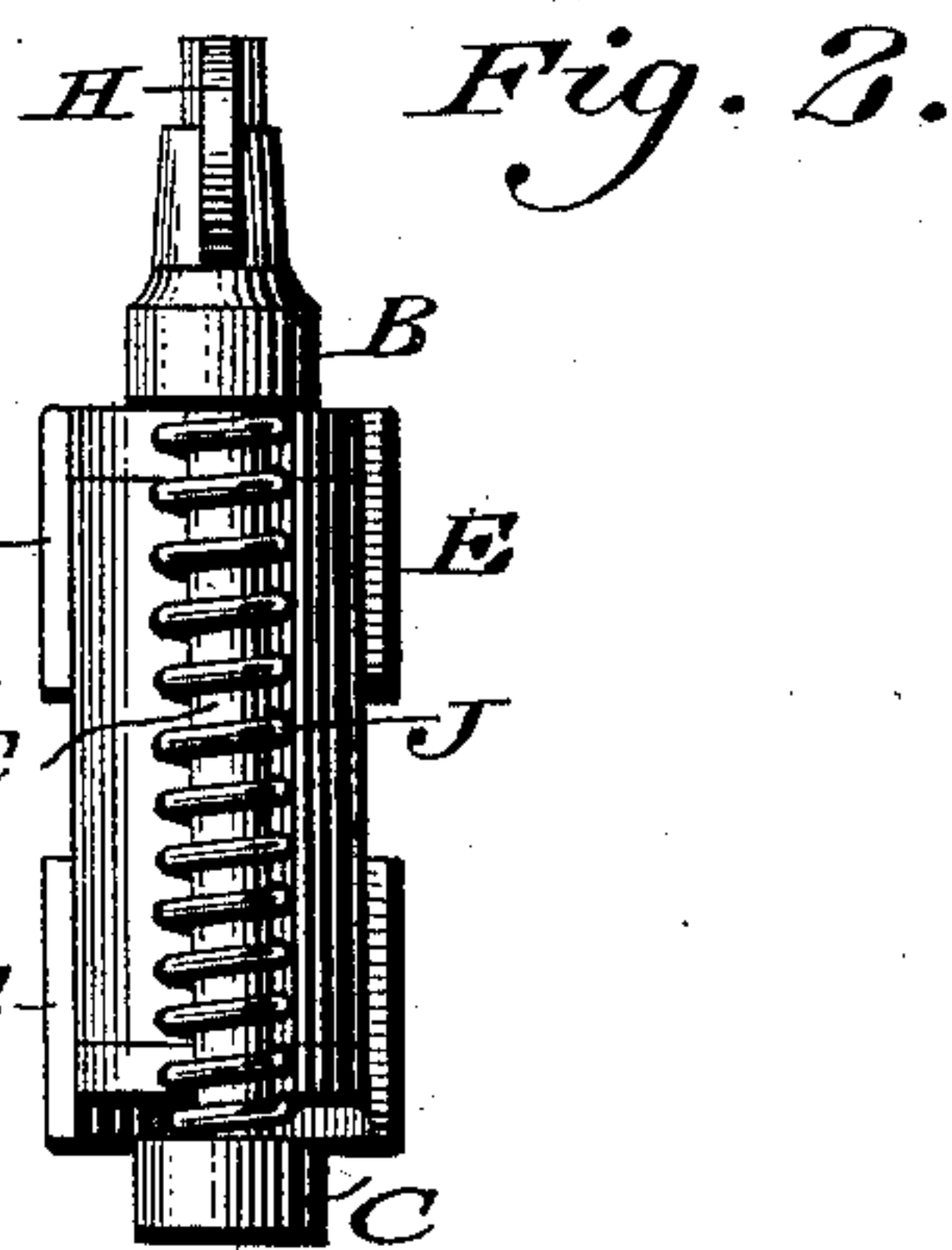
