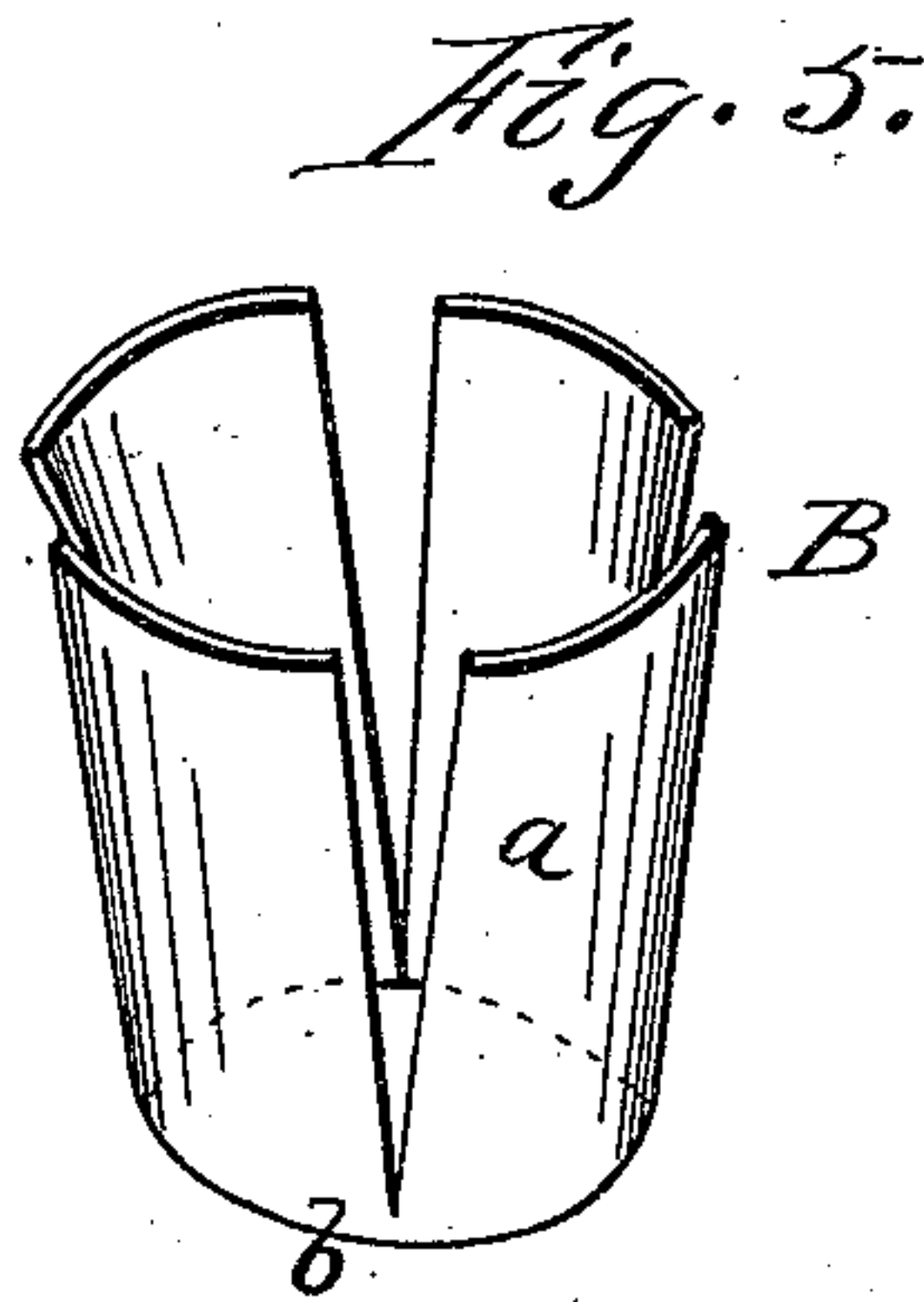
