

C. E. SNEIDER,
SHOT CARTRIDGE.

No. 102,984.

Patented May 10, 1870.

Fig. 1.

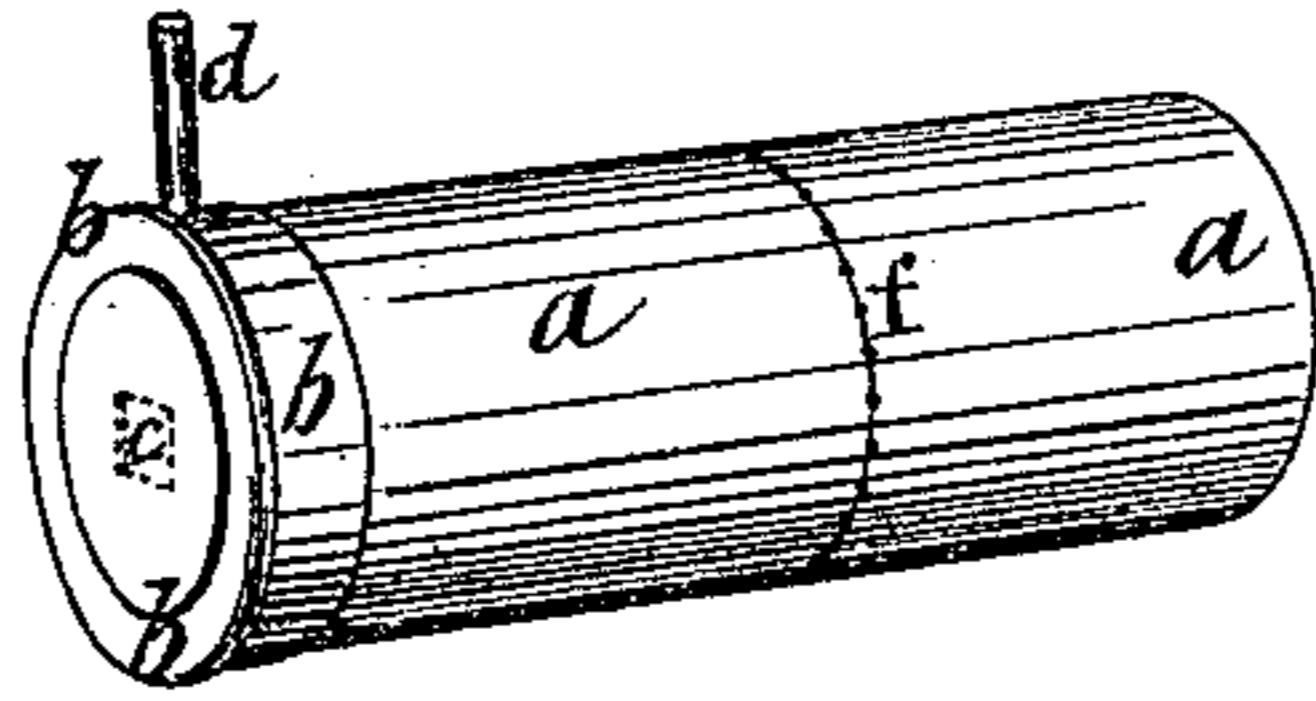


Fig. 2.

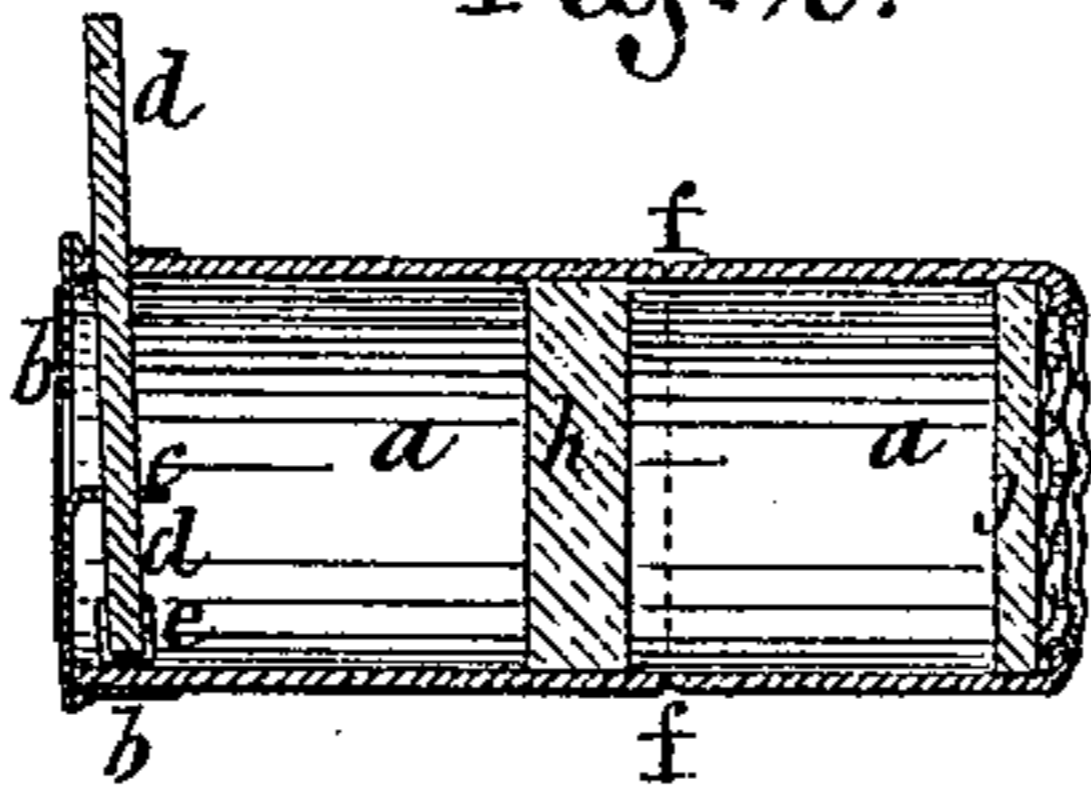
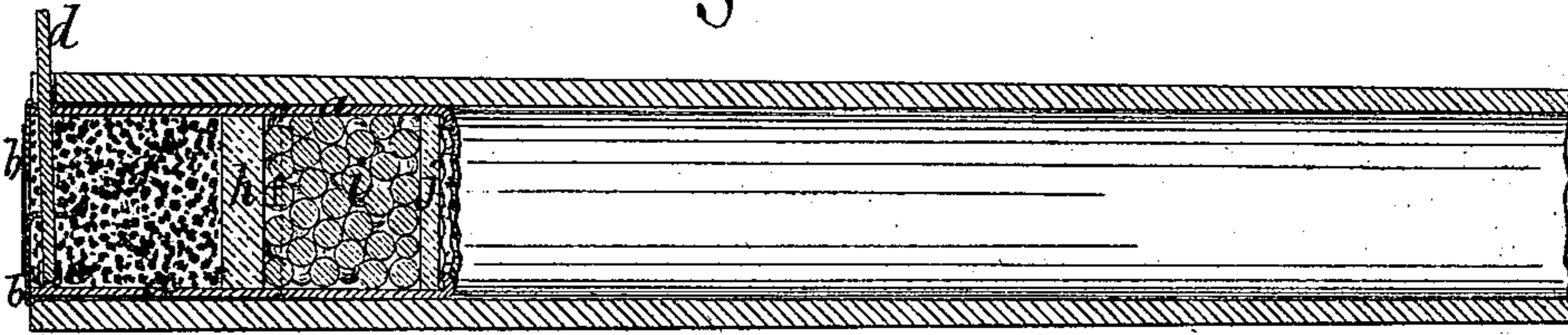


