

A.C. HOBBS.

117173

Cartridge.

PATENTED JUL 18 1871

Fig 1.

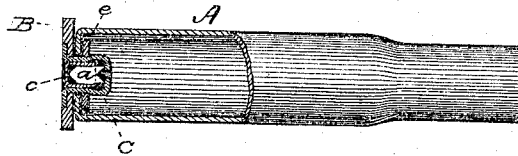


Fig 2.

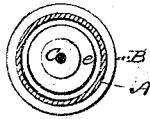


Fig 3.



Witnesses.

Harry King.
Phil. S. Dodge

Inventor.

A. C. Hobbs.
by Dodge Munn.
Atty.

UNITED STATES PATENT OFFICE.

ALFRED CHARLES HOBBS, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN METALLIC CARTRIDGES.

Specification forming part of Letters Patent No. 117,173, dated July 18, 1871.

To all whom it may concern:

Be it known that I, ALFRED CHARLES HOBBS, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain Improvements in Cartridge-Shells, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to metallic cartridge-shells; and the invention consists in a novel manner of constructing and arranging the parts which compose the shell, as hereinafter more fully explained.

Figure 1 is a side view of my improved cartridge-shell, having a portion shown in section; and Fig. 2 is a transverse section on the line *xx* of Fig. 1, looking toward the rear, and showing the inside face of the head.

In making my cartridge I first provide a shell, A, which is drawn up in the usual manner, but without any flange or head. In the center of the base of this shell A I punch a round hole of sufficient size to receive a cup, C, as shown in Figs. 1 and 2. I then provide a solid disk, B, which is of a sufficiently greater diameter than the body A to form the required flange, and make it in a hole corresponding with that in the base of the shell; and around this hole, on the back or outer face of the disk or head B, I form a recess to receive the flange of the cup C, as shown in Fig. 1. I then provide a cup, *c*, of the proper size to fill the hole in the disk B, and to protrude through the hole in the shell A sufficiently far to receive an anvil, *a*, which consists of a flat piece of metal of the form shown in Fig. 1, there being a small

hole through the inner end or bottom of the cup *c* to permit the fire from the cap to pass through. The outer or open end of the cup C is turned over to form a flange which fits into the recess in the head B, as shown in Fig. 1. I then provide a metallic washer, *e*, of the proper size to fit over the cup C within the shell A, and after uniting the various parts and slipping the washer over the inner end of the cup I then swage or press down the inner end of the cup sufficiently to cause it to hold the washer *e* tightly thereon, thus fastening the shell A, the cup C, and head B securely together. The diameter of the cup C is just sufficient to permit the cap *c* with its anvil *a* to be crowded into it from behind, as shown in Fig. 1, so that when the cap is fired the gas will press it laterally against the inner walls of the cup, thus forming a gas check, and preventing the escape of the gas at that point.

By these means I make a cartridge which is composed entirely of metal, with a solid head, and that is gas-tight when fired, and that can be recapped and fired repeatedly.

Having thus described my invention, what I claim is—

A cartridge-case, having its body and base drawn from a single piece of metal, with a solid disk, B, and the anvil-cup C secured thereto by a metallic washer, *e*, all as herein described.

ALFRED CHARLES HOBBS.

Witnesses:

A. J. HOBBS,
THOMAS B. FAIRCHILD.