

J. F. NETTLETON.

Devices for Capping and Uncapping Cartridges.

No. 138,180.

Patented April 22, 1873.

fig 1

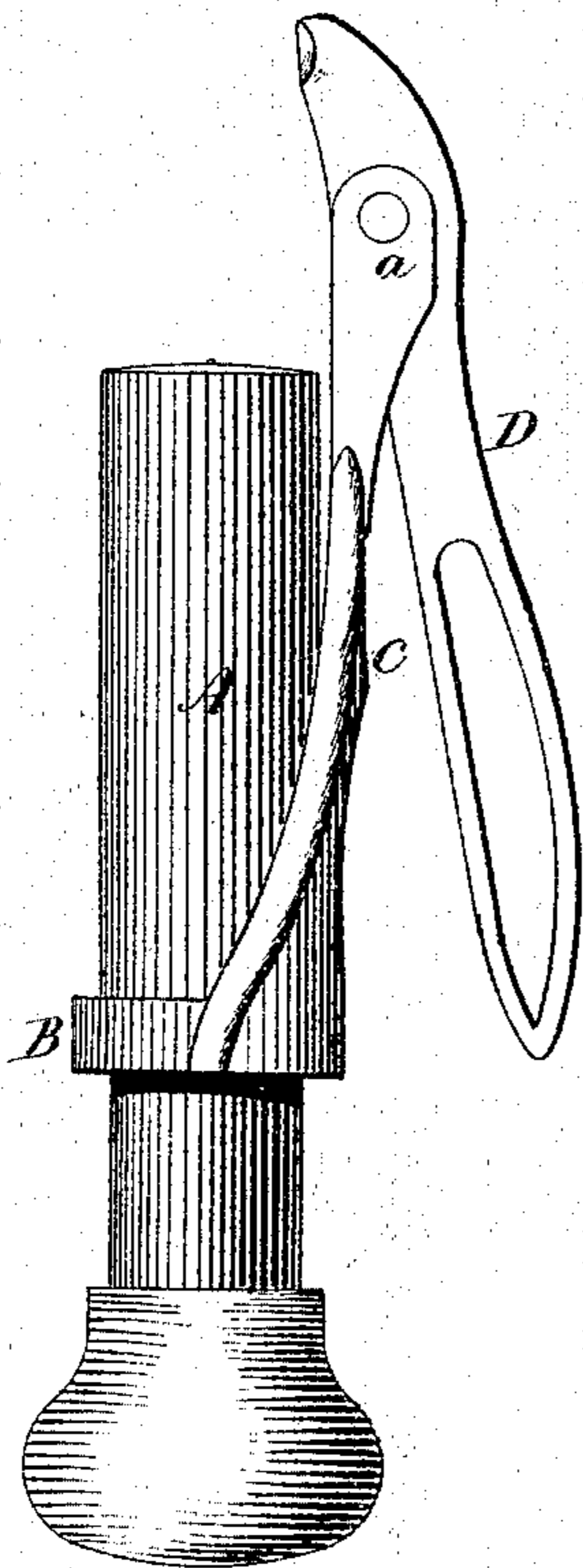
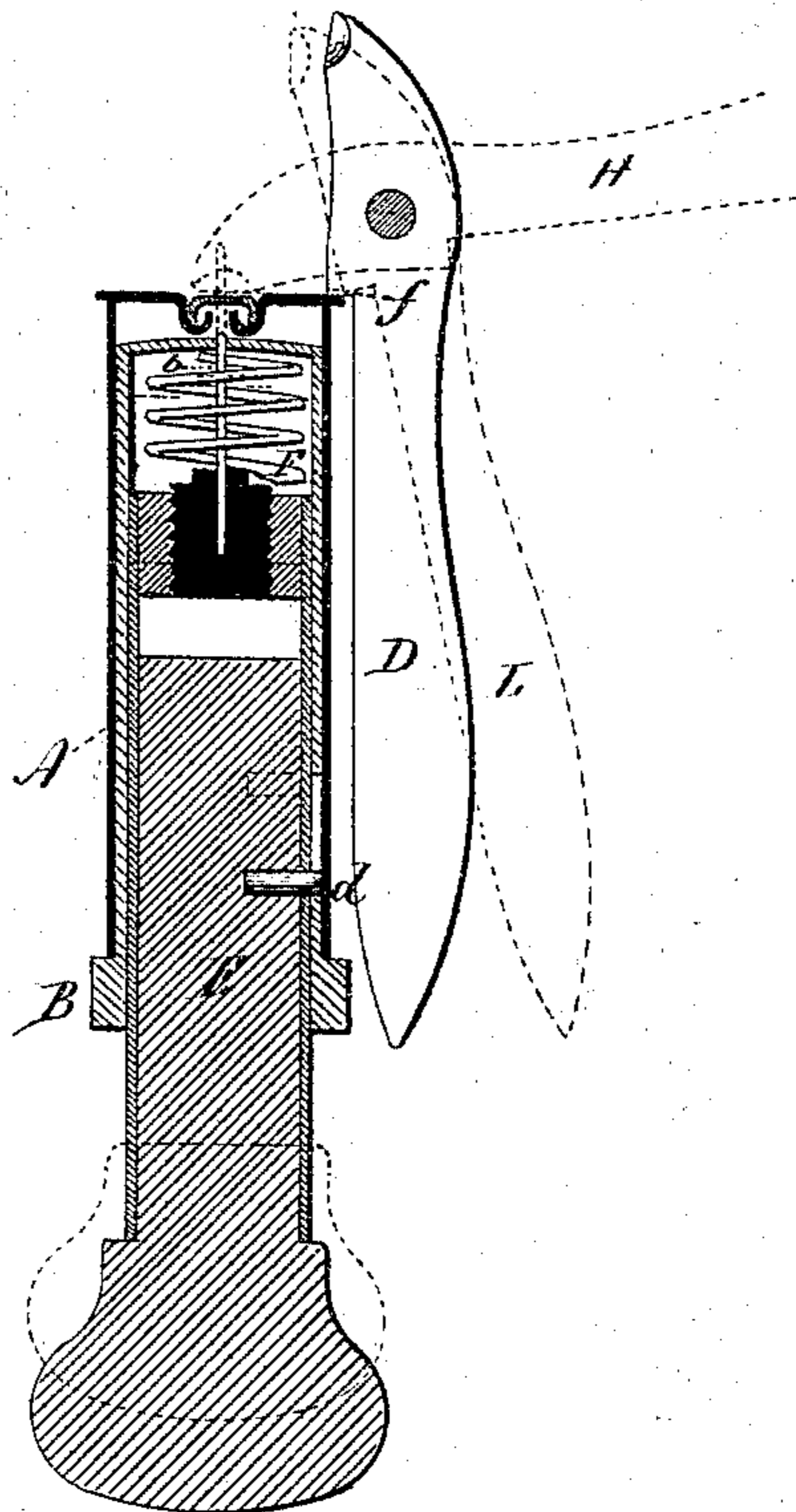


