

W. H. ELLIOT.
Cartridge.

No. 35,872.

Patented July 15, 1862.

Fig. 1.

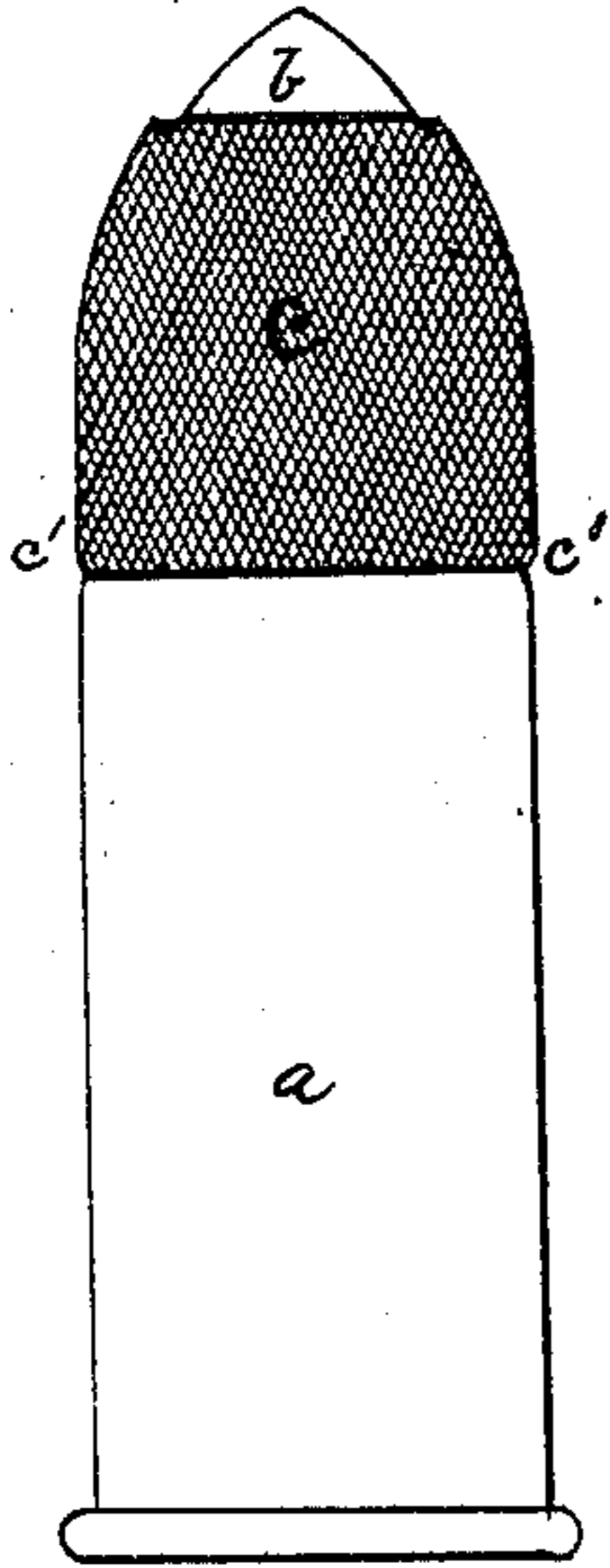


Fig. 2.

