

A. HALL.
CARTRIDGES.

No. 178,055.

Patented May 30, 1876.

Fig: 1.

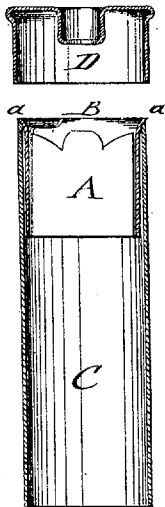


Fig: 2.

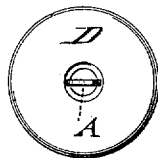
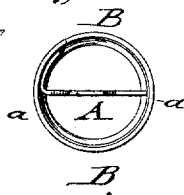


Fig: 3.



WITNESSES:

Chas. Nida
John Goethals

INVENTOR:

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UNITED STATES PATENT OFFICE.

ALBERT HALL, OF NEW YORK, N. Y.

IMPROVEMENT IN CARTRIDGES.

Specification forming part of Letters Patent No. **178,055**, dated May 30, 1876; application filed May 9, 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 vertical central section of my improved cartridge-shell. Fig. 2 is a top view of the same; and Fig. 3, a top view of the diametrical anvil and socket-tube.

Similar letters of reference indicate corresponding parts.

My invention relates to improvements in the construction of paper cartridge-shells, by which the same are considerably stiffened, and the anvil rigidly and strongly secured in position in the shell.

The invention consists of a diametrical anvil, made in one piece with an encircling socket-tube, retained securely by the paper shell and the metallic cap-piece.

In the drawing, A represents a diametrical anvil, that is bent in one piece with an encircling tube, B, which fits tightly into the paper shell C. The encircling or extension tube B of the anvil acts as a socket to the same, and serves to strengthen the paper shell, while securing the rigid position of the anvil. The anvil socket-tube B is made with a slightly-bent circumferential lip or flange, *a*, which bears on the edge of the paper shell, and pre-

vents, by a cap, D, the displacement of the anvil in longitudinal direction. A cap, D, of the usual shape, is spun tightly over the flange of the anvil-tube B, and over the paper shell C, and secured further to the shell by small beads or indentations in the cap. The centrally-recessed and inwardly-bent part of the cap, that receives the small percussion-cap, fits over the center part of the anvil, and forms an additional support to the same, by which the more complete stiffening and interlocking of the parts, and, thereby, a shell of increased strength and resistance, is produced.

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

1. As an improvement in cartridge-shells, the diametrical anvil of the shell, being encircled by a socket-tube, bent in one piece with the anvil, substantially as specified.

2. The combination of a paper shell and cap with a diametrical anvil and encircling socket-tube of one piece, secured by a circumferential end lip or flange, substantially as specified.

ALBERT HALL.

Witnesses:

PAUL GOEPEL,
JAMES H. HUNTER.