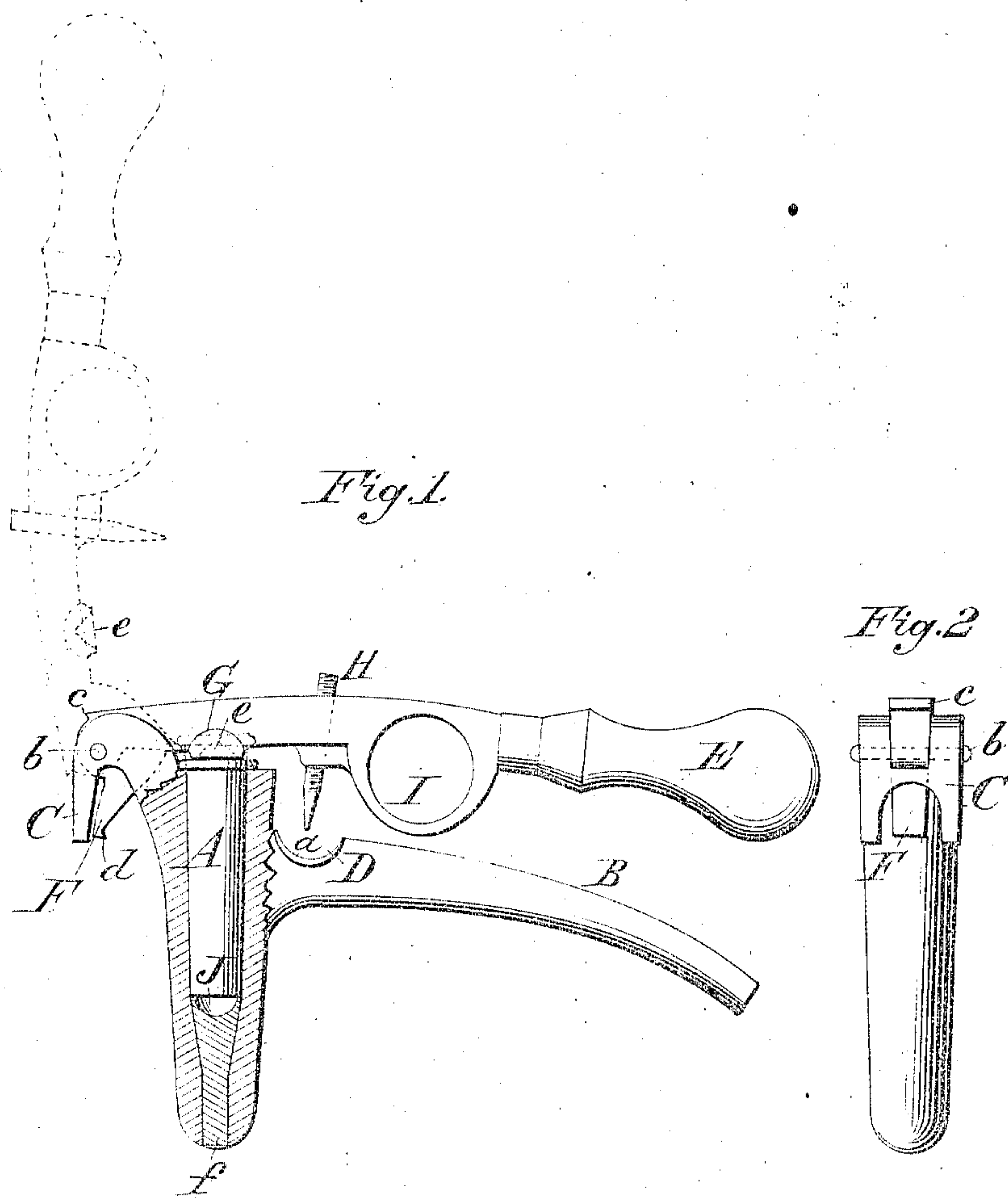


D. BROWN, Jr.
Tool for Capping, Uncapping, and Loading Cartridge
Shells.

No. 232,173.

Patented Sept. 14, 1880.



Attest.
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UNITED STATES PATENT OFFICE.

DANIEL BROWN, JR., OF JOHNSTON, RHODE ISLAND.

TOOL FOR CAPPING, UNCAPPING, AND LOADING CARTRIDGE-SHELLS.

SPECIFICATION forming part of Letters Patent No. 232,173, dated September 14, 1880.

Application filed January 7, 1880.

To all whom it may concern:

Be it known that I, DANIEL BROWN, JR., of the town of Johnston, in the county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Tools for Loading and Reloading Cartridge-Shell;

and I declare the following to be a specification thereof, reference being had to the accompanying drawings.

