

W. B. JOHNS.

Cartridge.

No. 17,792.

Patented July 14, 1857.

Fig 1

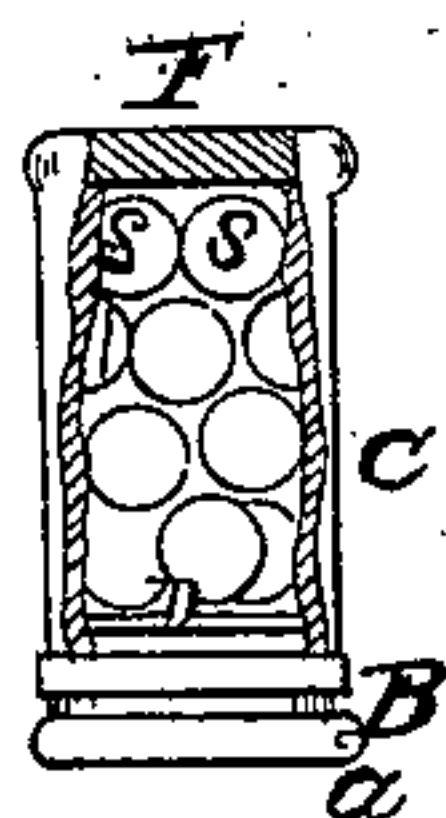


Fig 2

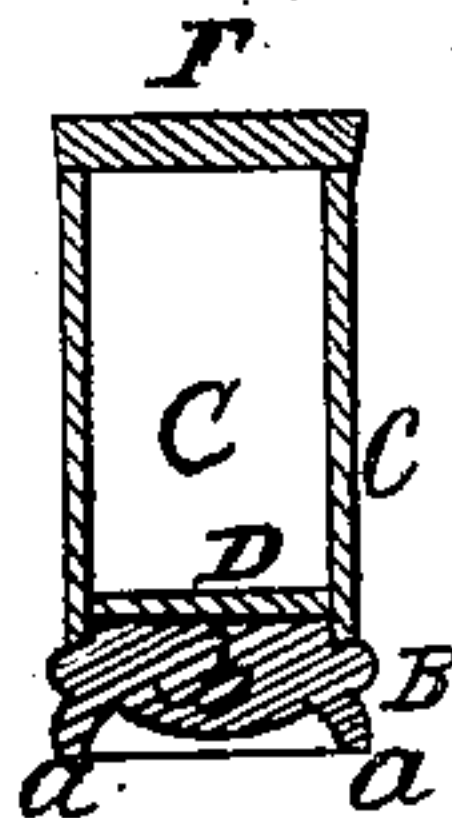


Fig 3



UNITED STATES PATENT OFFICE.

WILLIAM B. JOHNS, (CAPTAIN,) OF UNITED STATES ARMY.

IMPROVED SHOT-CARTRIDGE.

Specification forming part of Letters Patent No. 17,792, dated July 14, 1857.

To all whom it may concern :

Be it known that I, W. B. JOHNS, of the United States Army, have invented a new and useful Improvement in Shot-Cartridges ; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, reference being had to the annexed drawing, forming part of this specification, in which—

Figure 1 is a view showing cartridge filled. Fig. 2 is a section through axis of empty cartridge. Fig. 3 is a view of bottom piece.

The same letters denote the same part of the cartridge.

The cartridge consists of the following parts: First a leaden base, B, countersunk, as shown in Figs. 2 and 3, so as to leave a light flange, *a*, and a solid center, *b*. To this base is secured the case C, made of pasteboard. This constitutes the second part of the cartridge. The third part is a copper disk, D, resting upon the base B. The fourth part is a felt cover-

ing, F, resting on the shot S S, and held thereon by a paper covering the whole case.

The flange *a* of the base expands at the moment of discharge, and tightens the cartridge in the bore of the piece. The copper disk D is designed to give a stiffness to the seat of the shot, which, if lead alone were used, would render it necessary to so increase the thickness of the base B as to render it too heavy for the purpose designed. The disk of felt secures the mouth of the cartridge.

I claim—

The combination of the countersunk base-piece B, copper disk D, case C, and felt disk F, as hereinbefore set forth.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

WM. B. JOHNS,

Captain, United States Army.

Witnesses:

J. C. LAWRENCE,

JAS. HILLYER.