

N. C. HUNTING.  
Cartridge-Shell.

No. 161,514.

Patented March 30, 1875.

Fig. 1.

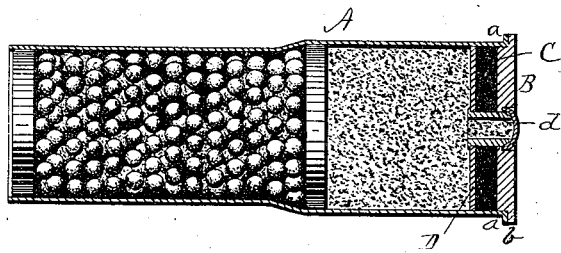
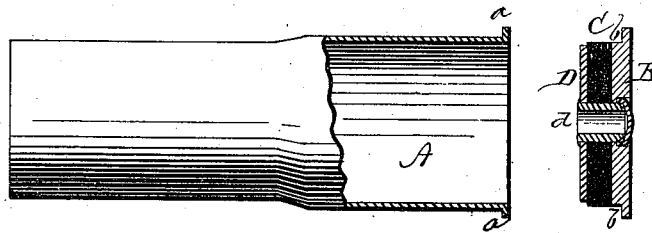


Fig. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN CARTRIDGE-SHELLS.

Specification forming part of Letters Patent No. 161,514, dated March 30, 1875; application filed October 1, 1874.

*To all whom it may concern:*

Be it known that I, NEWTON C. HUNTING, of Lincoln, in the county of Logan and in the State of Illinois, have invented certain new and useful Improvements in Breech-Loading Shell; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

My invention relates to the class of cartridges used in breech-loading fire arms; and the nature of my invention consists in the construction of the cartridge-shell with a movable head, and contracted in that portion which is to contain the ball or shot, so as to insert the wad and charge from the rear end of the shell, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section of my cartridge. Fig. 2 is a side view, part in section, of the same.

A represents a cartridge-shell, made of thin sheet metal or other material suitable for the purpose. This shell is made open at both ends, and the rear portion of the shell is of enlarged diameter for a suitable distance forward. The rear end of the shell is bent or spun outward, or otherwise made to form a circumferential flange, *a*, as shown. B represents the head, formed with a shoulder, *b*, and inserted in the rear end of the shell A. On the inner side of

the head B is placed a rubber disk, C, held by a plate, D, and the tube or nipple *d*, passing through all, with a recess formed in the outer surface of the head, in the usual manner, to receive the cap.

In loading this shell, the wad is first inserted from the breech, and wedged tightly at the point where the shell commences to contract. The charge of powder is then put in behind the wad, after which the head is pressed into place. The shot are then placed in front of the wad, and another wad placed in front of them. The rubber disk C prevents the powder from blowing out at the breech. By this construction of the shell I am enabled to shoot a forced wad, thereby getting additional power.

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

1. The combination, with a cartridge-shell open at both ends, of the flanged head B, rubber disk C, and plate D, united by the priming-tube *d*, substantially as set forth.

2. The combination of the shell A, enlarged at its rear, and having flange *a*, with the removable head composed of the flanged plate B, rubber disk C, plate D, and the priming-tube *d*, all constructed substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 16th day of September, 1874.

NEWTON C. HUNTING.

Witnesses:

FINIS E. BELL,  
R. BROOKS FORREST.