fig. 2



Witnesses.

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# UNITED STATES PATENT OFFICE.

JOSEPH F. NETTLETON, OF BRANFORD, CONNECTICUT.

IMPROVEMENT IN DEVICES FOR CAPPING AND UNCAPPING CARTRIDGES.

Specification forming part of Letters Patent No. **138,180**, dated April 22, 1873; application filed April 3, 1873.

*To all whom it may concern:*

Be it known that I, JOSEPH F. NETTLETON, of Branford, in the county of New Haven and State of Connecticut, have invented a new Improvement in Cartridge-Primers; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a side view; Fig. 2, a vertical central section.

This invention relates to a device for placing upon cartridge-shells the cap or primer which is inserted into a cavity upon the rear end or head of the shell prior to charging the shell. This requires considerable force in order to make the primer hold firmly in its place; and the invention consists in a cylinder or support to hold the shell, combined with a lever, the nose of which is centrally over the said cylinder, and constructed with a notch or projection upon the lever, so that when the rim of the cartridge passes the said notch it will be held and prevented from removal, and the said cylinder provided with a vertically-moving spindle for the purpose of ejecting or removing the exploded primer, the said notch acting as the resistance upon the shell to enable the said spindle to be forced sufficiently hard against the primer.

A is a cylinder, the diameter of the shell to be primed, with a ledge, B, at the bottom, upon which the open end of the shell rests, as seen in Fig. 2. From this ledge a post, C, extends up above the said cylinder, to the upper end of which, as at *a*, a lever, D, is pivoted. Within the cylinder A a follower, E, is placed, with a spindle, *b*, in its upper end, this spindle being in the center of the cylinder, and so as to be pressed up through a corresponding perforation in the head of the cylinder. A spiral or other spring, F, is arranged upon or above the follower, the tendency of which is

to hold the spindle within the cylinder. The follower is prevented from leaving the spindle by a stud, *d*, working in a slot in the cylinder. On the inner side of the lever and below the pivot a notch, *f*, is formed, in such a position that, when the shell is upon the cylinder, this notch will rest upon the head.

To prime a shell, place the shell upon the spindle H, as denoted in Fig. 2, set the primer in place and raise the lever to the position denoted at H, broken line, Fig. 2, the nose bearing upon the primer and forcing it into place; the shell is then removed for charging. When the cartridge has been discharged, or if, for other purposes, it is desirable to remove the primer, place the shell in the same position. In thus placing the shell, the rim will run down the face of the lever until below the pivot and approaching the notch *f*, it forces the lever back, as denoted at L, broken lines, until the head has passed the said notch; then the lever drops back, the notch extending over the head of the shell. Then take the lever, shell, and cylinder in one hand so as to hold the lever down, and strike upon the lower end or head of the follower, which will force the spindle through the head and eject or disconnect the primer, leaving the shell ready for a new primer.

I do not wish to be understood as broadly claiming a device for priming cartridge-shells in which a lever is employed to force the primer into place; but

I claim as my invention—

The herein described cartridge-primer, consisting of the cylinder A with its ledge B for the support of the shell, the lever D constructed with the notch *f*, and the follower E with its spindle *b* within the said cylinder, all substantially as set forth.

JOSEPH F. NETTLETON.

Witnesses:

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