G. M. CONNER.

Patched Bullets.

No. 157,378. Patented Dec. 1, 1874.

Fig: 1

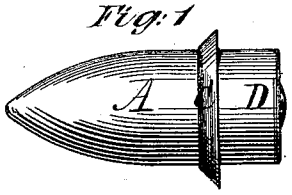


Fig: 2

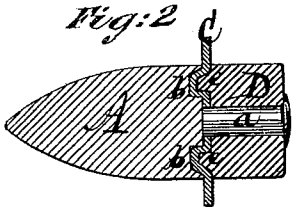


Fig: 3

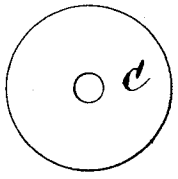


Fig: 4

Fig: 5

Fig: 6

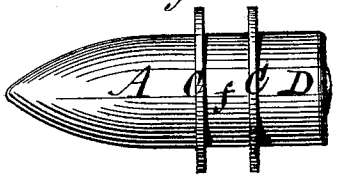
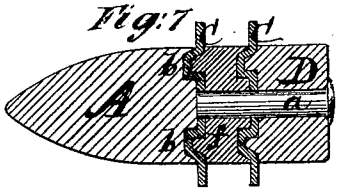


Fig: 7



Witnesses:
Michael Ryan
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G. M. Conner
by his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE

GEORGE M. CONNER, OF SWAMPSCOTT, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND CHARLES A. HILDRETH, OF SAME PLACE.

IMPROVEMENT IN PATCHED BULLETS.

Specification forming part of Letters Patent No. **157,378**, dated December 1, 1874; application filed May 29, 1874.

To all whom it may concern:

Be it known that I, GEORGE M. CONNER, of Swampscott, in the county of Essex and State of Massachusetts, have invented an Improved Patched Bullet, of which the following is a specification:

My invention relates to certain improvements in the construction of the bullet, and in the attachment thereto of a patch for engagement with the rifling of the barrel.

The invention consists in a ball formed with a shank projecting axially from its rear end, and the combination therewith of a patch and a heel-piece, in the manner and for the purpose hereinafter particularly described.

In the accompanying drawing, Figure 1 is a side view of my improved bullet. Fig. 2 is a longitudinal section of the same. Fig. 3 is a face view of the patch. Fig. 4 is a view of the rear end of the bullet. Fig. 5 is a longitudinal section of the heel-piece. Fig. 6 is a side view of a modification. Fig. 7 is a longitudinal section of the same.

The ball A is of the ordinary conical form. From the center of the rear end extends axially a shank, *a*, which may be in one piece with the ball, and between said shank and the periphery of the ball is a series of recesses or depressions, *b*. The patch C is made of any suitable material, with a central perforation to receive the shank. The heel-piece D is cylindrical in form, corresponding in size with the rear end of the ball, and formed with studs or projections *e*, corresponding in number and position with the recesses *b*.

The shank *a* is passed through the center of the patch C and heel-piece D, and riveted down on the rear side of the heel-piece, forming a patched bullet of the form shown in Fig. 1, the projections *e* forcing the material of the patch into the recesses *b*, as shown in Fig. 2, so as to effectually prevent either part from turning.

If desired, there may be two of the patches C, with a band, *f*, interposed between them, as shown in Figs. 6 and 7, for the purpose of preventing deviation of the axis of the ball from the line of trajectory.

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

The combination of the bullet, constructed with the cavities *b* and shank *a*, with the patch C and the heel-piece D, having the projections *e* for depressing the patch into the cavities, in the manner herein shown and described.

GEORGE M. CONNER.

Witnesses:

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