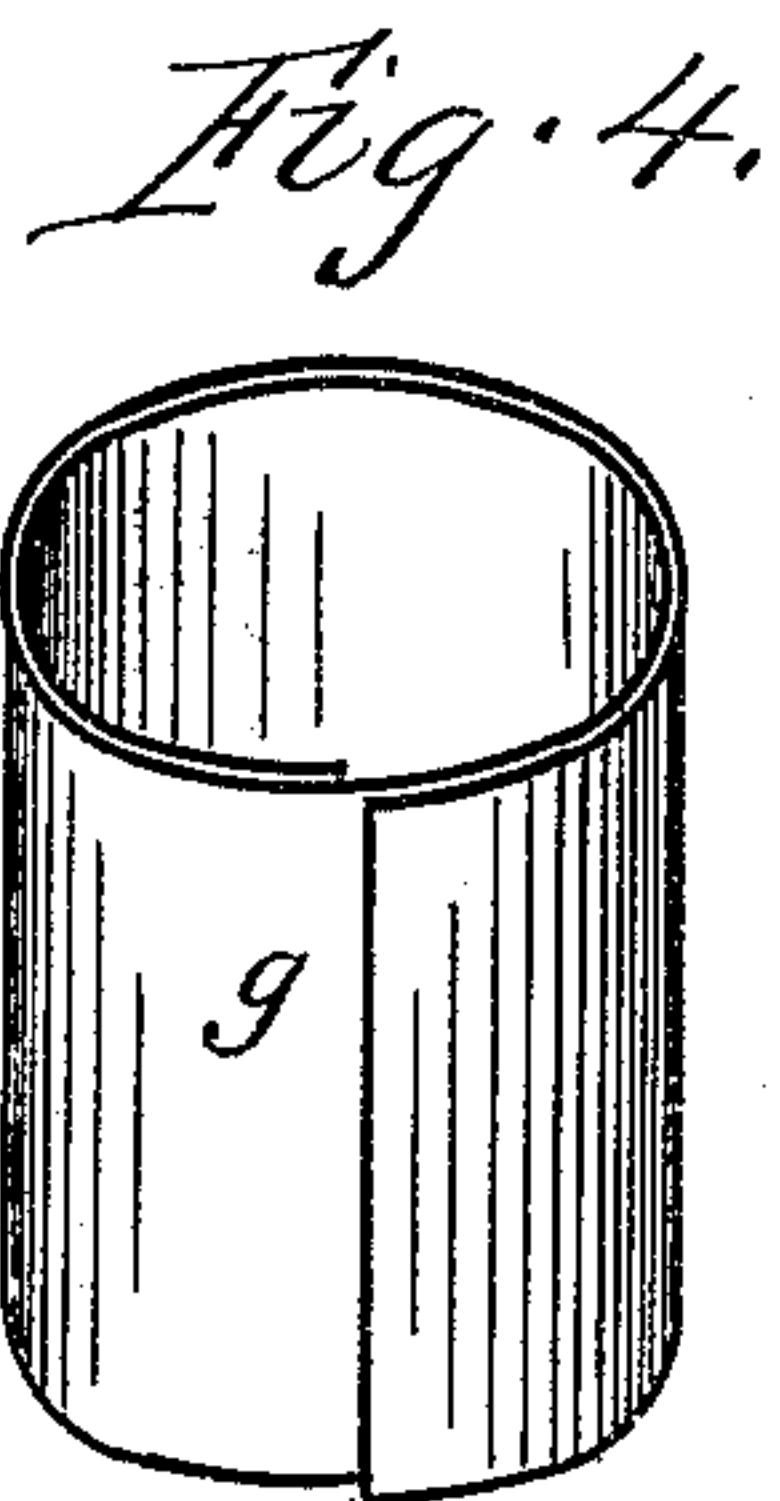
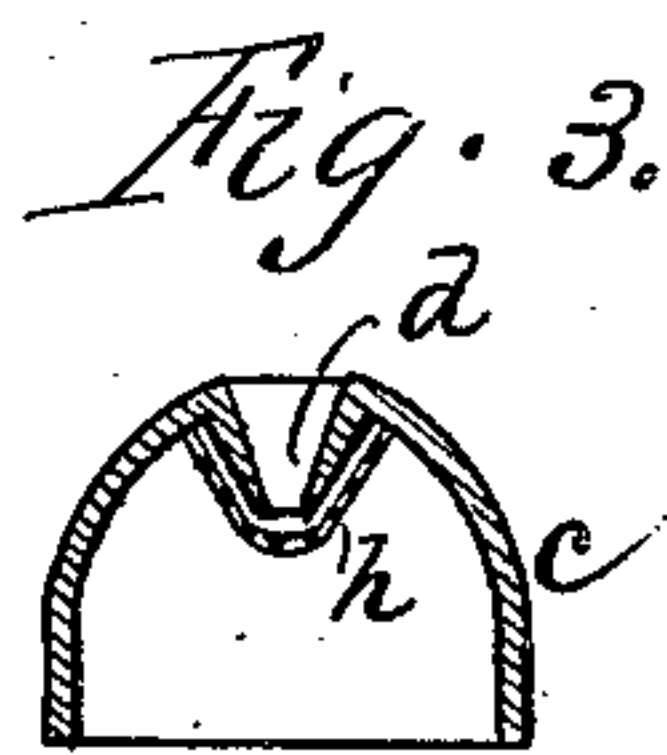
