Feb. 7, 1933. H. F. NELSON 1,896,913

TOY

Filed July 7, 1931

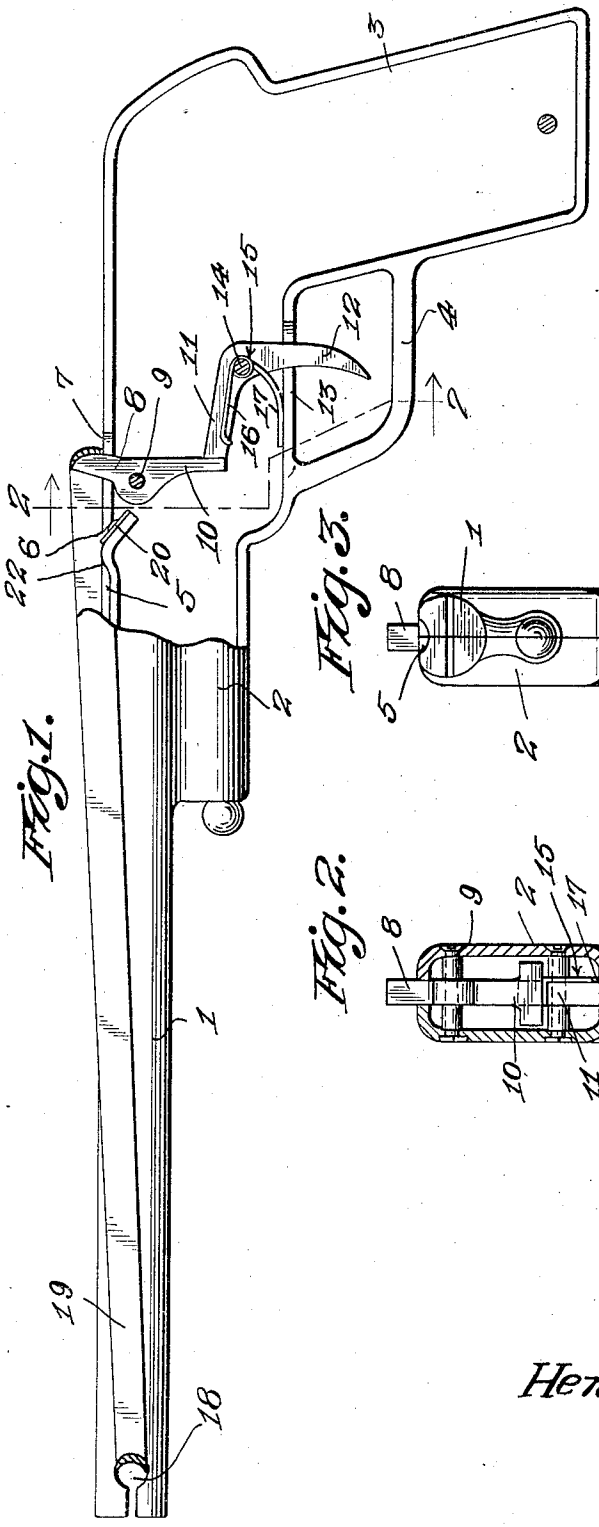


Fig. 1.

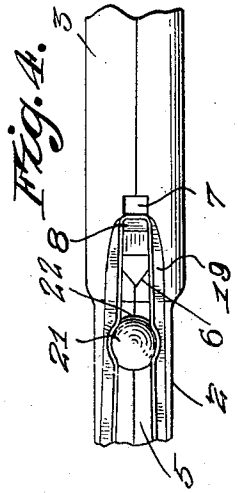


Fig. 4.

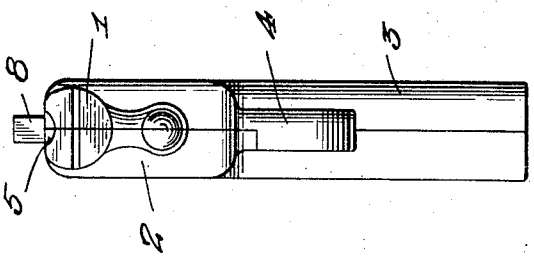


Fig. 3.

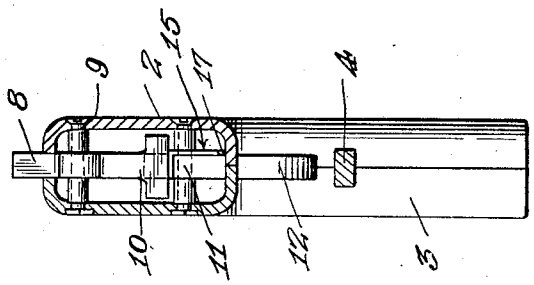


Fig. 2.

Henry F. Nelson, INVENTOR

BY Victor J. Evans and Co. ATTORNEY

Patented Feb. 7, 1933 1,896,913

UNITED STATES PATENT OFFICE

HENRY F. NELSON, OF MUNCIE, INDIANA, ASSIGNOR TO CLAY PROSSER, OF MUNCIE, INDIANA

TOY

Application filed July 7, 1931. Serial No. 549,272.

My present invention has reference to a new and novel construction of toy pistols, and one of the primary objects of the invention is the provision of a toy pistol which may be employed for firing paper caps and which may be likewise employed for forcibly projecting other ammunition, such as arrows, marbles, beans, corn, pebbles, etc.

