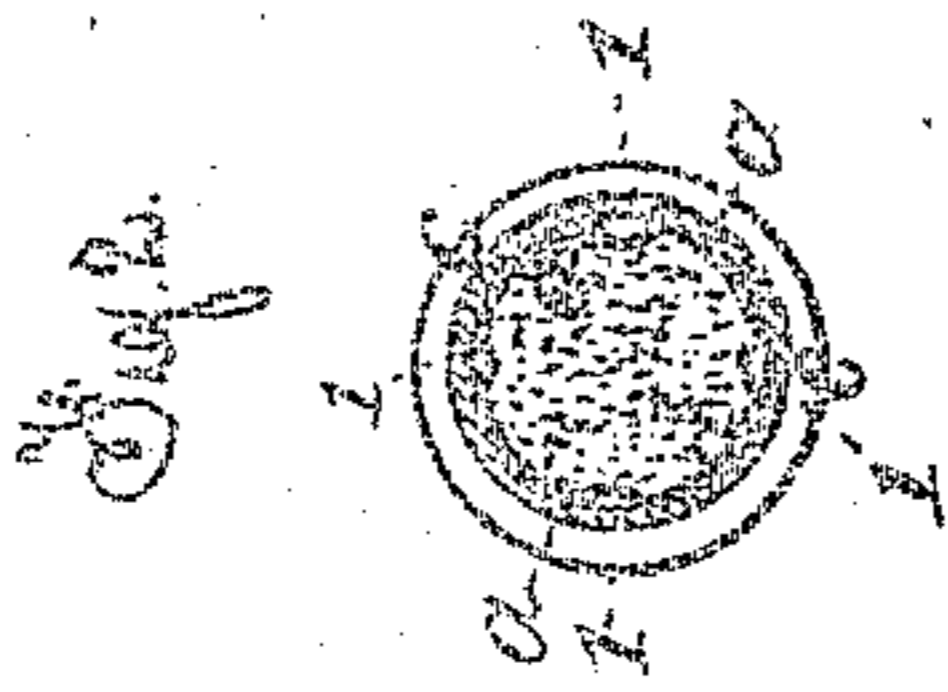
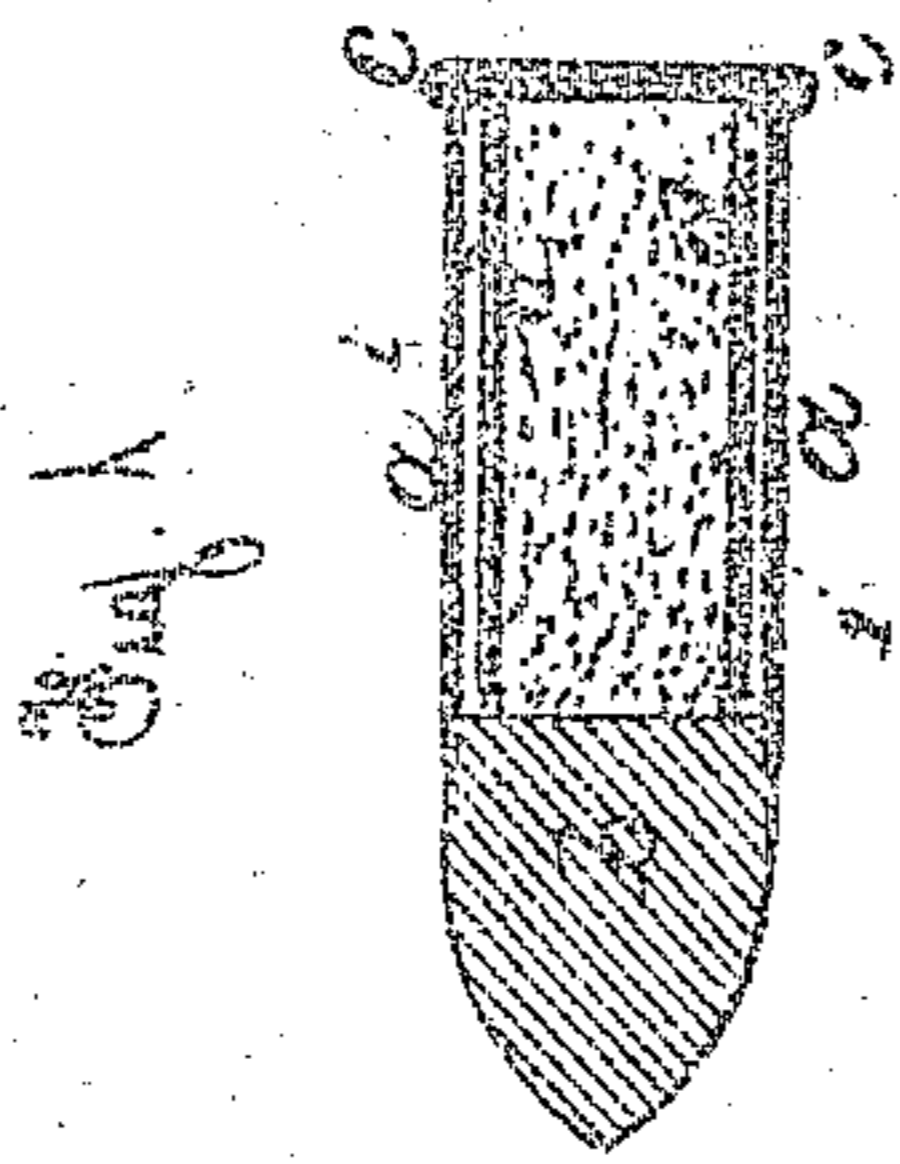


