

H. A. KINGSLAND.  
Implement for Capping and Uncapping Cartridges.

No. 202,831.

Patented April 23, 1878.

Fig. 1.

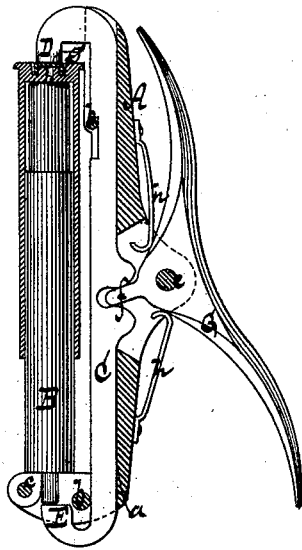


Fig. 2.

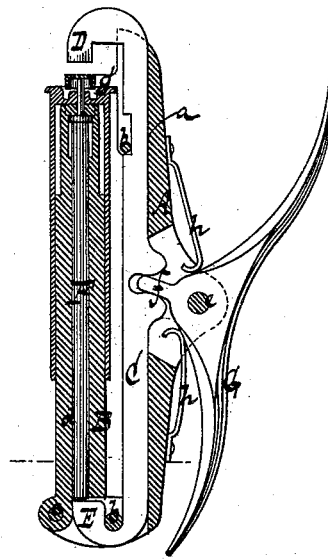


Fig. 3.



Witnesses.

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# UNITED STATES PATENT OFFICE.

HUGH A. KINGSLAND, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN IMPLEMENTS FOR CAPPING AND UNCAPPING CARTRIDGES.

Specification forming part of Letters Patent No. 202,831, dated April 23, 1878; application filed March 1, 1878.

To all whom it may concern:

Be it known that I, HUGH A. KINGSLAND, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Devices for Capping and Uncapping Cartridges, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal central section of my instrument, showing the position of the parts in capping. Fig. 2 is a like section thereof, showing the position of the parts in uncapping. Fig. 3 is a cross-section of the same.

Similar letters indicate corresponding parts.

My invention relates to the construction of devices for forcing the cap or primer into its seat in the head of a cartridge-shell, and also for ejecting the spent cap from the shell.

It consists in a suitable stock, a shell-holder, which is hinged to such stock at one end, so that it is susceptible of swinging in and out, a slide, which is guided on the stock and constructed with a capping-head, and suitable means for actuating the slide, the whole being combined in such a manner that when the shell-holder is swung out on its hinge a cartridge-shell can be placed on the free end thereof, whereas, if a cap or primer is placed into its seat in the head of the shell and the holder is then returned to its normal position, the cap can be forced into its seat by moving the slide, so as to bring the capping-head in contact with the cap. The slide is also constructed with an uncapping-head, and the shell-holder has combined therewith a longitudinal movable rod, which is located in a central hole extending throughout the holder, and is made of such length that, when a shell containing a spent cap is placed on the holder, the rod protrudes on the rear end of the holder; and hence, by moving the slide so as to bring the uncapping-head in contact with the rod, the latter is driven forward and the cap is ejected from the shell.

In the drawing, the letter A designates the stock of my instrument. B is the shell-holder, and C is the slide. The stock A is provided with a guide-groove, *a*, to receive the slide C, and the latter is confined in the groove by trans-

verse pins *b*. One end of the holder B is hinged to the stock A by a pivot, *c*, and in its normal position the holder lies against the stock, as shown. I make the holder B, by preference, of a cylindrical form, so that it conforms to the shape of a cartridge-shell, and of a corresponding or less diameter than the shell.

On the slide C are formed two heads, D E, one of which I term the "capping-head," and the other the "uncapping-head." These heads are formed by curving the slide C upward at its opposite ends, and they are situated exterior of the respective ends of the shell-holder B, as shown.

In the shell-holder B is formed a central hole, *d*, which extends throughout such holder; and in this hole is situated a rod, F, which is so arranged that it is capable of a slight longitudinal movement, but at the same time is not permitted to drop out of the holder, the forward end thereof, moreover, being made of corresponding or less diameter than the hole in the head of a cartridge-shell.

When it is desired to force a cap into its seat in the head of a shell, the holder B is swung out and the shell is placed on its free end. The cap or primer is then placed in its seat, and the holder returned to its normal position, when the slide C is actuated so as to bring the capping-head D in contact with the cap, as shown in Fig. 1, thus forcing the cap inward.

If, on the other hand, it is desired to eject a spent cap from its seat, the shell is placed on the holder in the same manner as before, whereby the rod F is caused to protrude on the hinged end of the holder. The slide is then moved so as to bring the uncapping-head E in contact with the rod F, by which means the latter is driven forward and the cap is ejected, as shown in Fig. 2.

In order to prevent the cartridge-shell from shifting on the holder B, I provide the stock A with lugs *g*, (one or more,) which are immediately next the head of the shell when the holder is in its normal position, as shown, and thus form stops or abutments for the shell.

For the purpose of actuating the slide C, I make use of a lever, G, which has its fulcrum on a pin, *e*, in the stock A, and is provided with a radial projection, *f*, which engages with the slide, the lever being kept in a central posi-

tion by the action of springs *h*; but if seen fit some other device may be substituted for this lever.

If desired, a spring may be combined with the rod *F*, for the purpose of keeping the same in its rear position when out of action.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the stock *A*, shell-holder *B*, hinged to the stock at one end, slide *C*, which is guided on the stock and constructed with a capping-head, *D*, and suitable means for actuating the slide, the whole being adapted to operate substantially as described.

2. The combination of the stock *A*, shell-

holder *B*, hinged to the stock at one end, movable rod *F*, located in a central hole extending throughout the shell-holder, the slide *C*, which is guided on the stock and constructed with a capping-head, *D*, and uncapping-head *E*, and suitable means for actuating the slide, the whole being adapted to operate substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 28th day of February, 1878.

H. A. KINGSLAND. [L. S.]

Witnesses:

W. HAUFF,

CHAS. WAHLERS.