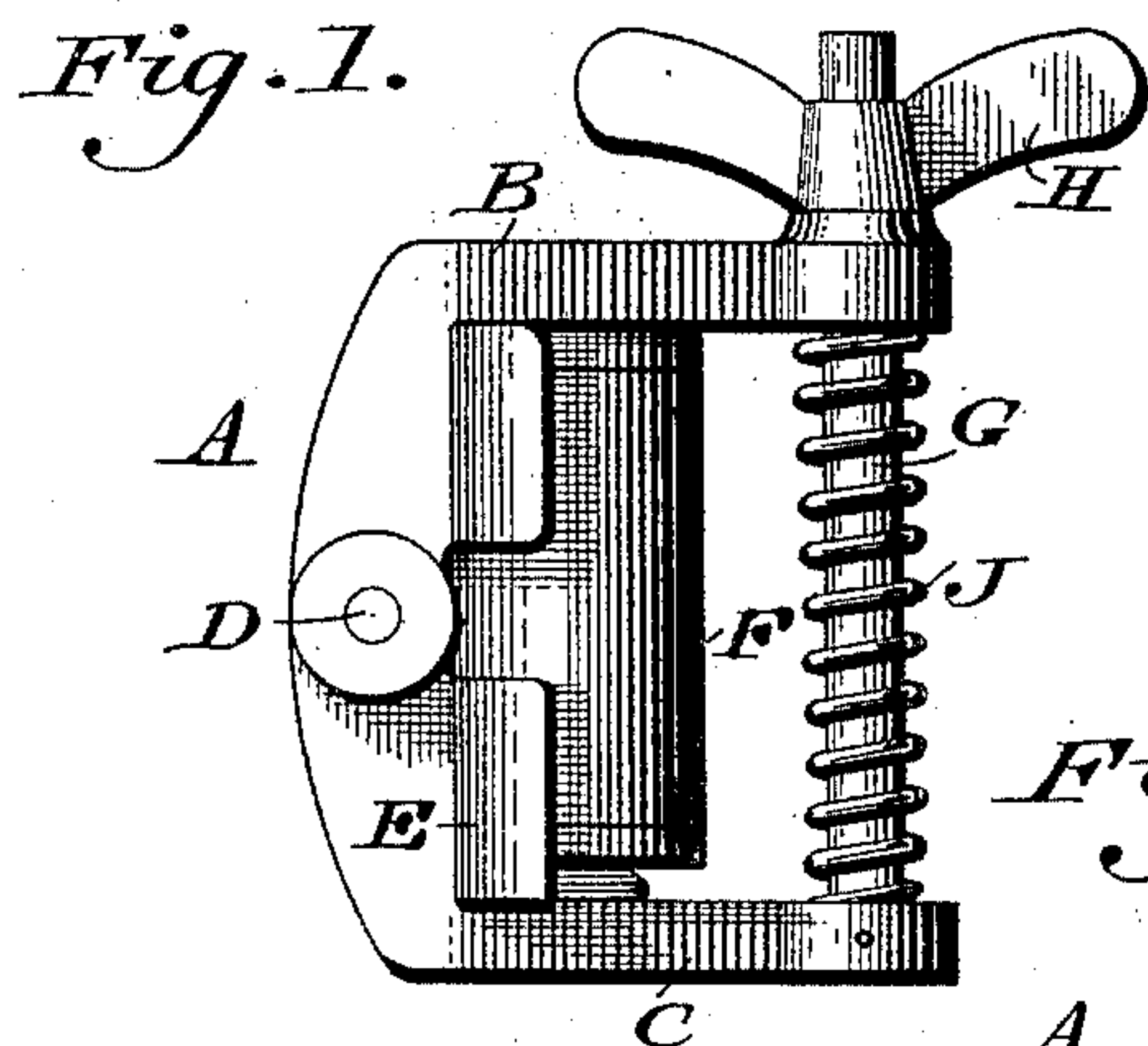


