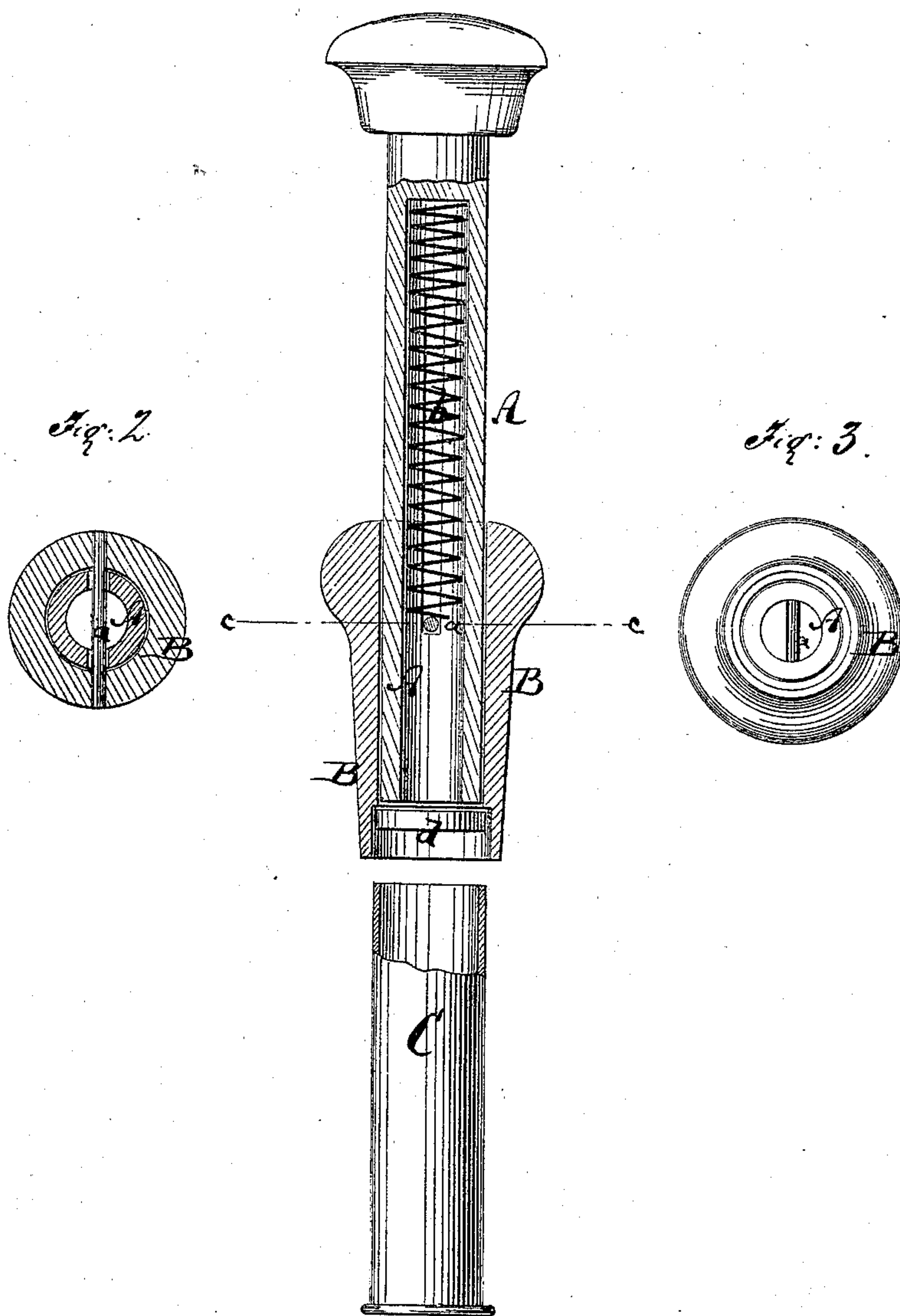


J. S. WARNER.  
Cartridge-Loaders.

No. 133,607.

Patented Dec. 3, 1872.

*Fig: 1.*



Witnesses:

*Chas. Nida*  
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# UNITED STATES PATENT OFFICE.

JOEL S. WARNER, OF OGDENSBURG, NEW YORK.

## IMPROVEMENT IN CARTRIDGE-LOADERS.

Specification forming part of Letters Patent No. **133,607**, dated December 3, 1872.

*To all whom it may concern:*

Be it known that I, J. S. WARNER, of Ogdensburg, in the county of St. Lawrence and State of New York, have invented an Improved Cartridge-Shell Loader for Breech-Loading Fire-Arms, of which the following is a specification:

Figure 1 represents a sectional side view of my improved shell-loader. Fig. 2 is a transverse section on the line *c c*, Fig. 1; and Fig. 3, an end view of the same.

The object of this invention is to produce a portable device but little larger than the cartridge-shell for placing the wads therein; and the invention consists in a tube counterbored to fit over cartridge-shell and provided with a spring-plunger.

In the drawing, A represents a plunger, cylindrical, slotted, and inserted within a short tube, B. A pin, *a*, fitted transversely through the tube, passes also through the slot of the plunger A. *b* is a spring concealed within the upper part of the plunger and bearing against

the pin *a*. A wad, *d*, is placed in tube B against the end of plunger, and the latter then forced into the shell C, which is fitted into the counterbored end of the tube B.

As soon as the plunger is relieved from pressure, spring *b* will withdraw it from shell and place it in position for the next operation.

It will be perceived that this construction allows the cartridge-loader to be readily carried about the person, as well as insures the quick and easy insertion of the wads.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A portable cartridge-shell loader, consisting of tube B, counterbored at the lower end and provided with a spring-retracted plunger, as described.

JOEL S. WARNER.

Witnesses:

JOHN H. BROWNLOW,  
JOS. TANNER.