C. J. Bergen
Cartridge.

No. 42815.

Patented May 17, 1894



Witness.

Wm. H. Bush
James Watson

C. J. Bergen

UNITED STATES PATENT OFFICE.

CORNELIUS J. BERGEN, OF BROOKLYN, NEW YORK, ASSIGNOR TO MOORE'S PATENT FIRE ARMS COMPANY, OF SAME PLACE.

IMPROVEMENT IN METALLIC CARTRIDGES.

Specification forming part of Letters Patent No. 42,815, dated May 17, 1864.

To all whom it may concern:

Be it known that I, CORNELIUS J. BERGEN, of Brooklyn, in the county of Kings and State of New York, have invented and made a certain new and useful Improvement in Cartridges for Fire-Arms; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a longitudinal section, and Fig. 2 is a cross-section, of my improved cartridge, said figures being on a larger scale to represent the parts more clearly; and similar marks of reference denote the same parts.

Cartridges have heretofore been made with a percussion-pill at the rear or base of the ball, to ignite the powder at the front end, and various devices, such as projecting tubes or tubes, have been employed to ignite the powder at the front end immediately in the rear of the ball, in order that the effective force of the gunpowder may be obtained by the powder burning back toward the breech while in a consolidated state, instead of being scattered in the barrel, as the ball progresses, in consequence of the ignition taking place contiguous to the breech.

The nature of my said invention consists in a double metallic cartridge-case containing a channel or channels extending from the fulminating material to the front portion of the powder near the base of the ball, whereby the metallic breech-loading cartridge is adapted to the ignition of the powder at this point,

producing the advantageous action of the powder above named.

In the drawing, *a*, is the ordinary metallic cartridge-case, of any suitable size or shape, receiving the ball *b*. *c* is the flange containing the fulminating material; but it will be evident that this fulminating material might be contained in a teat or nipple, or applied in any other convenient way to the cartridge. *d* is a metallic cylinder, closed at the rear end, formed with creases or grooves *l* lengthwise of its sides, (one or more such grooves may be employed,) forming a channel between the two cases for conveying the flame from the fulminate to the base of the ball, at which point said channel terminates with an opening, through which the fire reaches the powder. Said opening may be formed by a notch in the case or cylinder *d*, or said cylinder may stop sufficiently short of the base of the ball to leave the necessary opening.

What I claim, and desire to secure by Letters Patent, is—

A double metallic cartridge-case, provided with a channel or channels extending from the fulminating material to the front portion of the powder, substantially as specified.

In witness whereof I have hereunto set my signature this 26th day of January, A. D. 1864.

CORNELIUS J. BERGEN.

Witnesses:

H. N. BRUSH,
GEO. A. HICKCOX.