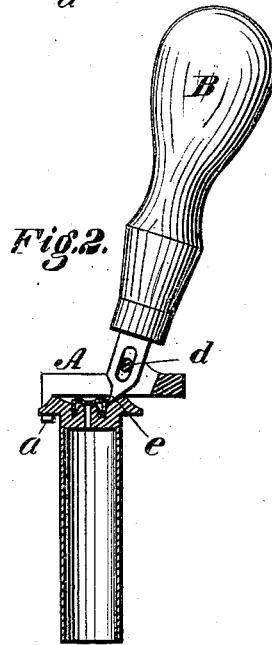
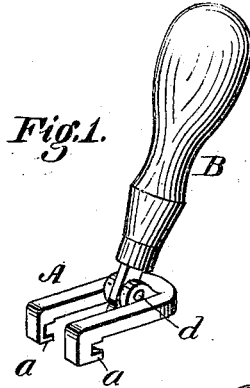


G. W. HADLEY.
Cap Extractor.

No. 201,774.

Patented March 26, 1878.



Witnesses:

Donas S. Twitchell.
S. M. Madden

Inventor:

Geo. W. Hadley
By his atty.
Dodger Sm

UNITED STATES PATENT OFFICE.

GEORGE W. HADLEY, OF CHICOPEE, MASSACHUSETTS, ASSIGNOR TO THE
MASSACHUSETTS ARMS COMPANY, OF SAME PLACE.

IMPROVEMENT IN CAP-EXTRACTORS.

Specification forming part of Letters Patent No. 201,774, dated March 26, 1878; application filed
March 11, 1878.

To all whom it may concern:

Be it known that I, GEORGE W. HADLEY, of Chicopee, in the county of Hampden and State of Massachusetts, have invented certain Improvements in Cap-Extractors, of which the following is a specification:

This invention relates to a tool of peculiar construction for the purpose of removing external caps or primers from cartridge-shells; and consists in the combination of a stirrup or base-plate adapted to fit upon the head of the shell, with a hand-lever pivoted in said stirrup and provided with a pointed blade, which may be engaged against the end or edge of the primer for the purpose of lifting the same from the shell, as hereinafter more fully described.

Figure 1 represents a perspective view of my improved implement; Fig. 2, a cross-section of the same in its operative position upon the cartridge.

A represents the stirrup or base-plate, of a U form, having the ends of its arms provided with hooks or lips *a*, adapted to engage under the flange or head of the cartridge, while the stirrup rests flatly upon the base or head of the same, as shown in Fig. 2.

B represents a lever, pivoted near its lower end upon a pin, *d*, mounted in ears on the base-plate or stirrup A.

As shown in Fig. 2, the lever is provided with a slot to receive the pivot, so that it may have a slight longitudinal movement thereon; and at its lower end it is provided with a sharp point or lip, *e*, of the form represented in the drawing, or of any other suitable form, to engage with the primer or cap of the cartridge.

In using the device, the stirrup is placed upon the head of the cartridge, with the hooks engaged under the flange of the same, and the point of the lever inserted against or under

one edge of the primer, as shown in Fig. 2, and then the lever depressed, whereby its point or nose is caused to engage firmly against or within the primer, and lift the same from its seat.

It will be observed that the device is extremely cheap and simple, that it may be quickly applied, and that the lever is enabled to take a very firm and secure hold upon the primer, so that the latter may be withdrawn readily and with certainty in all cases.

I am aware that various tools have been devised for the purpose of extracting primers from cartridges, and that certain tools of this class are provided with devices to enter the center of the primer, and pass thence outward through its edge, in order to lift it from its place.

Disclaiming, therefore, the broad idea of a tool having a point to remove the primer,

What I claim is—

1. The tool for removing caps or primers from cartridges, consisting of a base-plate or stirrup, A, adapted to engage with the flange of the cartridge, and the pointed lever B, pivoted to said plate, substantially as shown and described.

2. The base-plate A, adapted to engage with the head of the cartridge, in combination with a slotted pointed lever, B, pivoted therein.

3. In a cap-extractor, the combination of the base-plate or stirrup, adapted to engage with the head of the cartridge, and a lever or extractor, B, pivoted therein, and arranged to engage with the outer edge of the primer, substantially as shown.

GEORGE W. HADLEY.

Witnesses:

CHAS. J. BELLAMY,
HENRY J. BOYD.