

A. F. Cranston

Center Fire Cartridge
Springfield Mas

73877

Fig 1

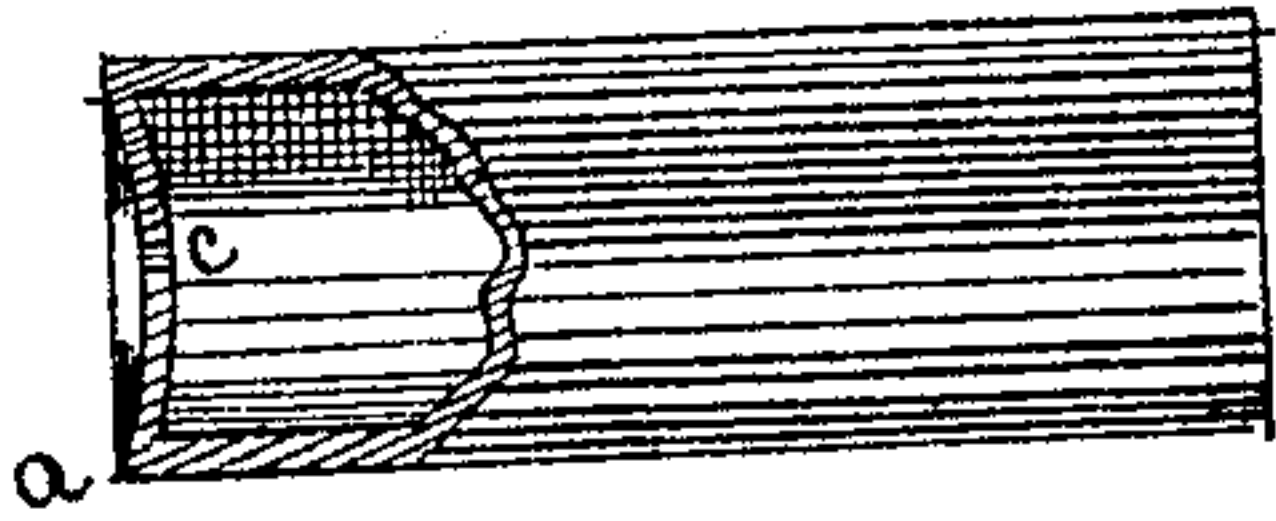
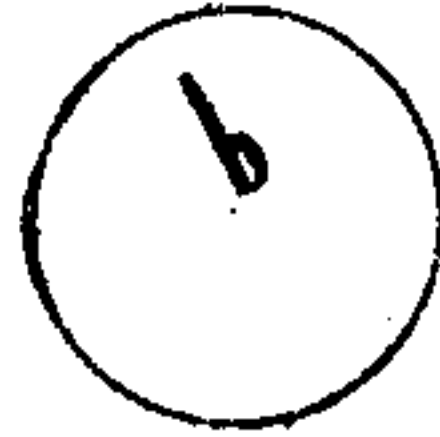
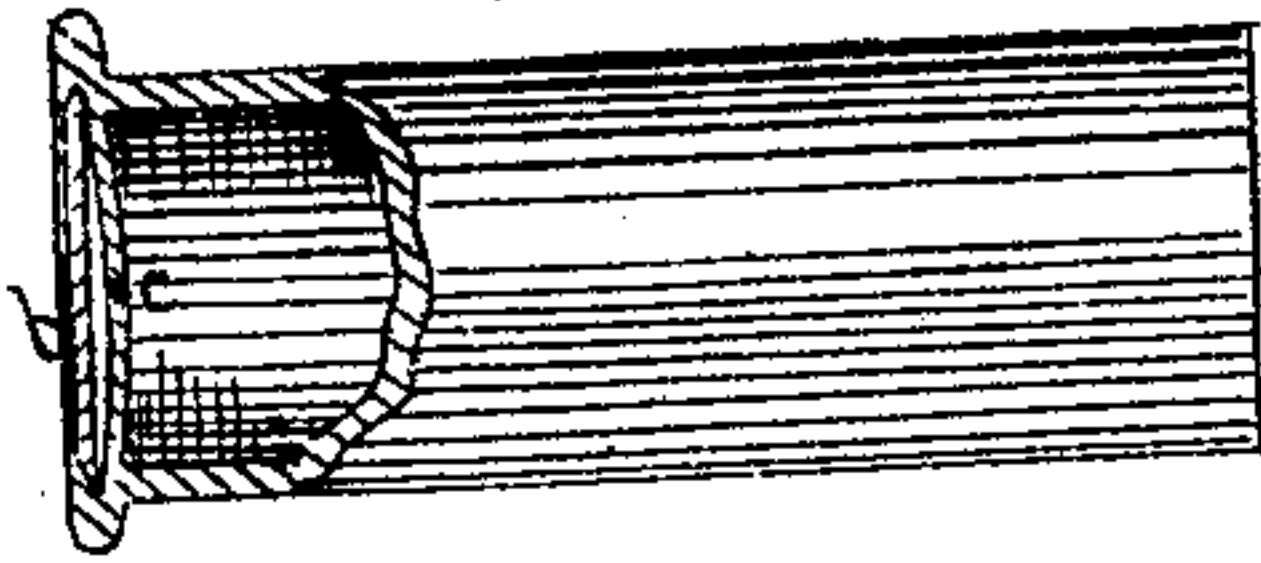


Fig 2



PATENTED

JAN 28 1868

Inventor

A. F. Cranston

By his atty

Harden & Hayden

Witnessed

Louis C. Rodier

Reed Hayden

United States Patent Office.

JAMES F. CRANSTON, OF SPRINGFIELD, MASSACHUSETTS.

Letters Patent No. 73,877, dated January 28, 1868.

IMPROVEMENT IN PRIMING METALLIC CARTRIDGES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES F. CRANSTON, of Springfield, Hampden county, Commonwealth of Massachusetts, have invented a certain new and useful Improvement in "Centre-Fire Cartridges;" and I do hereby certify that the following is a true and exact description thereof, reference being had to the drawings of the same, and letters of reference marked thereon. In the drawings—

Figure I shows the shell before the insertion of the fulminate and cover.

Figure II is a section of cartridge as finished.

My invention consists of a new and improved manner of forming the rear end of the cartridge-shell, for the purpose of holding the fulminate.

I form in the rear end of the shell, before the rim is formed, as shown in Fig. I, a depression, *a*, into which the fulminate is inserted, and place on the outside of it a cover, *b*. The shell is then headed, crimping the metal over and upon the cover, and fastening it in place. By this means the fulminate is thoroughly fastened in place, and a very strong head formed by the arrangement of the metal, as shown in Fig. II. An opening, *c*, is left through the centre of the head of the shell, for the fire to communicate to the powder.

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

The manner of fastening in the fulminate in a metallic-cartridge shell, by means of the cover *b*, attached upon the outside of the shell, substantially as described.

JAMES F. CRANSTON.

Witnesses:

R. F. HYDE,

EDWARD H. HYDE.