

(No Model.)

B. F. WILLIAMS.
SHOT CARRYING SHELL.

No. 579,853.

Patented Mar. 30, 1897.

Fig. 1

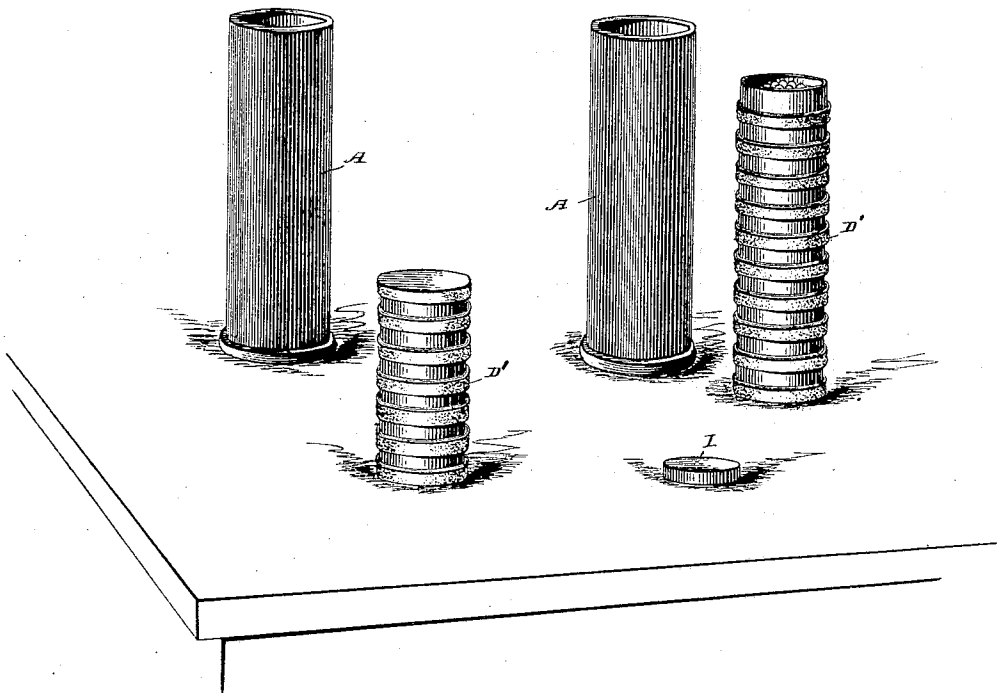


Fig. 2.

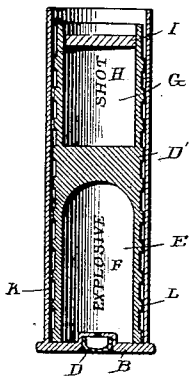


Fig. 3.

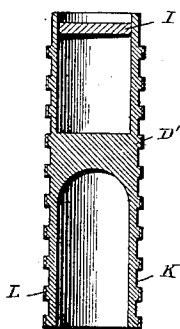


Fig. 4.

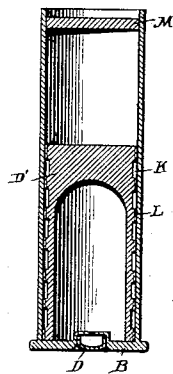
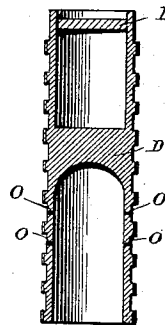


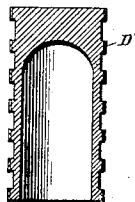
Fig. 6.



WITNESSES:

F. W. Riley,
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Fig. 5.



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SHOT-CARRYING SHELL.

SPECIFICATION forming part of Letters Patent No. 579,853, dated March 30, 1897.

Application filed June 27, 1896. Serial No. 597,164. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. WILLIAMS, residing at Quanah, in the county of Hardeman and State of Texas, have invented a new and Improved Cartridge-Shell, of which the following is a specification.

