

A. HALL.
CARTRIDGE.

No. 173,538.

Patented Feb. 15, 1876.

Fig: 2.

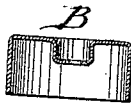


Fig: 1.

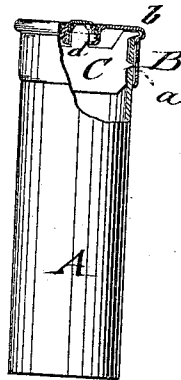


Fig: 4.

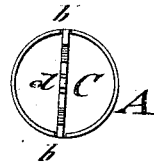


Fig: 3.

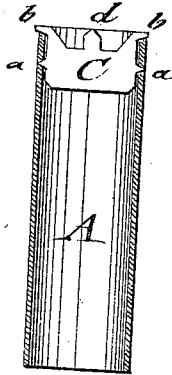


Fig: 5.

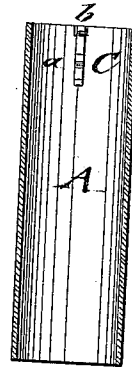
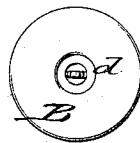


Fig: 6.



WITNESSES:

Chas. Nida
John Goethals

INVENTOR:

A. Hall
BY *Wm. H. [Signature]*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

ALBERT HALL, OF NEW YORK, N. Y.

IMPROVEMENT IN CARTRIDGES.

Specification forming part of Letters Patent No. **173,538**, dated February 15, 1876; application filed January 22, 1876.

To all whom it may concern:

Be it known that I, ALBERT HALL, of the city, county, and State of New York, have invented a new and Improved Cartridge, of which the following is a specification:

Figure 1 represents a sectional side view of my improved cartridge. Figs. 2 and 3 are central sections, respectively, of the cap and shell, with anvil in side view. Figs. 4 and 5 are, respectively, a top view and central section of the shell with cap detached; and Fig. 6 is a top view of the cartridge with percussion-cap detached.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved method of securing the anvil to the shell of shot-gun cartridges; and consists in securing the anvil by projecting points or studs in recesses of the shell, and holding the same by a sheet-metal cap-piece at the base of the shell.

In the drawing, A represents the paper shell of a cartridge for shot-guns, and B the cap-piece that is spun or pressed around the base part of the shell to re-enforce the same. The anvil C extends diametrically around the

shell, and is firmly secured thereto by projecting side spurs or points *a*, that pierce the shell, and by top points or studs *b*, that are fitted into recesses of the shell. The central projecting part *d* of the anvil extends through the perforated socket-head of the cap-holding cavity, to be there brought into contact with the percussion-cap seated in the socket. The base-encircling cap-piece B binds the anvil rigidly to the shell, and imparts thereby the degree of solidity and resistance required for the discharging of the cartridge.

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

The combination, with paper shell A and cap B, of a diametrical anvil, C, secured by side spurs *a*, that pierce the shell, by top studs *b*, that fit recesses of shell, and by central projection *d*, that passes through perforated head of cap, as and for the purpose specified.

ALBERT HALL.

Witnesses.

PAUL GOEPEL,
T. B. MOSHER.