

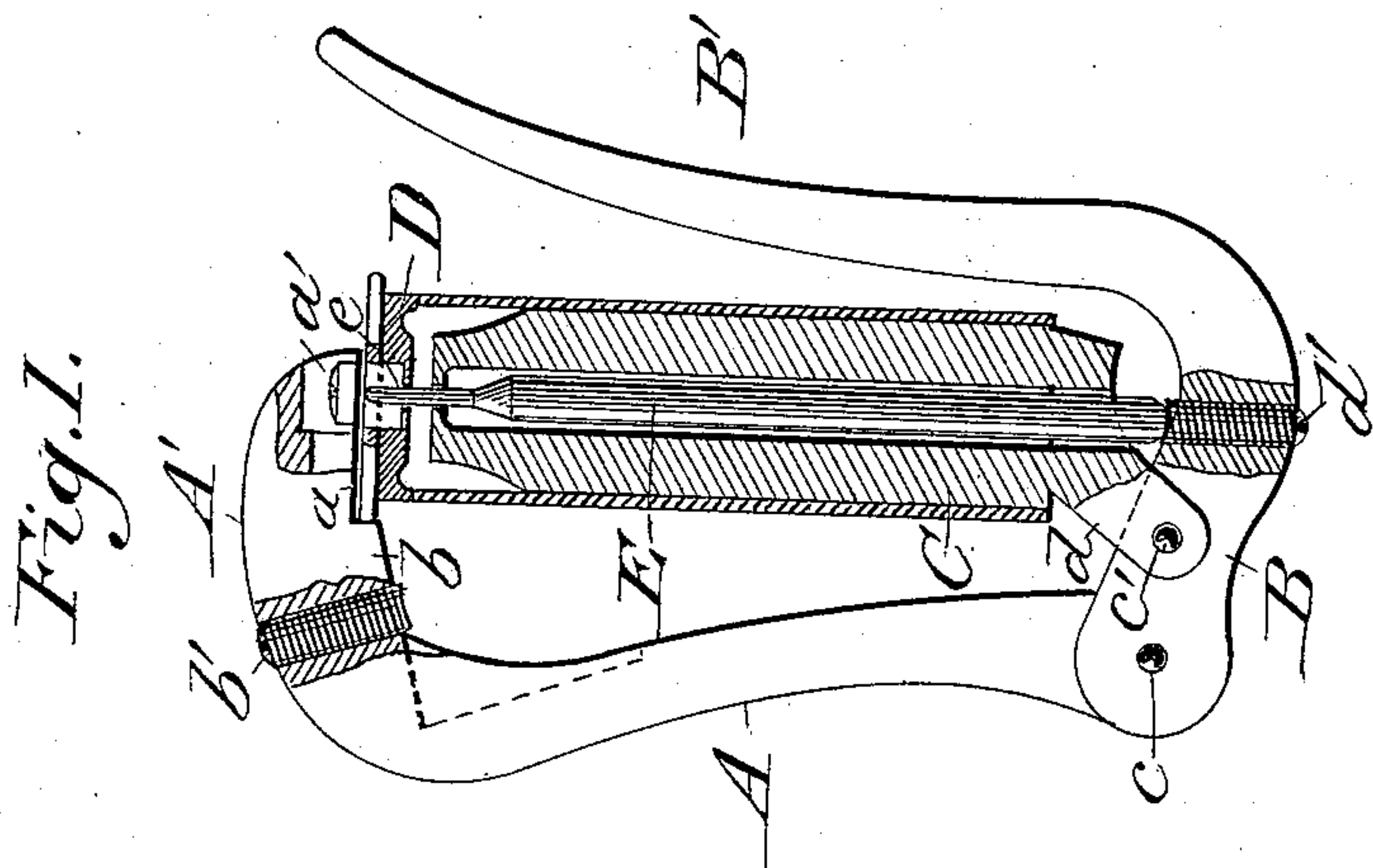