Figure 1 is a side elevation of my invention, showing the cartridge-chamber in section, and Fig. 2 is a front-end elevation of the same.

My invention relates to tools for loading and reloading central-fire cartridge-shells for rifles; and it consists of a combination of suitable parts in one implement, as hereinafter described, to form a device for seating the bullet in the shell, a device for setting the primer, and a device for extracting the exploded cap.

A barrel or cylindrical chamber, A, is permanently fixed upon the handle B, forming a downward-projecting part thereof. This chamber is bored to such depth and with such diameter as to receive a cartridge-shell of the desired caliber and length. The handle or lever B, extending at its outer end beyond the chamber A, terminates in two prong-like projections bent downward, preferably in a direction parallel to the central longitudinal line of the chamber A. These two prongs form the seat C to hold the shell during the operation of capping. The handle B, near its junction with the chamber A, has a semicircular groove, D, in a transverse direction, and of such size as to receive and support the shell during the extraction of the exploded primer. This groove has a downward slant outwardly, and terminates inwardly with a ridge, *a*, on the opposite side of which there is a sufficient indentation in the handle to receive the flange of the cartridge. The handle or lever E is pivoted to the handle B, within a slot of the latter, and has a quarter-revolution on the axis *b*, limited by the shoulder *c*. The handle E at its outer end is bent downward, forming at that end the cap-setter F. Upon the inner side of the setter F is a lip, *d*, which, when the handle E is raised, as indicated by dotted lines in the figure, serves to lift the shell out of the chamber A by coming into contact with the lower edge of a portion of the flange of the shell and raising it until the shell is free.

A presser, G, is made on the under side of the handle E, to crowd the shell down into the chamber. The presser G is countersunk at *e*, to prevent the explosion of the cap by undue pressure upon it when the shell is forced down into the chamber. A spur, H, having a screw-thread to adjust its length to compensate for wear, is set in the handle E at a suitable angle to enable it to cut into and extract the exploded cap.

A finger-guard, I, serves the double purpose of a stop to prevent too close approach of the handles together and the consequent injury of the presser G in contact with the barrel A, and also of a guard to prevent injury of the finger by the spur H in operating the tool.

In the accompanying drawings the position of the shell is shown in dotted lines.

Having described the parts of my invention, I will proceed to describe its uses.

To seat the cap or primer I insert the cap in its place within the primer-pocket of the shell, and place the shell between the prongs of the seat C, the flange resting against the inner sides thereof. The handle E must be slightly raised for this purpose. I then press down the handle E, which brings the cap-setter F forcibly against the head of the cap and crowds it home upon the anvil of the shell.

To seat the bullet in the shell I place the bullet into the mouth of the shell and insert both, the bullet downward, into the chamber A. As I bring down the handle E the presser G crowds the shell down into the chamber and drives the bullet into the shell to the desired distance.

If it is desired to seat a round ball instead of a conical one, I use a plug, J, which is movable and fits within the chamber A. This plug fills the bottom of the chamber to such an extent as to furnish a seat for the round ball. This plug has a stem, *f*, which extends downward through the bottom of the chamber, and is dislodged by the pressure of the finger outside, when it readily falls out through the mouth of the barrel A.

To lift the cartridge out of the chamber I raise the handle E into the position indicated by dotted lines, which brings the lip *d* up under the flange of the shell and raises it out of the chamber.

To decap the shell I lay it in a slanting di-

rection in the groove D, the ridge *a* serving as a rest for the flange of the shell. I bring down the handle E, and cause the spur H to enter the indentation in the primer made by the hammer in exploding it, and bearing down I cause the spur to cut through the cap, and then, by a twist of the shell, I draw off the cap from the anvil.

I claim as a novel and useful invention and desire to secure by Letters Patent—

1. The cartridge capping and uncapping implement herein described, consisting of a cartridge holding chamber, A, provided at one side with a handle or lever, B, having a groove, D, and at the other side with a bifurcated seat, C, a lever, E, having an angular arm or setter, F, presser G, for seating the cap,

and with a spur, H, for removing the cap from the shell, the two parts being pivoted together by a pivot, *b*, passing through the bifurcated seat and the end of the lever E, substantially as specified.

2. The lever E, with a bent head, one side of which has a cap-seating face, and the opposite side of which has a flange or lip, *d*, and forming, in combination with the lever B, seat C, and chamber A, a combined cap-seating and shell-extracting device, substantially as described.

DANIEL BROWN, JR.

Witnesses:

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