A further object is the provision of a toy pistol whose barrel at its upper portion is grooved longitudinally and which barrel has attached to the outer end thereof an elastic band to engage with a hammer to hold the trigger thereagainst and the hammer cocked, the barrel, at the inner terminal of its groove being formed with a slot for the reception of an explosive paper cap, while any ammunition may be arranged in the groove of the barrel and the band, when the trigger is pulled, will be released from the hammer to cause the hammer to forcibly contact with the cap to explode the same and to likewise cause the band to engage with the ammunition in the slot to forcibly eject the same therethrough and away from the pistol.

A further object is the provision of a novel construction and arrangement of trigger and the hammer with which the trigger cooperates.

To the attainment of the foregoing the invention consists in the improvement hereinafter described and definitely claimed.

In the drawing:

Figure 1 is a side elevation of a toy pistol in accordance with this invention, parts being broken away and parts in section, and illustrating the hammer in cocked position.

Figure 2 is a sectional view approximately on the line 2—2 of Figure 1.

Figure 3 is an end view of the toy pistol.

Figure 4 is a fragmentary top plan view showing a sphere arranged in the groove of the barrel to be projected when the elastic band is permitted to expand.

In construction the pistol is made up of two castings, each of which is of a similar form and the same are connected by bolts or rivets to provide a barrel 1, a rear portion or stock 2 provided with a handle 3 and a trigger guard 4. The barrel, from its outer end and for its entire length is grooved, as at 5, and the stock, at the terminal of the groove is provided with an angularly arranged notch 6, the outer wall of which is solid and this slot provides a chamber for a paper cap. The stock, at the rear of the slot or chamber 6 has its upper portion slotted, as at 7, and through this slot the upper end of the hammer 8 projects. The hammer has its body portion pivoted, as at 9, in the pistol and the same terminates into a reduced and what I will term a tail portion 10 that is designed to be contacted by the upper angle arm 11 of a trigger 12. The arm 11 of the trigger passes through a slot 13 in the pistol above the guard 4 so that this finger end of the trigger is received in the guard. The trigger, at the juncture of the angle portions provided thereby is pivoted, as at 14, in the hollow body of the pistol and around this pivot there is arranged the coil portion 15 of a spring, one arm of which is indicated by the numeral 16 and has its end rounded and is arranged about the lower edge of the arm 11 of the trigger. The second arm 17 of the spring is arched and is in contact with the wall of the pistol at the portion thereof provided with the slot 13.

The outer end of the barrel 1 is provided with a key hole slot 18 and there is designed to be passed through the restricted and to be received in the widened passage of the said slot, an elastic band 19. The band is drawn so that the same is received over the projecting end of the hammer when the arm 11 of the trigger is in contact with the hammer. Either or both a paper cap 20 may be arranged in the slot or chamber 6 and a sphere or like projectile 21 may be arranged in the groove 5 to rest upon the shoulder 22 provided at the terminal of the said groove,

the said shoulder being located opposite the cap receiving slot or chamber. The end 12 of the trigger is operated to draw the arm 11 thereof off of the tail end of the hammer which permits the contraction of the elastic band 19, causing the same to forcibly move against and explode the cap, and cause the endless band 19 to forcibly contact with the element 21 to forcibly project the same through the groove 5 of the barrel 1. Thus when an explosive cap and a projectile are simultaneously employed a loud report is made as the projectile is forcibly caused to leave the pistol. The tail end 10 of the hammer 8 will, when the hammer is thus released, lie over the arm 11 of the trigger so that it is merely necessary that the operator grip the projecting end of the hammer and swing the same to the position disclosed by Figure 1 to cause the tail to travel over the arm 11 to permit of the arms 16 and 17 of the spring 15 to automatically swing the trigger on the pivot 14 to bring the end of the arm 11 against the tail 10 of the hammer. The elastic band is stretched and brought over the top or projecting portion of the trigger 3. This holds the trigger in cocked position and the tail end thereof tightly against the outer end of the arm 11 of the trigger, so that the pistol is now in a position to receive ammunition and the parts operable to explode and to project the ammunition.

The simplicity of the construction and the advantages thereof will, it is thought, be readily apparent to those skilled in the art to which the invention relates so that further detailed description will not be required. Obviously the toy pistol may be employed for exploding caps without projecting ammunition, such as arrows, marbles, beans, corn, pebbles, etc. through the groove of the barrel thereof and may be employed for projecting such articles without employing the paper caps. The construction is simple and the device may be cheaply manufactured and commercialized.

While I have herein set forth a satisfactory embodiment of my improved device it is to be understood that I do not wish to be restricted to the precise details of construction herein set forth and, therefore, hold myself entitled to make such changes therefrom as fairly fall within the scope of what I claim.

Having described the invention, I claim:

A toy pistol for individually or simultaneously exploding a cap and projecting a pellet or the like, said pistol having the top of its barrel grooved longitudinally and having a cap receiving chamber at the terminal of the groove and a rounded shoulder between the chamber and the groove, a pivotally supported hammer having a tail end, a pivotally supported trigger having an angle end, a spring wound around the pivot of the trigger contacting the angle portion and with the bottom of the pistol for normally swinging the trigger angularly to cause the tail of the hammer to ride over the angle end of the trigger and to be then engaged thereby, an elastic band removably secured on the outer end of the barrel and designed to be stretched and brought over the hammer for holding the tail end thereof in friction engagement with the arm of the trigger and for likewise holding the hammer in cocked position.

In testimony whereof I affix my signature.

HENRY F. NELSON.