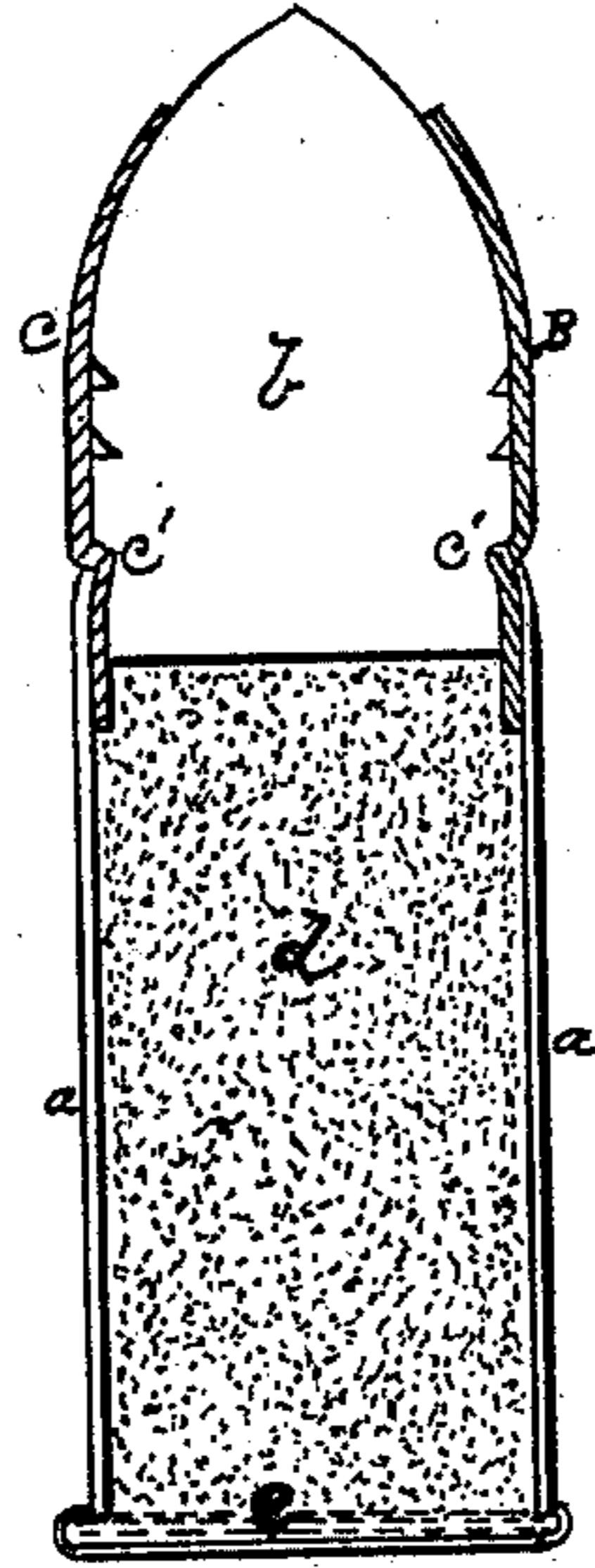
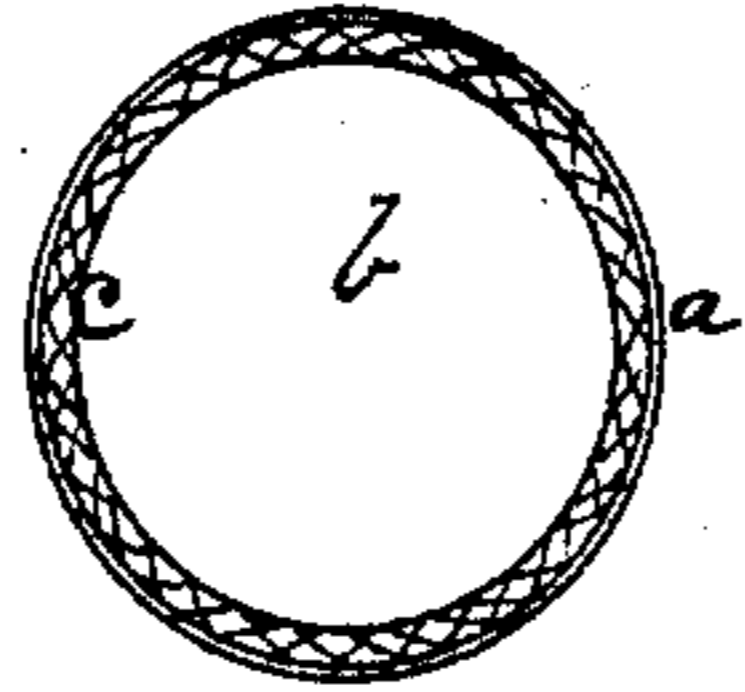


Fig. 3.



Witnesses.

G. F. Nichols
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UNITED STATES PATENT OFFICE.

WILLIAM H. ELLIOT, OF PLATTSBURG, NEW YORK.

IMPROVEMENT IN PATCHED CARTRIDGE.

Specification forming part of Letters Patent No. 35,872, dated July 15, 1862.

To all whom it may concern:

Be it known that I, WM. H. ELLIOT, of Plattsburg, in the county of Clinton, in the State of New York, have invented a new and Improved Cartridge; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Similar letters of reference indicate the same devices in all the figures.

To enable others skilled in the arts to comprehend, make, and use my invention, I will proceed to describe its nature, construction, and operation.

The nature of my invention consists in a certain novel construction and combination of the several parts of a cartridge for a breech-loading target-rifle, by which I obtain an accuracy in a breech-loading arm fully equal to a muzzle-loader.

Figure 1 is an elevation of my improved cartridge. Fig. 2 is a vertical section of the same. Fig. 3 is a horizontal section of the same.

a, cartridge-shell; *b*, ball; *c*, tubular patch; *d*, powder; *e*, fulminate; *c'*, shoulder upon the ball which receives the end of the shell.

My improved cartridge is constructed as follows: The shell *a* is made of copper, and its end or mouth is squared off by machinery with great accuracy; and the ball is formed in accurate molds, with a shoulder at *c'*, which receives the end of the cartridge-shell. After the fulminate and powder have been placed

in the shell, the ball, covered by the tubular patch, is then placed in its mouth, and the copper of the shell closed tight around both patch and ball at *c'*, to protect the powder from moisture, and also to hold the ball and shell in a correct position in relation to each other. In a cartridge thus constructed, the axis of the ball is exactly in the axis of the shell, and when it is introduced into the chamber of the gun the axis of the ball will be exactly parallel with the bore of the barrel. This is one of the essential conditions of correct shooting.

Cartridges constructed in this manner, without the tubular patch, have been known for several years to be the safest, surest, and most powerful of any in use, and by the employment of my patch they become the most accurate.

The tubular or seamless patch has the advantage of being of equal thickness all around the ball, and therefore does not interfere with the position of the ball in relation to the bore of the barrel.

Having described my invention, what I claim, and wish to have secured to me by Letters Patent, is—

The combination, in one cartridge, of the shell, ball, patch, powder, and fulminate, as an article of manufacture and trade.

WM. H. ELLIOT.

Witnesses:

G. F. NICHOLS,
CHARLES BARNARD.