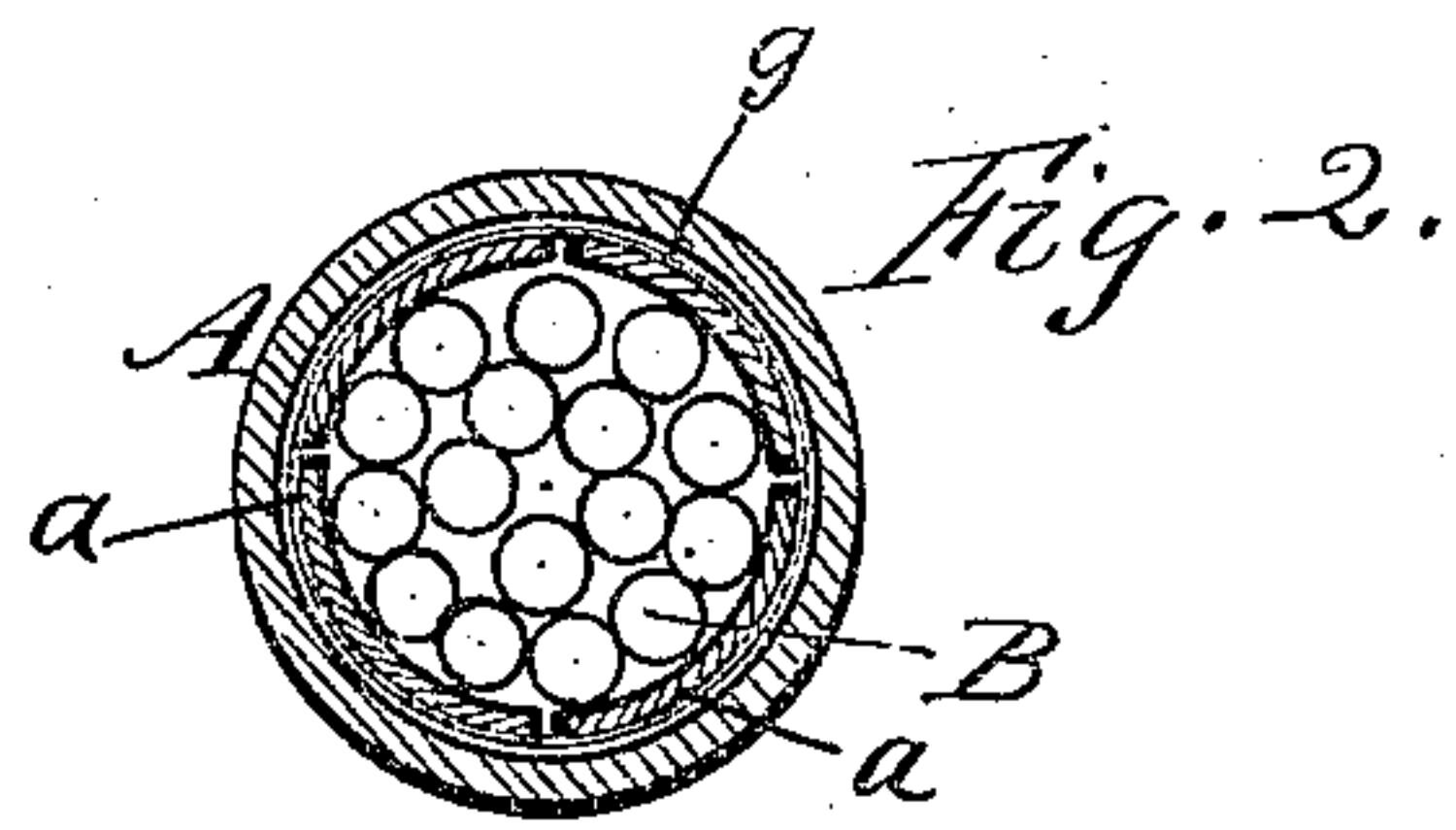
