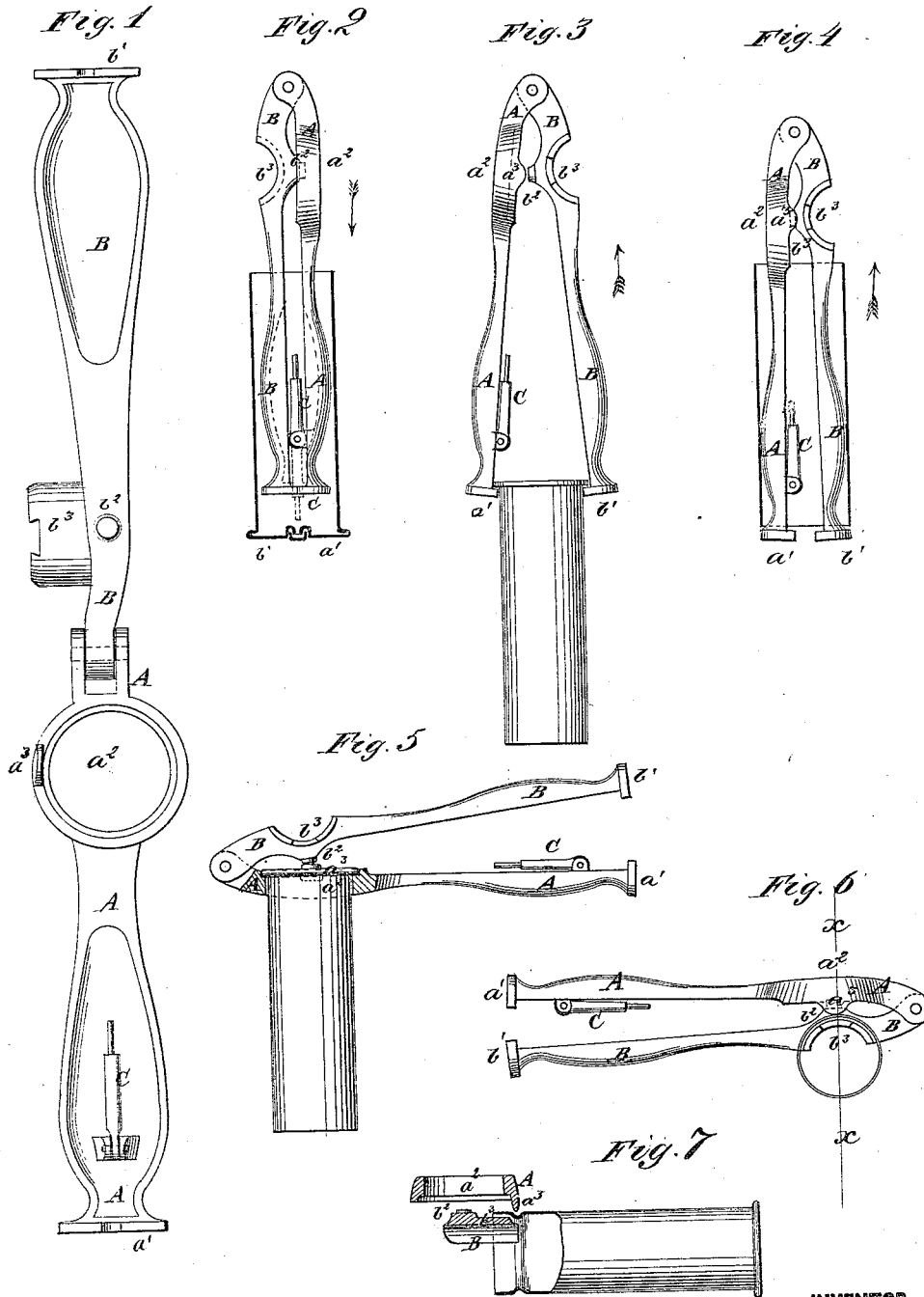


J. H. DUDLEY.

CARTRIDGE LOADING IMPLEMENT.

No. 188,872.

Patented March 27, 1877.



WITNESSES:

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JAMES H. DUDLEY, OF POUGHKEEPSIE, NEW YORK.

IMPROVEMENT IN CARTRIDGE-LOADING IMPLEMENTS.

Specification forming part of Letters Patent No. 188,872, dated March 27, 1877; application filed January 6, 1877.

