(No Model.)

T. ADAMS.

TOY GUN.

No. 408,062. Patented July 30, 1889.

Fig. 1.

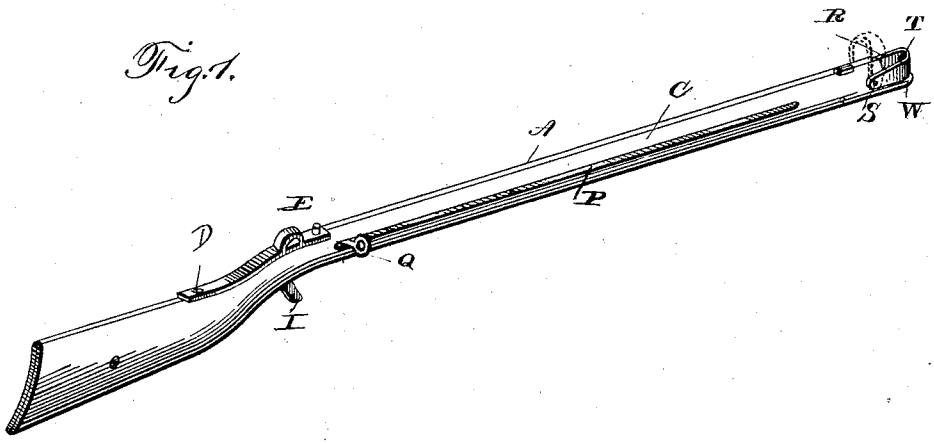


Fig. 2.

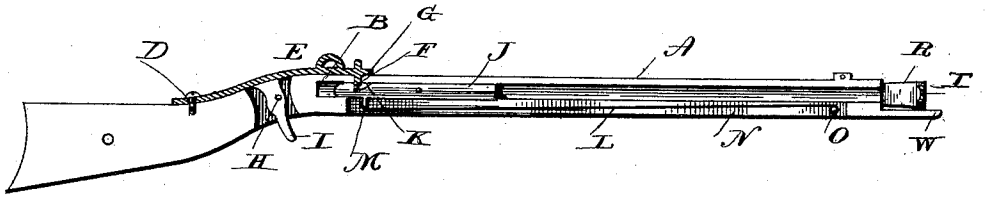
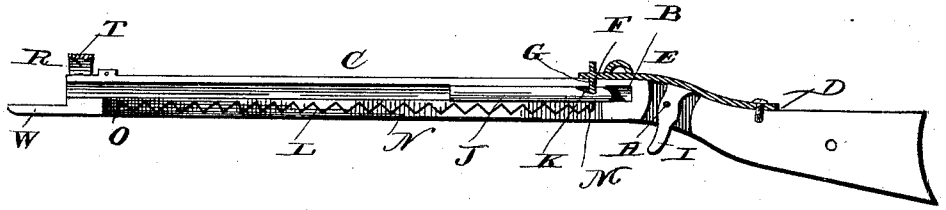


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

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TOY GUN.

SPECIFICATION forming part of Letters Patent No. 408,062, dated July 30, 1889.

Application filed March 6, 1889. Serial No. 302,082. (No model.)

To all whom it may concern:

Be it known that I, THOMAS ADAMS, a citizen of the United States, and a resident of Highland, in the county of Ulster and State of New York, have invented certain new and useful Improvements in Toy Guns; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my invention, the yoke on the end of the barrel being dropped in front of the barrel in the position as when the gun is used for exploding torpedoes or caps, the dotted lines showing the yoke thrown up on the barrel in position as when the gun is used for shooting darts or arrows. Fig. 2 is a sectional view of my gun, showing the action of the trigger and spring-hammer, the piston drawn to the breech of the barrel, and a rubber for operating the piston. Fig. 3 is a similar view showing a spring for operating the piston.

