Feb. 2, 1926. 1,571,643

T. M. RENICK

TOY

Filed Feb. 5, 1925

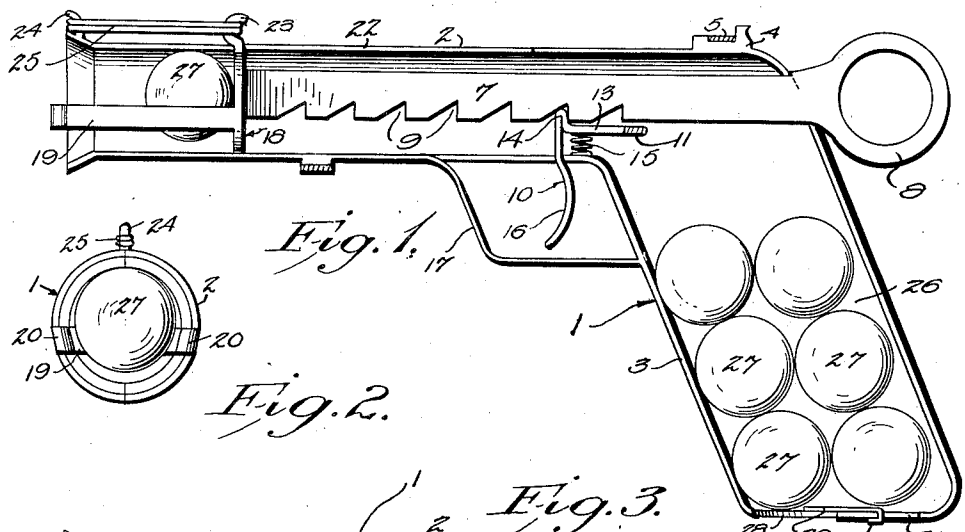


Fig. 1.

Fig. 2.

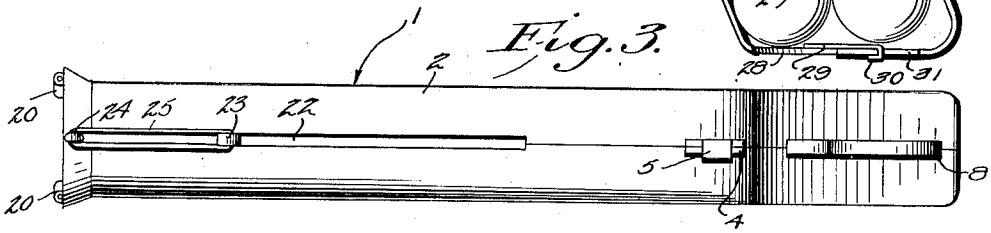


Fig. 3.

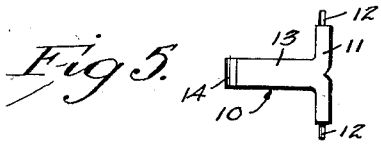


Fig. 5.

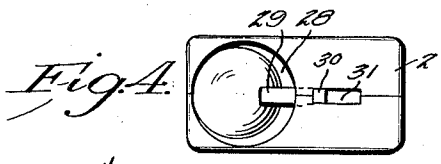


Fig. 4.

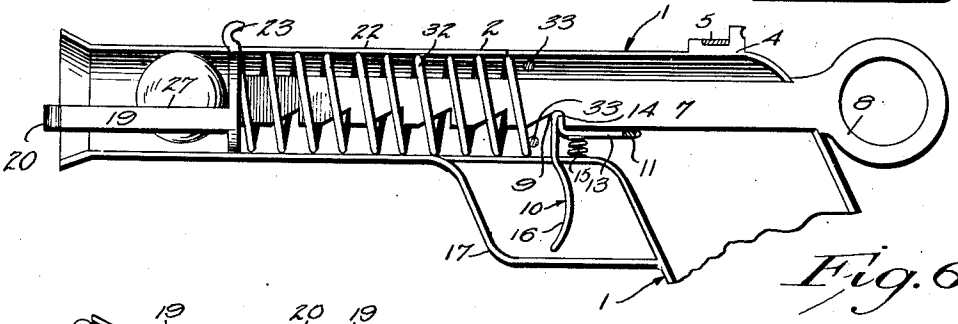


Fig. 6.

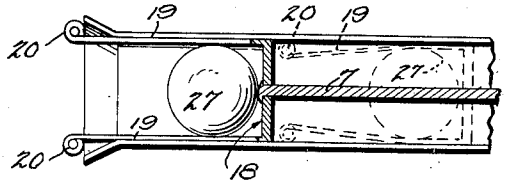


Fig. 7.

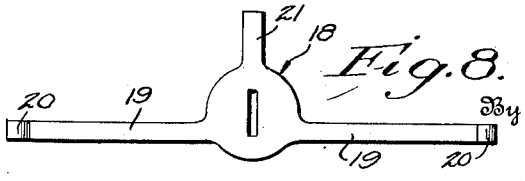


Fig. 8.

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By

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Patented Feb. 2, 1926. 1,571,643

UNITED STATES PATENT OFFICE.

TOMMIE M. RENICK, OF MORGANTOWN, WEST VIRGINIA.

TOY.

Application filed February 5, 1925. Serial No. 7,095.

To all whom it may concern:

Be it known that I, TOMMIE M. RENICK, a citizen of the United States, residing at Morgantown, in the county of Monongalia and State of West Virginia, have invented certain new and useful Improvements in Toys, of which the following is a specification.

This invention relates to toys, and more particularly to toy pistols.

An object of the invention is the provision of a toy pistol for shooting marbles or similar spherical devices in which the force projecting the marble may be varied.

