

(No Model.)

A. J. HOBBS.  
SHOT CARTRIDGE.

No. 355,530.

Patented Jan. 4, 1887.

Fig. 1.

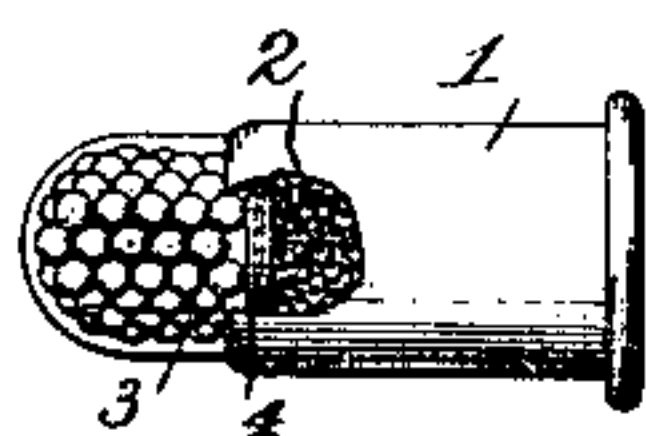


Fig. 2.

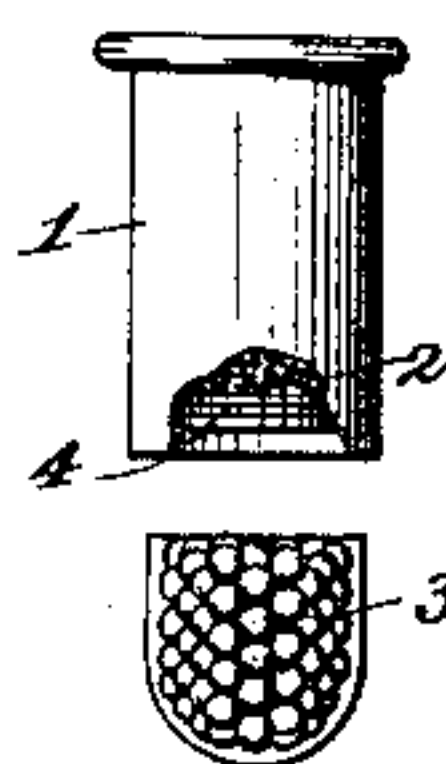


Fig. 3.

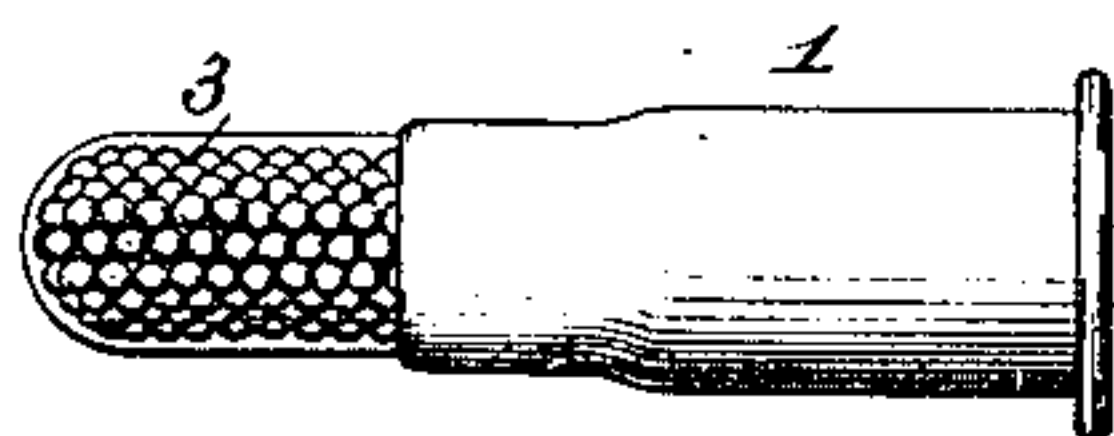
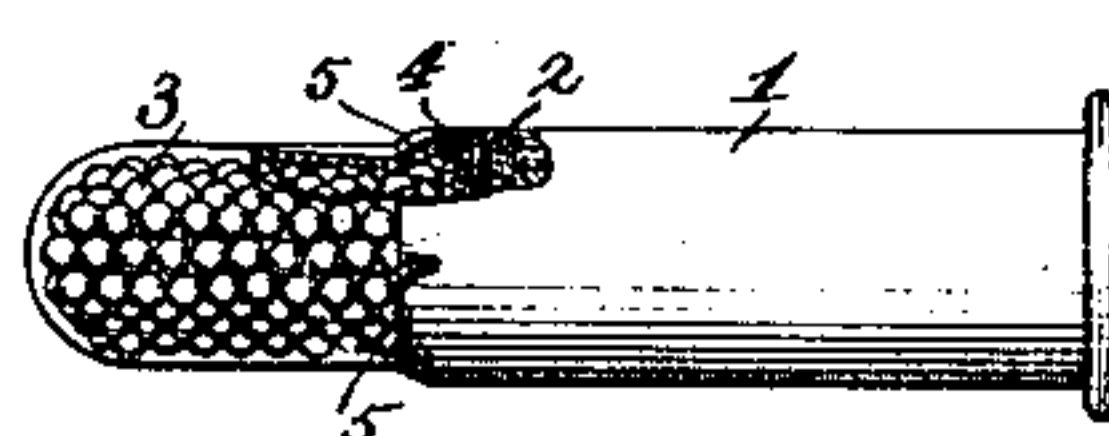


