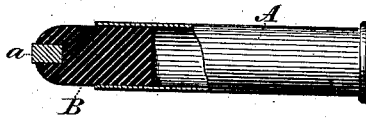


(No Model.)

E. WHITNEY.
Cartridge.

No. 243,334.

Patented June 21, 1881.



Witnesses.

J. H. Sumner
L. S. Rogers

Eli Whitney

Inventor

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UNITED STATES PATENT OFFICE.

ELI WHITNEY, OF NEW HAVEN, CONNECTICUT.

CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 243,334, dated June 21, 1881.

Application filed April 11, 1881. (No model.)

To all whom it may concern:

Be it known that I, ELI WHITNEY, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Cartridges; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in sectional side view, a cartridge embodying my invention.

This invention relates to an improvement in cartridges, designed with special reference to cartridges used in magazine-arms.

Center-fire cartridges are now almost universally used in magazine-arms. As they lie in the magazine heads to points, accidental explosions not infrequently occur, because of the primer of the forward cartridge being brought into sudden forcible contact with the ball of the cartridge next in rear.

Various mechanical devices have been applied to the magazine to prevent the possible contact of one cartridge with the next in rear of it, but as yet with no great success.

The object of this invention is to construct a cartridge so that no explosion can occur from the contact of the primer of one cartridge with the point of the one next in rear; and it consists in constructing the bullet with a cushion at its point of such flexible or elastic material that no forcible or exploding blow can be produced by it on the primer of the next cartridge.

A represents the metal shell, and B the bul-

let, combined into a cartridge in the usual manner. The bullet is made with a cavity in the center of its forward end, and into this cavity a cushion, *a*, is introduced, made from india-rubber, soft leather, or other flexible or elastic material, so as to project slightly from the end of the ball, as shown. This cushion is the only part of one cartridge which can possibly come in contact with the primer of the next cartridge while in the magazine. Because of its flexible or elastic character, nothing approximating an explosive blow can be imparted to the primer by it; hence all possible danger of explosion of the cartridge in the magazine is avoided. The cushion only needs to enter the bullet a sufficient distance to retain it in position, and not so as to in any practicable degree lighten the forward end of the bullet; hence the cushion in no way interferes with the progress of the bullet through the air, it maintaining its axial position as well with the cushion as without.

I do not wish to be understood to broadly claim providing a cartridge with a cushion to protect its primer, as such, I am aware, is not new.

I claim—

A cartridge having the forward end of the bullet provided with an elastic or flexible cushion at the center, and so as to project therefrom, substantially as described.

ELI WHITNEY.

Witnesses:

JOHN E. EARLE,
L. D. ROGERS.