The object of my invention is to produce a toy gun of such construction as to permit of it being used for exploding torpedoes or caps and for shooting darts or arrows; and to these ends my invention consists in the improved construction and novel combination of parts of a toy gun, as will be hereinafter fully described in the specification, illustrated in the drawings, and more particularly pointed out in the claim.

In the drawings, A designates one side of the gun, which has its inner face grooved from the front end to the point B, thus forming a portion of the barrel of the gun.

C designates the opposite side of the gun, which is constructed in the same manner as the first-named side A, with the exception that the opposite side of the piece C is grooved, so that when the two pieces A and C are put together the bore of the gun will be formed by the two grooves.

On the stock of the gun at the point D is secured a spring-hammer E, at the front end of which is secured a downwardly-extending lug F, which extends through an aperture G in the barrel of the gun. Beneath the spring-hammer is mounted upon a pivot H a trigger I, the upper side of which is adapted to bear against the under side of the spring-hammer. Within the barrel of the gun is a piston J, at the rear end of which is a detent K, adapted to be engaged by the lug F. To the under side of the piston is attached a spring or rubber L, which is secured to the piston by means of a pin or pivot M. The other end of this spring or rubber is secured to the gun at the front end of a groove N by means of a pin or pivot O, which passes through that portion of the gun which serves as sides for the groove.

P designates a longitudinal slot in the side of the barrel of the gun, through which a pin or screw-eye Q extends, one end of the pin or screw-eye engaging one side of the piston J.

R designates a yoke which is secured to the barrel by a pivot S. In this yoke is mounted a cap-seat T.

W designates a projection on the lower portion of the barrel for supporting the yoke when in the dropped position, as shown in Fig. 1.

From the foregoing description of my invention it will be readily seen that by pulling the trigger I the hammer will be raised, thereby raising the lug F partially out of the aperture G, and if the piston J is in the rear end of the barrel it will be released and thereby drawn rapidly forward by the spring or rubber L.

When the piston is drawn forward, the forward end of it will project out of the end of the gun far enough to strike against the cap-seat in the yoke. When the piston has reached the muzzle of the gun, it may be drawn back to the breech by the pin or screw eye Q, and there locked by the engagement of the lug F with the detent K on the rear end of the piston. It will be seen that the piston at its rear end is inclined or beveled, as shown in Figs. 2 and 3 of the drawings, and when the piston is being drawn back the lug will be forced upward, thus permitting the piston to pass backward. When the piston has passed backward a sufficient distance to bring the detent under the lug, the said lug will be forced downward by the spring-hammer, thereby

locking the piston. When the piston has been locked, if it is desired to shoot darts or arrows, one of the darts or arrows is placed in the barrel of the gun and allowed to drop as far as the forward end of the piston. When the trigger is pulled, the hammer will be raised, and with it the lug, thereby releasing the piston. When the piston has been released, it will be drawn forward rapidly and forcibly by the rubber or spring, thereby forcing the dart or arrow out of the barrel.

If it is desired to explode torpedoes or caps, the yoke R is turned down over the end of the barrel and allowed to rest upon the projection W. In the cap-seat T is placed a torpedo or cap, and the piston is drawn back to the rear end of the barrel. The trigger is pulled, thereby releasing the piston, which will be drawn to the muzzle of the gun, as before described, the forward end projecting out of the muzzle of the gun just far enough to strike against the torpedo or cap in the cap-seat, and thereby causing the same to explode.

Having thus fully described my invention, I desire to secure by Letters Patent of the United States—

A toy gun consisting of the barrel having the yoke pivoted to the end thereof, the stock having the spring-hammer secured thereto, the piston arranged in the barrel and adapted to be engaged by the spring-hammer, and the trigger pivoted in the stock and bearing against the spring-hammer, the action of the trigger releasing the hammer from engagement with the piston, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

THOMAS ADAMS.

Witnesses:
STEPHEN G. GUERNSEY,
JOSEPH A. SPRATT.