

W. W. ARNOLD.

CARTRIDGE LOADING IMPLEMENTS.

No. 179,888.

Patented July 18, 1876.

Fig. 1

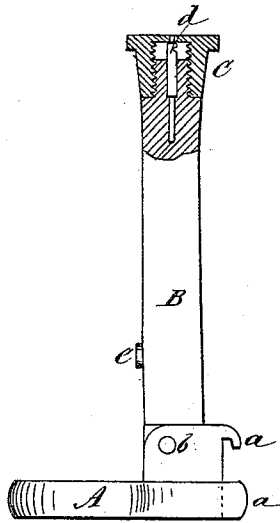


Fig. 2

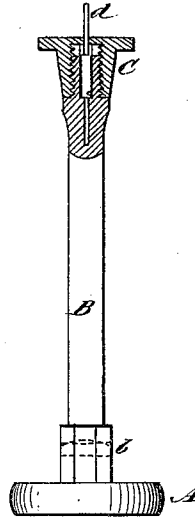
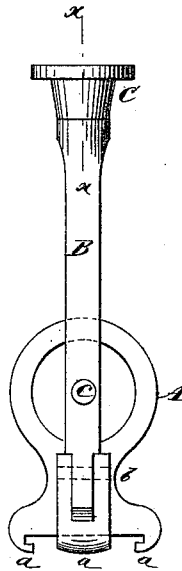


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM W. ARNOLD, OF RUSHVILLE, INDIANA.

IMPROVEMENT IN CARTRIDGE-LOADING IMPLEMENTS.

Specification forming part of Letters Patent No. 179,888, dated July 18, 1876; application filed June 26, 1876.

To all whom it may concern:

Be it known that I, WILLIAM W. ARNOLD, of Rushville, in the county of Rush and State of Indiana, have invented a new and Improved Cartridge-Manipulator, of which the following is a specification:

My invention relates to that class of instruments which are used in loading and capping metallic cartridges; and it consists of a lever combined with other devices, making a convenient instrument for loading and capping metallic cartridges, and for removing cartridges from the gun; also, for removing the spent cap from the cartridge.

In the drawing, Figures 1 and 2 are elevations, with portions cut away, on line *x x* in Fig. 3, and Fig. 3 is a top view of Figs. 1 and 2, with the lever folded down.

A is a ring, having hooks *a a a* formed on one side, which are capable of engaging with the flange on the closed end of a cartridge-shell. A lever, B, is pivoted to the ring A, at *b*, and is capable of being folded down parallel with the face of the ring A. *c* is a small boss projecting from the under side of the lever B, which is located centrally in relation to the ring A, when the lever B is folded down. C is a head screwed onto the end of the lever B, and has a diameter which is a little less than the internal diameter of the cartridge-shell. The end of the lever A is bored to receive a pin, *d*, which is shouldered, so that when it is not in use the smaller part of it will fit the smaller part of the hole in the lever; but when it is to be used, the head C is unscrewed, and the pin reversed, when the head is replaced, and the pin allowed to project through a hole drilled in the head for that purpose.

The manner of using my instrument is as follows: In filling cartridges, the head C is used to force the powder and wads home. Caps are placed on the cartridge by placing the cartridge-shell in the ring A, putting the cap on the "anvil" of the cartridge, and forcing it down with the lever B.

After a cartridge has been discharged, it may be removed from the gun by placing the hooks *a a a* on the flange at the end of the shell, and drawing it out by the ring A or lever B.

The spent cap is removed from the cartridge-shell by forcing the pin *d* against it from the inside of the shell, the head C serving as a guide, insuring its entrance at the cap-aperture.

In my improvement I combine the advantages of four separate tools, viz: a loader, a capper, a cartridge-remover, and a cap-remover. It is simple, effective, and inexpensive.

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

1. A cartridge-manipulator, consisting of a ring with hooks attached, and a lever carrying a boss for capping, and a head for loading, and a pin for uncapping, made and operated substantially as shown and described.

2. The combination of the ring A, hooks *a*, levers B, head C, and pin *d*, as specified.

WILLIAM W. ARNOLD.

Witnesses:

FINLEY B. PUGH,
ROBERT W. COX.