

(No Model.)

L. MARBLE.
PATCHED BULLET.

No. 463,840.

Patented Nov. 24, 1891.

Fig. 1.

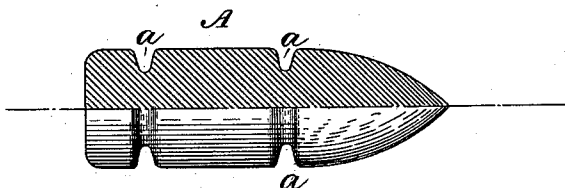


Fig. 2.

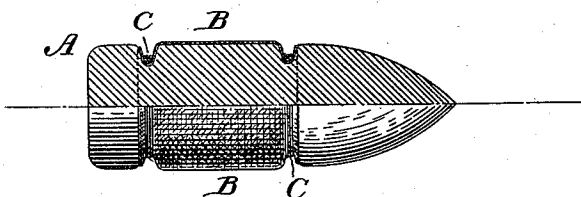
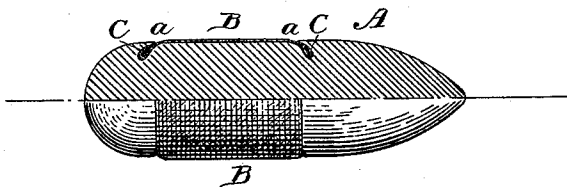


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

LANSING MARBLE, OF GLADSTONE, MICHIGAN.

PATCHED BULLET.

SPECIFICATION forming part of Letters Patent No. 463,840, dated November 24, 1891.

Application filed July 23, 1891. Serial No. 400,476. (No model.)

To all whom it may concern:

Be it known that I, LANSING MARBLE, a citizen of the United States, residing at Gladstone, in the county of Delta and State of Michigan, have invented certain new and useful Improvements in Patched Bullets; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to projectiles; and it consists in a bullet provided with a permanently-attached patch, as hereinafter set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 shows the bullet. Fig. 2 is a similar view showing the patch fastened thereto. Fig. 3 shows the completed projectile. Each figure is half in section and half in elevation.

The bullet A is composed of any suitable metal, as lead. It has preferably a cylindrical body and a conoidal head, but may be of any desirable form. Near each end of the cylindrical portion is a circumferential groove *a*. The bullet may be cast, rolled, turned, die-forged, or otherwise formed.

The patch B is made of linen, cotton, or other suitable textile material filled with tallow or other lubricant and wound about the cylindrical body of the bullet. The ends of the cloth overlap the grooves *a* at each end and are tied down into them with wire or

thread C. The projectile is then placed between swages, dies, or rolls, and the grooves are closed, the adjacent metal and the ends of the cloth being turned down over the wire or twine, thereby firmly securing the patch to the bullet, besides giving the projectile a smooth and even exterior.

The advantages of my patched bullet are that the metal does not come in contact with the bore of the gun, so that the grooves of the barrel do not become foul with bits of lead. The patch is not burned, and the lubricating material being only just sufficient to properly accomplish its purpose no particles of tallow or cloth are left in the gun.

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

1. A patched bullet consisting of a grooved body having the patch surrounding the same, the ends of the patch being fastened into the grooves, and the adjacent metal being turned down over the fastenings, substantially as described.

2. A patched bullet consisting of a grooved body and a patch surrounding the same, the ends of the patch being received in the grooves, and the adjacent metal being turned down over said ends, substantially as described.

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

LANSING MARBLE.

Witnesses:

W. P. DERRY,
CLAYTON VOORHIS.