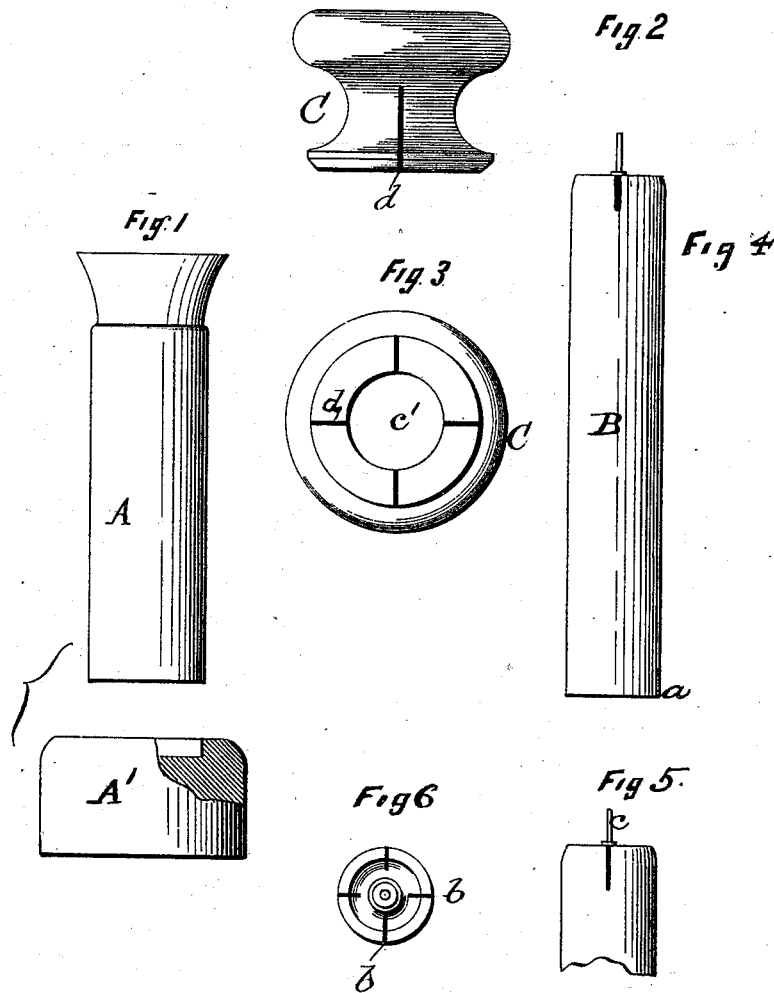


(Model.)

A. L. HOWARD.
CARTRIDGE LOADING IMPLEMENT.

No. 260,981.

Patented July 11, 1882.



Witnesses.
Horace M. Sanford
Andrew P. Keill

Inventor.
A. L. Howard
per A. O. Keill
Attorney

UNITED STATES PATENT OFFICE.

ARTHUR L. HOWARD, OF NEW HAVEN, CONNECTICUT.

CARTRIDGE-LOADING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 260,981, dated July 11, 1882.

Application filed September 8, 1880. (Model.)

To all whom it may concern:

Be it known that I, ARTHUR L. HOWARD, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Cartridge-Loading Implements; and I do hereby 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 letters or figures of reference marked thereon, which form a part of this specification.

My invention consists in certain improvements in the construction of cartridge-loading and uncapping devices, as hereinafter described and claimed.

In the drawings, Figure 1 represents in elevation a bell-mouthed cylinder or case within which the plunger or rammer works and the base upon which the bottom of the cartridge-case to be filled rests. Fig. 2 represents a side elevation of a slotted knob for the rammer, and Fig. 3 a bottom plan view thereof. Fig. 4 is an elevation of the plunger or rammer. Fig. 5 is an elevation of the lower end thereof, and Fig. 6 is an end elevation thereof.

A represents the bell-mouthed case, within which the material for filling the cartridges is placed, and within which the rammer works. A' represents the base or support upon which the bottom of the cartridge rests while being filled.

B represents the plunger for ramming or packing the powder in the shell.

C represents the knob or cap, which is centrally recessed at *c'* to receive either end of the plunger, and affords means whereby the im-

plement may be grasped by the hand while in use. This cap or knob has radial slots *d* formed in its sides and under face, as shown. The object of forming radial slots in the knob is to prevent either the plunger or knob splitting while ramming the load in the cartridge-shell, and also allow of the easy insertion therein and withdrawal therefrom of the plunger. As it is impossible to season the wood so it will not warp and twist in laying, and as the plungers are made to closely fit the knob or cap so they will not fall out, they are liable to swell and fit so tightly that it will be almost, if not quite, impossible, when the knob is not slotted, to remove and reverse the plunger when desired. By slotting the cap the plunger or rammer can be readily inserted therein, and when loading cartridge-shells said plunger will have a spring-like action within said cap, by means of which sufficient of the impact of the blow will be taken up to prevent the splitting of the plunger in use, and it can, moreover, be readily withdrawn from the cap when desired, as on drawing it out the split portions of the end of the cap will spring outward, and so admit of ready withdrawal of said plunger.

What I claim is—

In a cartridge-loading implement, the combination, with a reversible plunger or rammer, of a knob or cap, C, having radial slots *d* in its under face and sides, substantially as and for the purpose set forth.

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

ARTHUR L. HOWARD.

Witnesses:

ANDREW O'NEILL,
CARL F. SCHORER.