Fig. 4.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## SHOT-CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 355,530, dated January 4, 1887.

Application filed August 24, 1886. Serial No. 211,712. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED J. HOBBS, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Shot-Cartridges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable other skilled in the art to which it appertains to make and use the same.

My invention has for its object to produce a cheap and durable cartridge of this class, having a shot-case made of material that will not foul the gun-barrel and will be so completely fractured by the force of the explosion on leaving the gun-barrel that the charge of shot shall not be deflected by torn remnants of the shot-case, and which, moreover, shall be transparent, so that the size of the shot contained in the case can be seen at any time before using.

With these ends in view I have devised the novel shot-case of which the following description, in connection with the accompanying drawings, is a specification.

Figure 1 is an elevation of a cartridge complete, a portion of the shell being broken away, showing the powder; Fig. 2, an elevation showing the shot-case detached from the shell; Fig. 3, an elevation of another style of cartridge; and Fig. 4, an elevation, partly broken away, showing a cartridge in which the end of the shell is slightly indented in several places to assist in rupturing the shot-case.

1 denotes a cartridge-shell or powder-receptacle of ordinary construction; 2, the powder contained in the shell; and 3, the transparent shot-case, showing the shot.

It has been a serious objection to all kinds of material heretofore used for shot-cases that it quickly fouled the gun-barrel and frequently deflected the course of the charge, thereby interfering with its accuracy. It has, furthermore, been a serious objection to all classes of shot-cartridges heretofore produced that it was impossible to tell what the shot-case contained without destroying it. These objections I wholly overcome by the use of a shot-case made of gelatine. In loading the cartridge the shot are placed in the transparent

case; which is preferably made integral in any ordinary manner, and the base of the case may or may not be closed, as desired, by a wad, 4. The base of the case is then inserted in the shell, a powder-charge having previously been put in and secured by a wad, 4, and the edge of the shell is then closed partially or wholly about the case to hold the latter firmly in position.

In Fig. 4 I have illustrated a cartridge in which the outer end of the shell is indented, as at 5, after the shot-case is placed in position. These indentations render it absolutely certain that the shot-case will be fractured in firing.

After completing the cartridges, they may or may not be lubricated in the usual manner. I preferably lubricate them the same as ordinary cartridges.

I have found in practice that cartridges having gelatine shot-cases meet every requirement so far as keeping properties are concerned, and in firing are far preferable to either paper or metallic shot-cases. The transparency, moreover, of the gelatine cases is an incalculable advantage, as it enables the user to see just what the shot-case contains.

Having thus described my invention, I claim—

1. The combination, with a cartridge-shell or powder-receptacle, of a gelatine case in which the shot are contained.

2. A gelatine shot-case closed at the bottom by a wad, in combination with a cartridge-shell or powder-receptacle in which the shot-case is secured by closing the metal of the powder-receptacle about it partially or wholly.

3. The combination of a transparent shot-case with a cartridge-shell or powder-receptacle having indentations at its mouth to insure the fracture of the shot-case when the cartridge is fired.

In testimony whereof I affix my signature in presence of two witnesses.

ALFRED J. HOBBS.

Witnesses:

SAML. T. HOUGHTON,  
JOHN N. STANDISH, Jr.