Fig. 3.



Witnesses:
Chas. C. Wilson
Edmund Masson

Charles Edward Snider.
By attorney A. B. Stoughton.

UNITED STATES PATENT OFFICE.

CHARLES EDWARD SNEIDER, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOSIAS PENNINGTON, JR., OF SAME PLACE.

IMPROVEMENT IN SHOT-CARTRIDGES.

Specification forming part of Letters Patent No. 102,984, dated May 10, 1870.

To all whom it may concern:

Be it known that I, CHARLES EDWARD SNEIDER, of the city of Baltimore and State of Maryland, have invented certain new and useful Improvements in Shot-Cartridges, so that they may be fired from a non-chambered bore or barrel; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a perspective view of the shot-cartridge. Fig. 2 represents a section through the same. Fig. 3 represents a section through a portion of a gun-barrel, with the cartridge in section therein.

Shot-cartridges, as heretofore made, have been loaded in and fired from a chamber in the rear of the barrel, and the making of such chamber, which involves the making of a shoulder, so weakens the barrel at the point where it endures the greatest strain as to cause it to rupture, crack, and burst.

My invention consists in a shot-cartridge the shell or case of which is made of one piece, or without a shoulder, and partially cut through at the line where the portion containing the shot parts from or leaves the portion containing the charge of powder, by which means I can use and fire said cartridges from a non-chambered gun, and so preserve the strength of the barrel where it is most required; and my invention further consists in cutting a flap in the rear disk or head of the cartridge-case, and bending it inward to form a support for the firing-pin, which avoids the necessity of an extra chamber or a pasteboard disk or bottom for securing the cap and pin, as heretofore.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The cylinder or case *a*, I make of pasteboard, by preference, though it may be made of other material, in whole or in part, and this cylinder is united to a metallic flanged head, *b*, to form the case.

A flap, *c*, is cut or punched in the metal head, and then bent inward and punched (be-

fore or after being bent) with a hole for the firing-pin *d* to pass through and be supported in, said firing-pin resting in a cap, *e*, in the cartridge-case. The opening in the head of the cartridge made by cutting the flap and bending it inward is afterward closed by a paper or other diaphragm, suitably varnished to keep out moisture.

Making a support for the firing-pin out of a portion of the head of the cartridge avoids the use of a pasteboard bottom or a separate chamber for the firing-pin, as heretofore made.

The cartridge-case so made is punched, creased, or partially cut at or about the line *f*, so that, when discharged or fired, the forward portion will leave the after portion and go with the shot, the case parting at this partially severed or weakened line *f*.

When the cap and firing-pin are arranged, then the charge of powder *g* is first put in; then a wad, *h*; on that the charge of shot *i*; then a disk or wad, *j*, on which latter the end of the case is bent over or crimped on, to hold the charge to the cartridge.

The bore of the gun need not be chambered for this cartridge, but is so made as to allow the cartridge to freely slide into the bore, or slightly, very slightly, tapered for that purpose.

The front of the cartridge-case going out with the shot tends to concentrate the latter, or make "close" shooting, as it is termed.

Having thus fully described my invention, what I claim is—

1. Making the case or cylinder of a shot-cartridge of a single piece, partially severed, or so weakened in front of the powder-wad as to separate, when fired, at that point, and go out with the shot, and so obviate a chambered bore to the gun, substantially as described and represented.

2. In combination with a shot-cartridge, the flap *c*, cut and made from the head of the cartridge-case, as a support for the firing-pin, substantially as and for the purpose described.

CHARLES EDWARD SNEIDER.

Witnesses:

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EDMUND MASSON.