To all whom it may concern:

Be it known that I, JAMES H. DUDLEY, of Poughkeepsie, in the county of Dutchess and State of New York, have invented a new and useful Improvement in Instrument for Capping, Uncapping, Loading, Grooving, and Withdrawing Cartridge-Shells, of which the following is a specification:

Figure 1 is a plan view of my improved instrument opened out. Fig. 2 is a side view of the same, arranged for use as a rammer, and showing in dotted lines the position of the needle when arranged for uncapping a cartridge-shell. Fig. 3 is a side view of the same, illustrating its use for withdrawing a cartridge-shell from a gun. Fig. 4 is a side view of the same, illustrating its use for withdrawing a cartridge-cylinder from a gun. Fig. 5 is a side view of the same, illustrating its use for recapping a cartridge-shell. Fig. 6 is a side view of the same, illustrating its use for grooving a cartridge-shell. Fig. 7 is a detail cross-section of the same, taken through the line *x x*, Fig. 6.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved instrument which shall be so constructed that it may be used as a rammer for loading a cartridge-shell, for capping a cartridge-shell, for removing an exploded cap from a cartridge-shell, for withdrawing a cartridge-shell from a gun-barrel, and the paper cylinder of a cartridge from a gun-barrel should the metallic base-piece pull off, and for grooving a cartridge-shell to prevent the charge from dropping out, and which shall be simple in construction, and convenient and effective in use.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A and B are the two parts of the instrument, which are hinged to each other at one end, and upon the outer ends of which are formed half-disks $a^1 b^1$, of semicircular or other form, and having notches formed in the centers of their inner or straight edges. With this construction, when the parts A B

are closed, the disks $a^1 b^1$ adapt it to be used as a rammer, as shown in Fig. 2.

The inner sides of the outer parts of the arms A B are concaved, as shown in Fig. 1, to give space for the needle C, which is hinged at one end to the inner surface of one of the arms, as A, in such a position that it may be turned outward to project through the notches in the half-disks $a^1 b^1$, as shown in dotted lines in Fig. 2, to adapt it for use for pushing an exploded cap from a cartridge-shell.

The straight edges of the disks $a^1 b^1$ project a little, so that they may be used for grasping the flange of a cartridge-shell to draw it from a gun-barrel, as shown in Fig. 3. In case a paper cartridge is used, and the metal base draws off, the disk end of the closed instrument is passed into the bore of the barrel through the paper cylinder, and is then partly opened, so that the outer edges of the disks $a^1 b^1$ may rest against the inner end of the said cylinder, and enable it to be drawn out, as shown in Fig. 4.

In one of the arms, as A, near its hinged end, is formed a round hole, a^2 , of sufficient size to receive the cartridge-shell, and which is rabbeted to receive the flange of said shell.

Upon the other arm, as B, is formed a slight inward curve, upon which is formed a projection or knob, b^2 , in such a position as to be directly opposite the center of the hole a^2 , so that when a cartridge-shell is placed in the said hole a^2 , and a cap is inserted in its seat, the projection b^2 , when the instrument is closed, may rest upon the head of the said cap and press it into place, as shown in Fig. 5.

Upon one side of the bent part of the arm B is formed a flange, b^3 , which is curved in the form of a portion of a hollow cylinder, so as to fit against the inner surface of a cartridge-shell.

Upon the outer edge of the flange b^3 is formed a notch to receive a lip, a^3 , formed upon the arm A at one side of the hole a^2 , so that when the cartridge-shell is placed upon the flange b^3 , and the lip a^3 is pressed down

upon it, by turning the instrument and the cartridge-shell upon each other, the said shell may have an inwardly-projecting bead formed around it, to prevent the charge from dropping out of said shell.

This arrangement is especially intended for paper cartridge-shells.

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

1. An instrument for capping, uncapping, loading, grooving, and withdrawing cartridge-

shells, consisting of needle C and hinged arms A B, the latter having notched disks $a^1 b^1$, hole a^2 , lip a^3 , knob b^2 , and curved flange b^3 , substantially as shown and described.

2. The hinged arms A B, provided with the curved flange b^3 and the lip a^3 , substantially as herein shown and described.

JAS. H. DUDLEY.

Witnesses:

JAMES T. GRAHAM,
WM. VAN ANDEN.