(No Model.)

A. BENDER.
BUTTON MACHINE.

No. 467,394.

Patented Jan. 19, 1892.



WITNESSES:

P. F. Stagle.
L. Douville.

INVENTOR

Adam Bender,

BY

ATTORNEY.

UNITED STATES PATENT OFFICE.

ADAM BENDER, OF PHILADELPHIA, PENNSYLVANIA.

BUTTON-MACHINE.

SPECIFICATION forming part of Letters Patent No. 467,394, dated January 19, 1892.

Application filed March 30, 1891. Serial No. 386,917. (No model.)

To all whom it may concern:

Be it known that I, ADAM BENDER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Button-Presses, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in button-presses or machines for covering buttons with cloth, and has for its object the construction of a device simple in character and not easily liable to get out of repair; and for this purpose it consists, first, of pivoted jaws adapted to hold the die-blocks of the device and provided with means for closing said jaws.

It further consists of novel die-blocks, as hereinafter described.

It further consists of the combination of parts hereinafter set forth.

Figure 1 represents a side view of a machine embodying my invention. Fig. 2 represents a view of the machine at right angles to that shown in Fig. 1. Fig. 3 represents a plan view of the same. Fig. 4 represents perspective views of the dies with holder and parts of the button, the same being separated for clearer illustration. Fig. 5 represents a central vertical section of the dies and holder, said parts being separated. Fig. 6 represents a vertical section of the parts shown in Fig. 5, the said parts being in the position they assume when the covered button is formed. Fig. 7 represents a perspective view of a covered button.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a press formed of the jaws B and C, pivoted or hinged together at D, and provided at their ends with the side flanges or extensions E of such form as to reliably retain within the press the die-block or holder F. Secured to the outer end of the jaw C is a rod G, which passes through an opening in the outer end of the jaw B and is provided with a screw-threaded portion, on which a thumb-nut H works. On the rod G and bearing against the inner faces of the jaws B and C is a coil-spring J, which tends to separate or open the

jaws, the nut H being adapted to close them and hold them in position.

K designates a holder or die-block in which the dies operate, said holder having an inner annular shoulder L, which is beveled or inclined. One of the dies M is formed with a flange-rim N on one end, its other end N' being recessed and corresponding to the conical disk P, forming a part of the button. The other die Q is formed of a shell portion R and a follower or plunger S, the former having a flanged rim T at one end thereof and its other end open, and with a beveled outer edge U, corresponding in incline to the bevel of the shoulder L of the holder. The plunger S is provided with a stem V, working in an opening in the flanged end of the shell, and having a head W, which limits the inner movement of the plunger.

The manner of operating the device is as follows: A piece of cloth X is pushed in the open end of the shell R, the plunger S being in the position shown in Fig. 5, and a button-shell Y is pushed in the shell R on the cloth. A disk P is placed in the recessed end of the die M, and the dies Q and M are then inserted in the holder K, the die Q being first inserted until its beveled edge U abuts against the shoulder L of the holder K when the die M is inserted. This action forces down the edges of the cloth into the button-shell. The holder, with the dies, is placed in the press and the jaws B and C closed on the ends of the die M and the head W of the plunger S. As the jaws are forced together, by rotating the thumb-nut H in the proper direction the plunger is pushed against the cloth and button-shell, whereby the upper edge of the said shell is forced past the edge of the disk, engaging the cloth between the edges of the shell and disk and binding it in place.

It will be seen that by constructing the die block or holder of a single piece the liability of displacement of the parts in operation is entirely removed.

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

1. In a button-press, the combination of pivoted jaws, a rod attached to the outer end of one of said jaws and inserted in an opening in

the other jaw, a spring surrounding said rod and bearing against said jaws, and a clamping-nut, substantially as described.

2. In a button-press, the combination of pivoted jaws having side extensions, a rod attached to one of said jaws and inserted in an opening in the other jaw, a spring bearing against said jaws, and a clamping-nut, substantially as described.

3. A button-press having a die-block or holder with an inner beveled shoulder, a die with a recessed end, a die with a shell having a beveled outer edge, a plunger, pivoted jaws with a rod attached to one of said jaws and working in an opening in the other jaw, and a spring bearing against the inner faces of the said jaws, said parts being combined substantially as described.

4. In a button-press, a holder having an inner annular beveled shoulder, a die formed with a flanged rim on one end, the other end being recessed corresponding to the conical disk of the button, a die consisting of a shell

portion having a flanged rim at one end and its other end open and provided with a beveled outer edge corresponding in incline to the bevel of the holder, and a plunger having a stem working in an opening in the flanged end of the shell of the last-mentioned die, said stem having a head outside of said shell, said parts being combined substantially as described.

5. In a button-machine, the combination of angular jaws pivoted at their inner ends and having opposing outer ends, said inner ends being provided with flanges or extensions, as set forth, a rod connecting the outer ends of said jaws, encircled by a repellent spring bearing against the jaws, a clamping-nut, and a die adapted to be removably mounted between said jaws, substantially as described.

ADAM BENDER.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. JENNINGS.