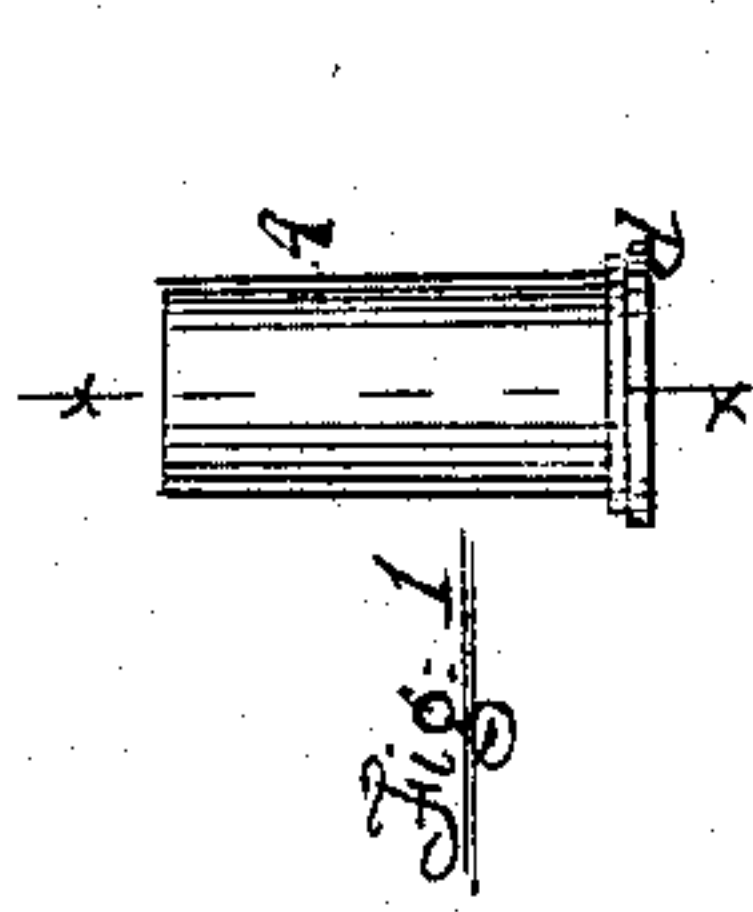
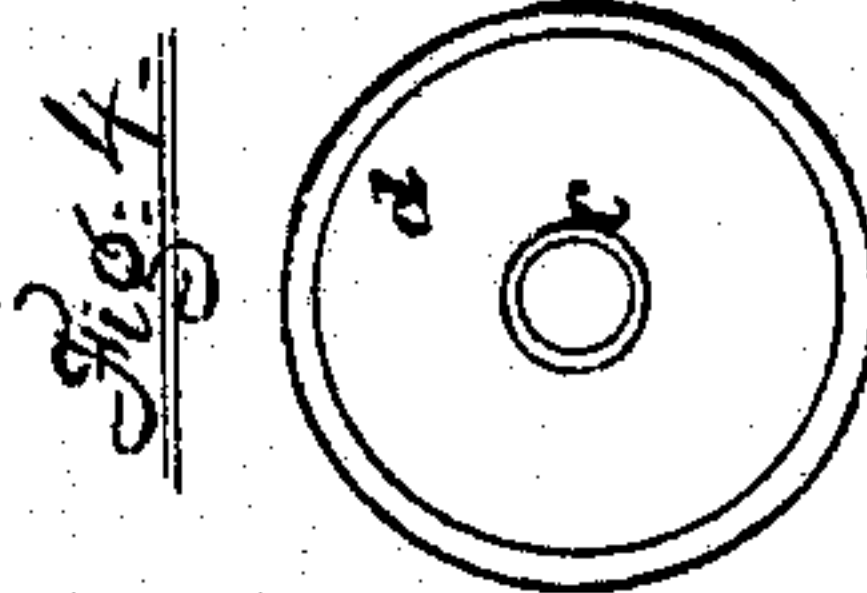
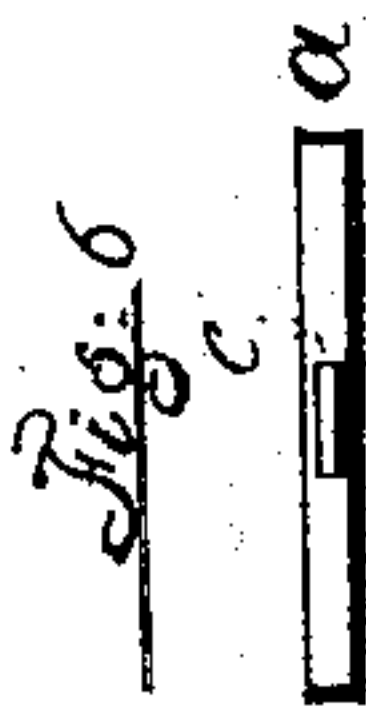
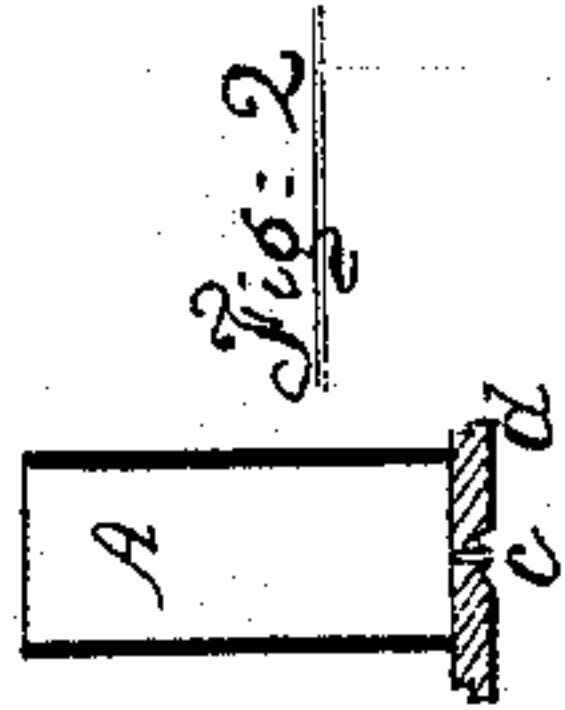