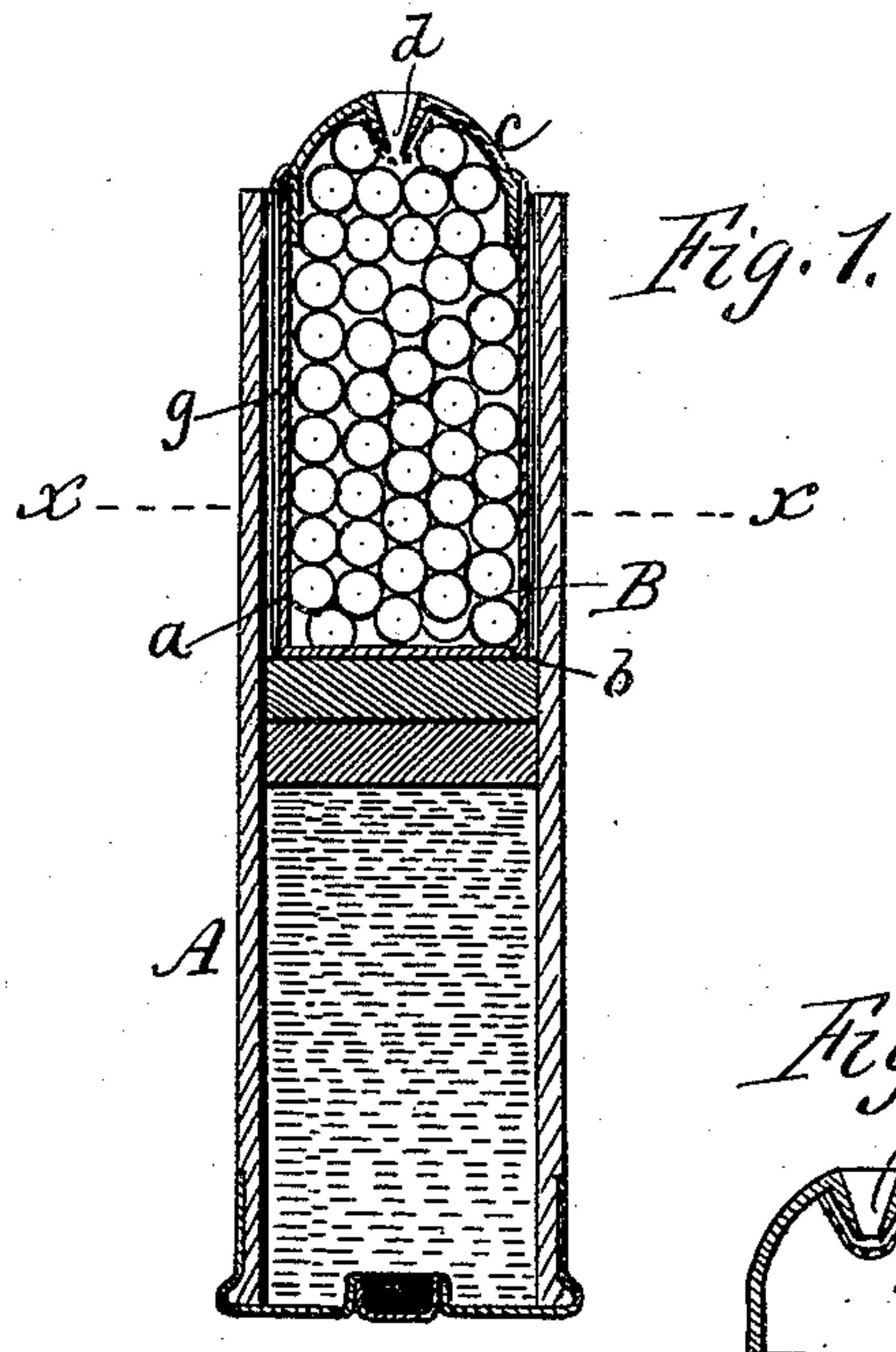