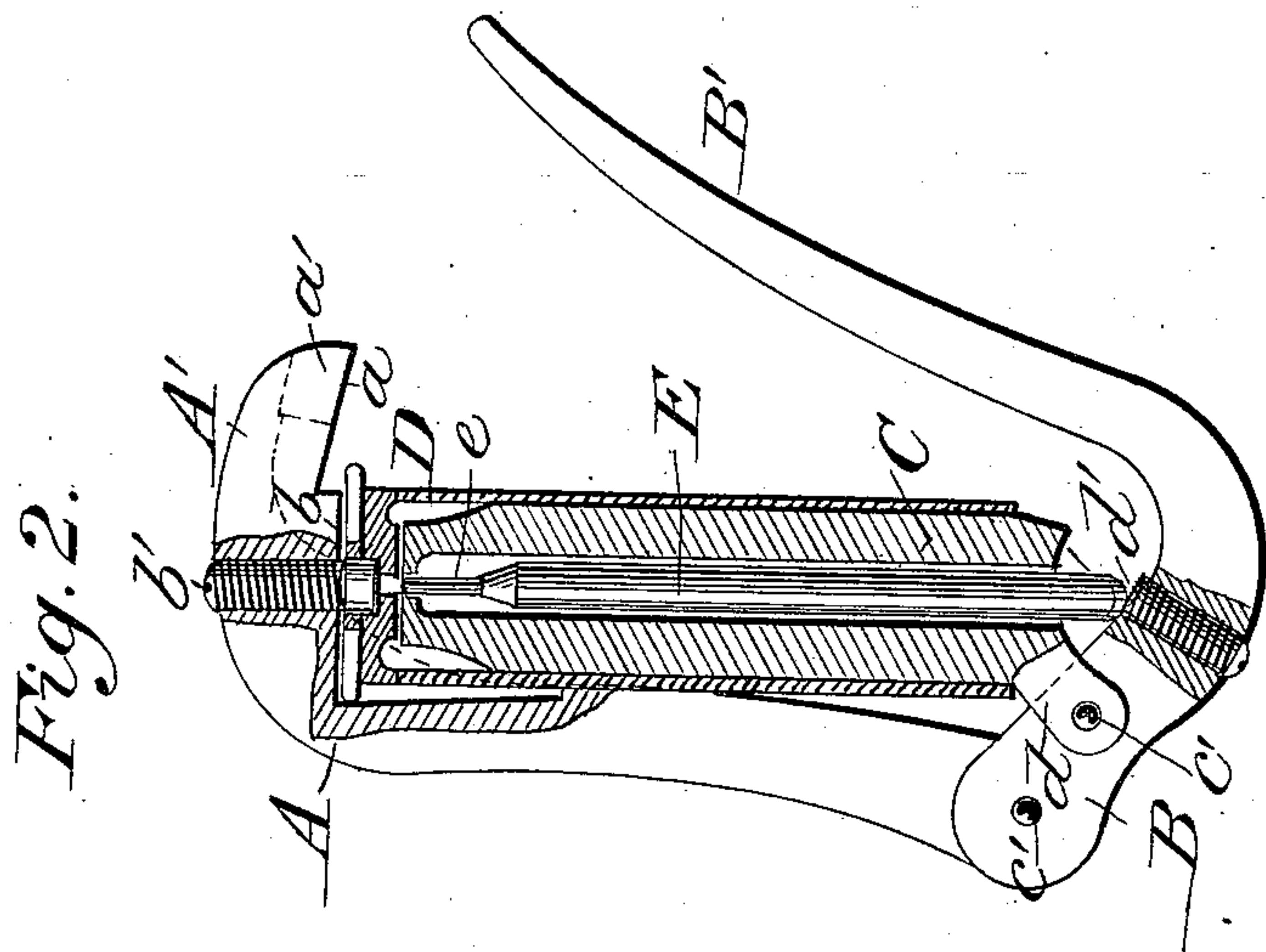
(No Model.)