E. MAYNARD.

Cartridge.

No 61,225

Patented Jan. 15, 1867



Witnesses

James A. Burr
Edw. Ho. Young

Inventor

Edward Maynard

UNITED STATES PATENT OFFICE.

EDWARD MAYNARD, OF TARRYTOWN, NEW YORK.

IMPROVEMENT IN PRIMING METALLIC CARTRIDGES.

Specification forming part of Letters Patent No. 61,225, dated January 15, 1867; antedated December 5, 1866.

To all whom it may concern:

Be it known that I, EDWARD MAYNARD, of Tarrytown, in the county of Westchester and State of New York, have invented a new and useful Improvement in Metallic Cartridge-Caps; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an elevation of a metallic cartridge primed in accordance with my invention by the combination therewith of a primed detachable base-cap. Fig. 2 is a central vertical section in the line *xx* of Fig. 1. Fig. 3 is a similar section on an enlarged scale of the detachable primed base-cap; Fig. 4, an enlarged top or inner view of the same; and Figs. 5 and 6, similar enlarged sectional views of the detachable base-cap, illustrating modes of combining additional priming-receptacles therewith by riveting and soldering.

Similar letters indicate like parts in all of the figures.

The nature of my invention consists in priming a metallic cartridge, or a cartridge having a metallic bottom, with fulminate placed upon the inner side of a detachable cap, made to cover the base of the cartridge or a portion thereof.

The detachable cap may be carried apart from the cartridge already primed, or the fulminate may itself be carried separately from either cartridge or cap, and be placed in the cap as occasion may require, a receptacle being formed upon the inner side of the cap to receive and secure the fulminate.

When a cap so formed is placed upon the cartridge the fulminate will be thereby confined against a suitable vent in the bottom of the cartridge, and also perfectly protected from moisture or dampness.

The object of my invention is to provide such ready means of priming loaded metallic cartridges as that they may be transported for security without such priming, free from the liability of accidental explosion, and yet be with perfect ease and dispatch at any moment made ready for firing.

The thin metallic cup or cap *a* which I use

is made to fit closely over and upon the base of a cartridge having a metallic bottom, as seen in the drawings, or over a projection therefrom, as illustrated in the specification of improvements in metallic cartridges which I filed in the Patent Office on the 30th day of March, 1866, preparatory to obtaining Letters Patent thereon. With this cap I combine a charge of fulminate by placing it at such a point as shall correspond and coincide with a vent in the base of the cartridge, but which I prefer to make central, as illustrated in the drawings.

To secure, confine, and protect the fulminate when placed upon the inner side of the cap or base-cup *a*, I form a small receptacle, *c*, therefor. This receptacle may be formed in many ways. I contemplate all of them, provided that the receptacle shall not project externally beyond the base of the cap, but prefer to make it either by striking or stamping up an annular crease or encircling projection from the outer side to project from the inner side and inclose a small space for the fulminate, as illustrated in Figs. 3 and 4 of the drawings, or by fastening upon the inner side of said base-cup *a* a small, distinct priming-cup, riveted as illustrated in Fig. 5, or soldered in place, as seen in Fig. 6.

Instead of forming the receptacle in the manner indicated, the fulminate may be attached at a single point on the interior of the metallic base-cap by means of adhesive cement, glue, or varnish; or a film of fine gauze (either of metal wire or of linen or other fiber) or of any thin fabric or material which will allow the spark from the fulminate to pass freely through it may be employed for the purpose of retaining the fulminate in place, either of these methods being regarded as equivalents for the receptacle above described.

The cap or base-cups *a*, furnished with a priming-receptacle upon their inner side, may be provided and sold as a distinct article of manufacture apart from the cartridges with which they are to be used.

Having thus fully described my invention, I claim as a new article of manufacture, and desire to secure by Letters Patent—

A primed metallic cap for the base of a car-

tridge, when the fulminate is secured at a single point on the inner side of said cap, and the priming point or receptacle does not project externally therefrom beyond its base, all substantially in the manner and for the purpose herein set forth.

The foregoing specification of my improve-

ment in metallic cartridge-caps signed by me this 2d day of May, A. D. 1866.

EDWARD MAYNARD.

In the presence of—
DAVID A. BURR,
H. H. YOUNG.