

M. COLONEY.
Cartridge.

No. 225,463.

Patented Mar. 16, 1880.

Fig. 1,

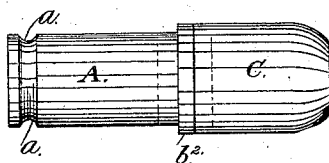


Fig. 2,

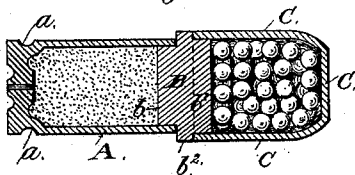


Fig. 3,

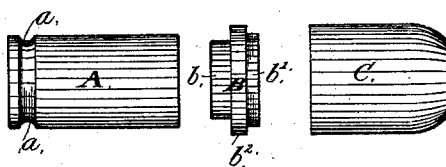
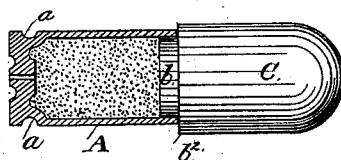


Fig. 4,



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UNITED STATES PATENT OFFICE.

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CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 225,463, dated March 16, 1880.

Application filed February 10, 1879.

To all whom it may concern:

Be it known that I, MYRON COLONEY, of the city and county of New Haven, in the State of Connecticut, have invented certain new and useful Improvements in Cartridges, of which the following is a specification.

The object of my invention is a cartridge especially adapted for grape-shot in ordnance or cannon service and for small shot for sporting purposes.

It consists in constructing the cartridge in three parts—to wit, two shells and an intermediate flanged plug, which fits into and closes the rear end of the front shell, in which the shot is contained, and the front of the rear shell, which contains the powder and secures the two together. The front shell is of larger diameter than the rear, and the central uniting-plug has an external flange flush with the external diameter of the larger front shell or case, and forming a shoulder for seating the cartridge in loading from the front of a breech-slide, which is pierced completely through, the smaller diameter of the powder-case or rear shell permitting it to be expelled rearward after the discharge.

My invention further consists in constructing a cartridge for breech-loading fire-arms with a circumferential groove at its base, to adapt it to be applied laterally between jaws which hold it against the stroke of a hammer or firing-pin, as hereinafter described, and making the front or projectile part of the cartridge of larger diameter than the rear, to admit of loading from the front of the breech-slide and expelling the empty shell backward.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a cartridge ready for use. Fig. 2 is a longitudinal section of the same. Fig. 3 is a side elevation of the parts detached. Fig. 4 is a longitudinal section, illustrating a modification.

A represents the rear portion of the cartridge, consisting of a shell for the reception of the powder, circumferentially grooved on its rear end, as shown at *a*.

C is a case to contain small shot, or grape-

shot, or other projectiles, according to the size of the arm and the purpose for which it is to be used.

B is an intermediate uniting-plug formed at *b* to fit within the front of the powder-shell A, and at *b'* to fit within the rear of the shot or projectile shell C, and at *b²* with a circumferential flange which fits against the opposed ends of the respective shells and extends in diameter to the exterior of the front shell, C, so as to be precisely flush therewith.

The flange *b²* will thus be seen to constitute a shoulder for seating the cartridge in loading from the front within a chamber properly formed to receive it.

The circumferential groove *a* at the base of the cartridge adapts it to be passed laterally within and between a pair of rigid jaws in rear of the barrel when the cartridge is brought to firing position, which jaws then hold the cartridge firmly against the longitudinal stroke of a firing-pin or hammer, and after the projectile is fired away, the cylindrical shell A, being without a shoulder, may be readily ejected backward from a chamber, passing completely through the breech-slide.

A construction of breech-loading fire-arms adapted for the use of cartridges constructed and used as above explained I have fully described in another application for Letters Patent, and it will be observed that a part of my present invention is applicable to cartridges made with solid balls either for ordnance or small-arms, the essential features of this part of the invention being a shoulder, *b²*, for seating the combined cartridge and ball in loading from the front, a cylindrical shell, A, which may be ejected backward after the explosion, and a circumferential groove, *a*, at the base or rear end of said cylindrical shell, adapting the cartridge to be securely held between rigid jaws against the longitudinal stroke of a firing-pin or hammer.

It will be seen that this part of my invention may be embodied in the modification illustrated in Fig. 4, where the parts B C *b b²* constitute a solid projectile of one piece of metal.

My invention is adapted for shot-guns and for grape and canister shot.

It will thus be seen to be applicable to ord-

nance artillery, machine-guns, shoulder-guns, and pistols.

In carrying out my invention in the first-described mode, as illustrated in Figs. 2 and 3, it is preferred to make the uniting-plug B of wood. The case or shell C may be of paste-board, sheet metal, cloth, felt, wood, or other material. The powder case or shell A may also be of either of these materials. The cases A and C being respectively filled with powder and with shot or grape-shot, as the case may be, the plug B is securely glued therein up to its flange b^2 .

Having thus described my invention, the

following is what I claim as new therein and desire to secure by Letters Patent:

1. A cartridge constructed with a cylindrical shell, A, having a circumferential groove, a , close to the rear end, and a front portion of larger diameter forming a shoulder, b^2 , as and for the purposes specified.

2. The combination of the rear and front shells or cases, A and C, and the flanged uniting-plug B, as and for the purposes set forth.

MYRON COLONEY.

Witnesses:

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