(No Model.)

E. P. FOLLETT.  
SHOT CARTRIDGE.

No. 553,062.

Patented Jan. 14, 1896.



Witnesses:

*J. C. Culver*  
*J. C. Culver*

Inventor.

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# UNITED STATES PATENT OFFICE.

EDWARD P. FOLLETT, OF DULUTH, MINNESOTA, ASSIGNOR OF ONE-HALF TO  
EDWARD G. HILLIARD, OF SAME PLACE.

## SHOT-CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 553,062, dated January 14, 1896.

Application filed February 2, 1895. Serial No. 537,148. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD P. FOLLETT, of Duluth, in the county of St. Louis and State of Minnesota, have invented a certain new and useful Improvement in Cartridges; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this application.

My improvement relates to shot-cartridges in which the shot is inclosed in a separate case which opens at a given range to scatter the shot.

The invention consists in the construction and arrangement of parts hereinafter described and claimed.

In the drawings, Figure 1 is a longitudinal section of the loaded cartridge. Fig. 2 is a cross-section of the same in line  $xx$  of Fig. 1. Fig. 3 is a sectional view of the head of the case that holds the shot. Fig. 4 is a perspective view of the exterior paper covering of the case, and Fig. 5 is a similar view of the body of the case.

The design of my invention is to enable the case which holds the shot to be thrown a given distance and then be opened to scatter the shot, also to regulate the range by the admission of air to the case, the latter bursting under given pressure produced by the projectile force.

A indicates the exterior shell loaded with powder and is of usual construction.

B is the case that holds the shot. It is of such size as to fit closely inside the outer shell, resting on top of the wads that hold the powder. It consists of a cylindrical body portion  $a$ , a base  $b$ , and a head  $c$ . The latter is preferably made of conical or convex form, and is provided with one or more apertures  $d$ , through which air is forced under pressure as the case is projected forward. As shown in the drawings, the aperture is made in a central nipple which sets into the head; but it may be made at any other point, or a greater number of apertures than one may be made.

The head may be made of any suitable material but lead is preferable, as it gives the

necessary weight at the front end to keep the case from turning. The body  $a$  may also be made of any suitable material which will open or burst under given pressure. As shown in the drawings, it is made of a thin metallic shell, the sides divided into quarter-sections, as shown in Fig. 5, this shell being wound with a paper wrapper  $g$ , (shown in Fig. 4,) which makes one or more turns and is pasted in place. The sides of the shell may be made entirely of paper of such thickness that it will burst at a given pressure. To prevent the shot from crowding up and closing the aperture a covering  $h$  of wire-gauze may be placed over the aperture, as shown in Fig. 3.

The cartridge is loaded with powder in the usual way, and the slotted case is then inserted on top of the wads, the head projecting, as shown. The rapid passage of the case when ejected forces air through the aperture to the interior of the case, and when sufficient pressure is reached the case bursts and the shot scatters. The range is regulated by making the aperture through which the air passes of greater or less size. For use at short range the aperture is made large and for long range it is made small. It is found by experiment that very accurate ranging is secured.

Having described my invention, I do not claim simply and broadly a shot-case with expansible sides which open when the case is discharged from the gun.

What I claim as new, and desire to secure by Letters Patent, is—

1. A shot case consisting of an expansible shell capable of maintaining its form under normal pressure when discharged from the gun, and a head provided with an aperture to admit air under propulsion, whereby at a given range the interior exceeds the exterior pressure and causes the case to burst, as specified.

2. A shot case consisting of an expansible shell capable of maintaining its form under normal pressure when discharged from the gun, and a head provided with a conical nipple extending inward and having an aperture opening into the case to admit air under pro-



pulsion, whereby at a given range the interior exceeds the exterior pressure and causes the case to burst, as specified.

3. A shot case, consisting of a shell provided with an aperture or apertures at the head to admit air under pressure as the shell is discharged, and having a covering of paper which will burst at a given pressure.

4. A shot case, consisting of a metallic shell with a closed bottom and separable sides, a wrapping of paper around the same, and a

head provided with one or more apertures through which air is forced as the shell is discharged.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

EDWARD P. FOLLETT.

Witnesses:

R. F. OSGOOD,

CHAS. A. WIDENER.