In the present invention, I provide a plunger adapted to be held under tension, the plunger being provided with a plurality of notches, and I further provide a trigger adapted to engage a selected notch to place the plunger under the desired tension.

The body of the gun is made of sheet metal, materially reducing the cost of manufacture, and the butt is provided with a compartment to hold marbles.

In the accompanying drawings, I have shown several embodiments of the invention. In this showing:

Figure 1 is a central vertical sectional view,

Figure 2 is a front elevation,

Figure 3 is a top plan view,

Figure 4 is a bottom plan view of the butt of the gun,

Figure 5 is a detail view of the trigger,

Figure 6 is a central vertical sectional view showing a modified form,

Figure 7 is a horizontal sectional view through a portion of the barrel of the gun, and,

Figure 8 is a plan view of the blank from which the marble holder is formed.

Referring to the drawings, the gun comprises a pair of sections 1 shaped to form a barrel 2 and a butt 3. These sections may be stamped from sheet metal or formed in any other suitable way and are secured to each other in any suitable manner. As shown, I provide one section of the gun with a projecting lug 4 and the opposite section with a projecting finger 5, adapted to fit over this lug. On the bottom of the barrel, I provide a similar finger 6, adapted to engage a lug (not shown) on the other section. A plunger 7 is arranged within the barrel and projects through an opening at the rear. The projecting end of the plunger is provided with a handle 8. The lower surface of the plunger is provided with a plurality of notches 9 adapted to receive a trigger 10. As shown, the trigger is substantially T-shaped and the cross arm 11 is provided with trunnions 12 that are adapted to be received in the walls of the barrel to pivotally support the trigger. The other arm 13 of the trigger is provided with an offset portion 14 at its end, which is adapted to engage one of the notches in the plunger. As shown, the trigger is normally held in operative position by means of a spring 15. The end of the trigger projects downwardly and is curved to form a hand grip 16, by means of which the trigger is operated. This hand grip may be surrounded by a guard or shield 17.

A marble is held in the front of the barrel by means of a cage 18. As shown, the cage consists of a plate substantially circular in shape and adapted to be secured to the end of the plunger. This plate is provided with a pair of arms 19 projecting outwardly from the plunger and having curved ends 20. The plate is further provided with a projecting arm 21 which extends upwardly through a slot 22 in the top of the barrel and is provided with a hook 23 on its upper end. The end of the barrel is also provided with a hook 24 and a rubber band 25, or similar elastic member, is arranged over these hooks.

The butt of the gun is provided with a compartment 26 for the reception of marbles 27. As shown, the butt is provided with an opening 28 large enough to permit the removal of marbles. An arm 29 extends over this opening and when in projected position, prevents the withdrawal of marbles. As shown, the end of this arm is offset as at 30, forming a finger grip and is passed through a slot 31 in the butt of the gun.

In the form of the invention shown in Figure 6 of the drawings, a coil spring 32 is employed in place of the rubber band. This coil spring is arranged around the plunger, one end of it bearing against the plate 18 and the other end bearing against transverse pins 33 arranged in the barrel.

In operation, the marble is placed in the cage and the plunger is then drawn inwardly by means of handle 8. As the cage passes into the barrel of the gun, the curled ends 20 of the arms 19 force these arms inwardly, as shown in dotted lines in Figure

7 of the drawings, thus securely holding the marble in position. As the plunger is drawn inwardly, the rubber band 25 is stretched, and the spring 32 is placed under tension. By providing a plurality of notches 9, the force exerted on the plunger may be regulated. When the plunger is drawn inwardly, the spring 15 automatically forces the trigger into engagement with one of the notches to hold the plunger in set position. By releasing the trigger, the plunger is forced outwardly by the tension of the rubber band 25 or spring 32 and when the ends of the arms 19 reach the end of the barrel of the gun, the arms assume the position shown in Figures 1 and 7 of the drawings, releasing the marble. The marble is then projected in the usual manner.

It is to be understood that the forms of my invention herewith shown and described are to be taken as preferred examples of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. In a toy pistol, a barrel, a plunger mounted in said barrel, said plunger being provided with a plurality of notches on its lower face, a trigger adapted to engage one of said notches to retain the plunger in retracted position, a cage mounted on the end of said plunger and adapted to retain a marble, said cage comprising a disk having a pair of arms extending forwardly therefrom, the top of said barrel being provided with a slot, a hooked arm carried by said cage and extending through said slot, and an elastic member secured to said arm and to said barrel to place said plunger under tension when it is retracted.

2. In a toy pistol, a barrel, a plunger mounted in said barrel, said plunger being provided with a plurality of notches on its lower surface, means for retaining said plunger in retracted position, elastic means for projecting said plunger when said retaining means are released, and a cage secured to the outer end of said plunger, said cage being provided with a pair of arms adapted to contact with a marble in the cage to retain it in position, said arms being flexed toward each other when the plunger is in retracted position.

3. In a toy pistol, a pair of complementary members formed of sheet metal and adapted to provide a barrel and a butt, a plunger in said barrel, a trigger to retain said plunger in withdrawn position, means for projecting said plunger when the trigger is released, the interior of the butt of the pistol being adapted to form a compartment for marbles and being provided with an opening therein, and means for normally closing said opening.

4. In a toy pistol, a barrel, a plunger mounted in said barrel, a cage secured to the outer end of the plunger, the lower end of said plunger being provided with a plurality of notches, elastic means to project said plunger, and a trigger to normally retain said plunger in retracted position, said trigger being formed of a substantially T-shaped member having the ends of the cross arm rotatably mounted in the walls of the barrel.

In testimony whereof, I affix my signature.

TOMMIE M. RENICK.