

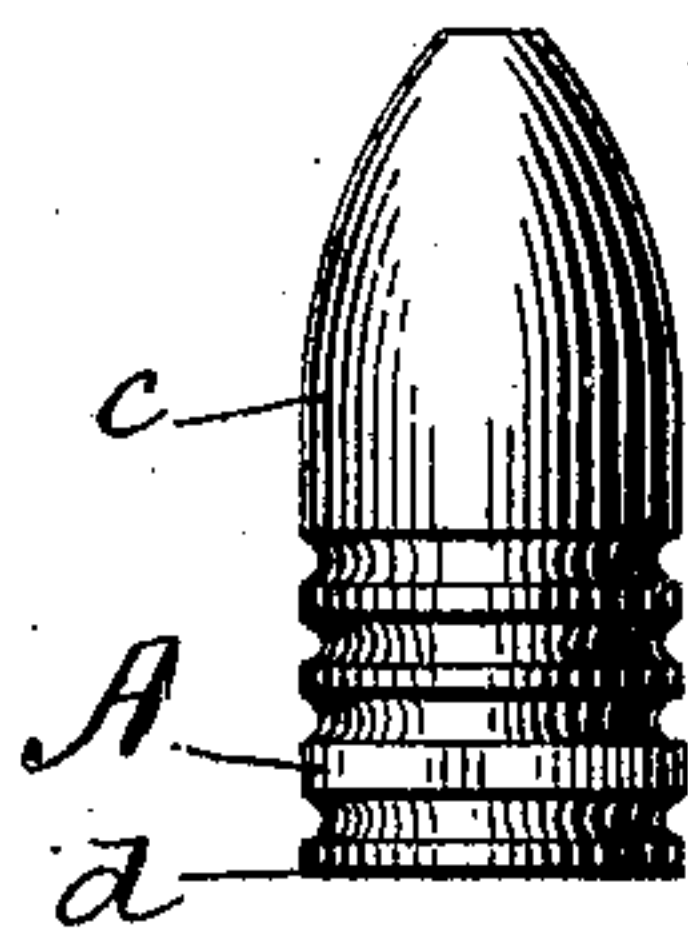
No. 711,209.

Patented Oct. 14, 1902.

E. J. HILL.
PROJECTILE.

(Application filed Mar. 29, 1901.)

(Model,)



Witnesses:
Wayne Simmons
Howard Price

Inventor:
Edward J. Hill

UNITED STATES PATENT OFFICE.

EDWARD J. HILL, OF KALKASKA, MICHIGAN.

PROJECTILE.

SPECIFICATION forming part of Letters Patent No. 711,209, dated October 14, 1902.

Application filed March 29, 1901. Serial No. 53,539. (Model.)

To all whom it may concern:

Be it known that I, EDWARD J. HILL, of Kalkaska, in the county of Kalkaska and State of Michigan, have invented certain new and useful Improvements in Projectiles, commonly called "Rifle-Bullets," for Use in Rifled Guns, of which the following is a specification.

My invention relates to projectiles called "rifle-bullets," used in rifles and rifled guns. My improvement consists in inserting transversely in the body of the projectile a disk of relatively harder metal than the body thereof. The body of the projectile is conical in shape and is made of lead. The disk may be made of copper, and I sometimes use more than one copper disk, the number of which is determined by the twist of the rifling in the gun. By this arrangement I secure, first, decreased friction on the rifling of the gun; second, a greater rotary movement of the projectile than when the projectile is made of lead alone; third, a greater expansion of the projectile when fired into a dense substance, consequently greater destructive power to life; fourth, the copper disk prevents fouling of

the gun by removing the particles of lead from the grooves of the gun and insures the rotary movement of the projectile.

In the accompanying drawing, illustrating an embodiment of my invention, the figure thereof is a perspective view.

In the drawing, A represents the copper disk. The anterior and posterior portions of said projectile are of lead and are marked, respectively, *c* and *d*.

What I claim, and wish to secure by Letters Patent of the United States, is—

The combination in a projectile, of relatively soft anterior and posterior portions forming the body thereof, with a metallic disk of relatively harder metal inserted therebetween and transversely thereof, for the purposes described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD J. HILL.

Witnesses:

WAYNE SIMMONS,
M. N. LEHNER.