This invention is an improved cartridge-shell and is capable of use in large and small guns.

10 The object of the invention is to provide a cartridge-shell which shall clean the barrel of the gun each time one is discharged, thereby preventing the gun becoming foul or clogged up.

15 Another object is to provide a cartridge-shell which can be employed for shooting shot at long or short range.

Another object is to construct a cartridge-shell in such a manner that for large guns 20 the friction shall be reduced to a minimum.

With these various objects in view my invention consists, essentially, in a main or outer shell and an inner shell or shot-carrier, said inner shell having a chamber to receive 25 an explosive by means of which the projectile is thrown from the main shell and gun.

My invention consists in making this inner shell or shot-carrier with a chamber to receive smaller projectiles; and my invention consists in making this inner tube or shot-carrier 30 with a series of felt-covered bands, whereby the barrel is cleaned as the shot-carrier is forced therefrom; and again my invention consists in making the shot-carrier with an explosive and shot-carrier chamber surrounding the projectile with felt-covered bands, and in making a gas-escape hole in the explosive-chamber to act as a cushion and reduce the friction in large guns.

40 My invention consists also in certain details of construction and novelties of combination, which will be fully described hereinafter and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a view showing two completed shells or cartridges and all their component parts. Fig. 2 is a vertical longitudinal section of a complete shell containing a shot-carrier constructed with powder and shot chambers. Fig. 3 is a vertical longitudinal 50 section of such shot-carrier. Fig. 4 is a vertical longitudinal section of a shell containing

a shot-carrier provided with a powder-chamber closed. Fig. 5 is a detail view of such shot-carrier, and Fig. 6 is a longitudinal section of a slightly-modified form of a shot-carrier. 55

In carrying out my invention I employ a main shell A, which is preferably made of paper, having the metallic back or bottom B and the usual form of cap or primer D. Within the main shell A is arranged a shot-carrier D', which is formed with a chamber E at the lower end to contain the explosive F of the cartridge, and at the upper end is 65 produced a chamber G, in which is placed shot H or small projectiles, being held in place by a wad I. A shell-cartridge constructed in this manner is placed in a breech-loading gun and fired. 70

The shot-carrier is thrown from the gun and carries the shot therewith for a long distance until the resistance of the air tears away the wad and permits the shot to discharge. In practice, however, I propose to construct the shot-carrier with a series of grooves K and a series of bands L and cover the surfaces 75 of said bands with felt or similar material, so that as the shot-carrier is forced from the gun it will clean the interior of the barrel, the grooves K reducing the friction and carrying whatever dust may be swept from the sides of the barrel. One of the bands near the top is made somewhat heavier or thicker, 80 so as to hold the projectile in the shell while being carried around. 85

By referring to Fig. 5 it will be seen that the shot-carrier can be made without the shot-chamber, if so desired, but in this case the shot is placed upon the top of the projectile 90 and held in place by a wad M.

When using my shell-cartridge in cannon and big guns, I make a series of openings O in the explosive chamber, through which 95 some of the gas escapes, thereby reducing the friction between the bands and barrel and preventing the bands being torn to pieces.

It will thus be seen that I provide a shell-cartridge in which the shot-carrier cleans the barrel as it leaves the gun, and it will also 100 be seen that I provide a cartridge-shell which can be used to carry and discharge shot at a long distance or discharge shot at a short distance, and it will also be noticed that I

provide for using said cartridges or shell in either large or small guns.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A cartridge-shell comprising a main shell A, a shot-carrier D', arranged within the said shell and formed with a chamber E, the lower end to receive the explosive of the cartridge and provided also with a chamber G, at the upper end adapted to receive shot, and a wad for retaining said shot within the chamber, said shot-carrier having a series of bands,

said bands being covered with felt or similar material, substantially as and for the purpose described.

2. A cartridge-shell comprising a main shell and a shot-carrier, having a powder-chamber and the bands, said powder-chamber having a series of gas-escape openings, substantially as shown and described.

BENJ. F. WILLIAMS.

Witnesses:

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