W. M. FARROW.

CARTRIDGE CAPPING AND DECAPPING IMPLEMENT.

No. 387,868.

Patented Aug. 14, 1888.



Witnesses,

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CARTRIDGE CAPPING AND DECAPPING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 387,868, dated August 14, 1888.

Application filed December 14, 1887. Serial No. 257,881. (No model.)

To all whom it may concern:

Be it known that I, WILLARD MILTON FARROW, a citizen of the United States, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Implements for Capping and Uncapping Cartridge-Shells; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in that class of implements used for uncapping and recapping cartridge-shells. After the charge has been fired from such a shell the cap or primer remains in the recess at the base of the shell and must be dislodged and a new cap or primer put in its place before the shell is reloaded.

Various implements have been devised for this purpose, most of which required a stationary support, as a table or bench, to which they were secured, in order to work properly.

The principal object of the present invention is to produce an effective implement of this class which shall be portable and may be readily carried in the pocket of a person desiring to use it, thus enabling a hunter to relieve himself of the great weight of loaded cartridges it is sometimes necessary to carry, as by the aid of this implement the empty shells may be prepared for reloading at any time or place in which he may find it necessary to increase his stock of cartridges.

In carrying out this invention I form the body of the implement of an L-shaped piece of metal, one end being turned to one side to form the arm of the L, and provided with seats, against which the base of the shell rests while undergoing the operation of having the old cap removed and a new one put in place. One of these seats is provided with a recess, into which the old cap is pushed, and the other with a set-screw, which determines the depth in the recess of the shell-base to which the new primer is pushed. To the opposite end of this body from the arm is pivoted one end of a curved lever or elbow, which bends up into such a position that the operator can grasp

both the lever and body of the implement in the same hand. Upon this lever, near its junction with the body, is pivoted the shell-support, through which passes an axial plunger, one end of which rests upon an adjusting-screw in the lever, its opposite end passing through an orifice in the opposite end of said shell-support. From this construction it is evident that if a shell be placed upon the support with its base in the recessed seat of the body, and the curved lever and body brought toward each other, the adjusting-screw in the lever will come in contact with the end of the plunger, and from the fact that said screw is double the distance from the lever-fulcrum that the pivot of the shell-support is, the plunger will move much faster than the support, and will pass through the orifice in the base of the shell, forcing the old cap or primer off the shell and into the recess of the body-arm seat, against which the shell rests.

To apply a new cap or primer the shell is tipped backward, coming beneath the rear seat of the body-arm, so as to bring the center of its base beneath the adjusting-screw in said arm. A cap or primer, being applied in the recess of the shell-base, is forced into position by the screw when the lever and body are brought toward each other by the operator.

In the accompanying drawings, which illustrate the construction of my improved implement, Figure 1 is a side elevation of the implement, showing the position which the several parts occupy when it is employed in removing a cap or primer from the shell. Fig. 2 is a similar view of the implement, the parts being in the position they occupy when a cap or primer is to be applied to the shell.

The body part A of the implement is of metal cast or forged into the form shown. An arm, A', projects from one end, and is provided with the seats *a* and *b*, the seat *a* being furnished with a recess, *a'*, which receives the cap or primer when it is forced from the shell. The seat *b* has in its center an adjusting-screw, *b'*, which forces the new cap or primer into position upon the shell.

Pivoted to the opposite end of the body A from the arm A' is the lever B, bent nearly to a right angle at a short distance from the pivot *c*, by which it is fulcrumed to the part A. The extension of this lever beyond the bend forms

the handle part B', by which it is operated. From an inspection of the drawings it will be apparent that when the operator brings the hand part of the lever B toward the body that part of the lever between the fulcrum and bend will be raised; and pivoted to this part at c' is the lug d, projecting from one side of the lower end of the shell-post C. This shell-post is cylindrical in form and of such size as to fit loosely within the shell to be operated upon, its upper or free end being slightly tapered to facilitate the application and removal of the shell D from said post.

Extending longitudinally through the post is a perforation, in which is placed the plunger E, its lower end resting upon the adjusting-screw d', which passes through the lever a a short distance beyond its junction with the lug of the shell-post, and its upper end forming an expelling-pin, e, which, when the lever is brought into the position shown in Fig. 1 of the drawings, passes up through an opening in the top of the shell-post and forces the cap or primer from the shell placed thereon, when the lever-handle is forced toward the body of the implement.

To apply a new cap or primer the lever is thrown back, which operation allows the shell-post to be tipped so as to expose the base of the shell and allow a cap or primer to be placed thereon. It is then tipped back until the base of the shell is beneath the seat b, when upon closing the lever or moving it toward the body A the shell-post and shell are carried up and the cap or primer forced into its proper position by the screw b', which has been previously so adjusted as to give the required movement to the cap or primer. The lever being now thrown back and the shell-post tipped forward, the newly-primed shell is removed and another empty shell substituted.

I am aware that a shell-post having an axially-moving plunger and pivoted upon the frame of the implement so that it may swing

into position to cap or uncap a shell is not new, such a construction being shown in a patent to Richardson, bearing date November 11, 1884. I do not therefore claim the implement constructed as shown in said patent, but limit my claims to a cartridge-implement in which the shell-post is pivoted upon the operating-lever.

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

1. In a device for capping and uncapping cartridge-shells, the pivoted hollow shell-post with an axially-moving plunger arranged therein, in combination with the curved lever and angular recessed body to which said lever is pivoted, the shell-post being pivoted to the lever and adapted to swing the shell into position with relation to the body for capping or uncapping, as described.

2. In a device for capping and uncapping cartridge shells, the hollow shell-holder having an axially-moving plunger, said shell-post being pivoted to and in combination with the curved hand-lever provided with an adjusting-screw, so arranged that the position of the shell-holder with relation to the lever may be changed to bring the plunger in contact with the screw and force off the cap, substantially as set forth.

3. In a device for capping and uncapping cartridge-shells, the body provided with a recess to receive the cap when uncapping, and a screw to force the new cap into position, in combination with the oscillating shell-holder and curved lever pivoted together, all the parts being arranged to cap and uncap a cartridge-shell, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLARD MILTON FARROW.

Witnesses:

B. W. HALL,

C. G. WARNER.