

J. D. KILGORE.  
TOY PISTOL.

APPLICATION FILED JUNE 24, 1912.

1,041,804.

Patented Oct. 22, 1912.

Fig 1

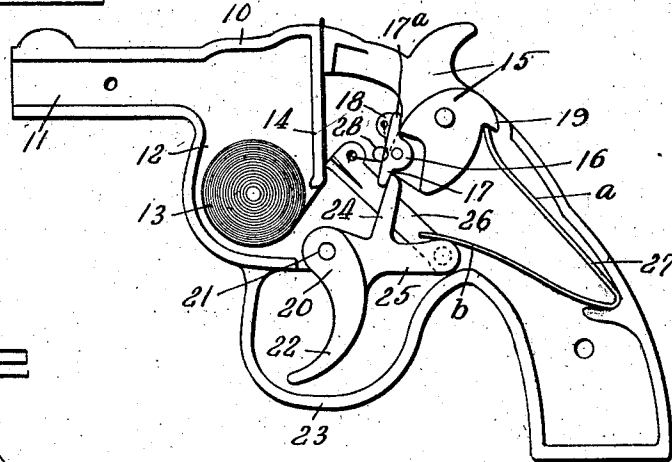


Fig 2

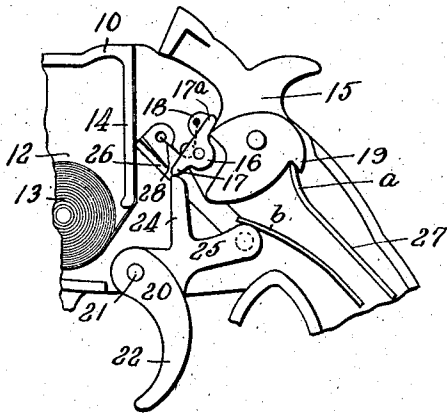


Fig 3

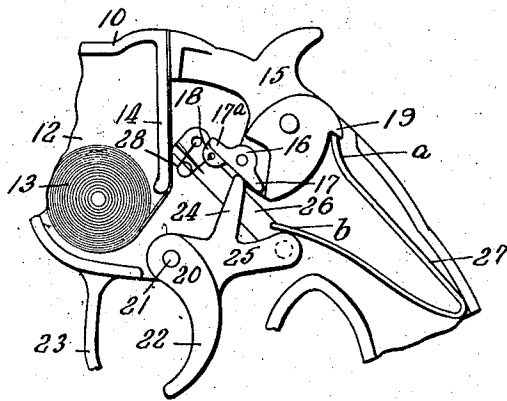


Fig 4

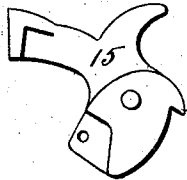


Fig 5

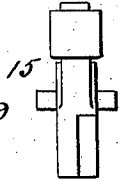


Fig 7

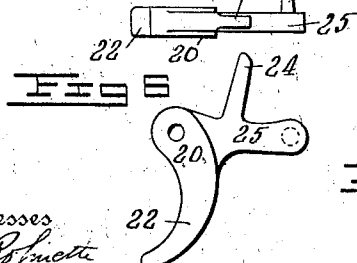


Fig 8

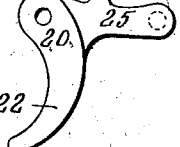


Fig 11

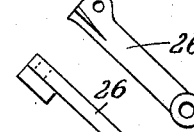


Fig 10

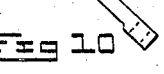
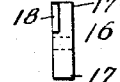


Fig 9



Fig 12



Inventor

Joseph D. Kilgore

By

August L. Schuman

Attorney

Witnesses  
H. C. Roberts

*Handwritten signature of H. C. Roberts*

# UNITED STATES PATENT OFFICE.

JOSEPH D. KILGORE, OF HOMESTEAD, PENNSYLVANIA, ASSIGNOR TO LOUIS EDWIN ROTT, OF HOMESTEAD, PENNSYLVANIA.

## TOY PISTOL.

1,041,804.

Specification of Letters Patent.

Patented Oct. 22, 1912.

Application filed June 24, 1912. Serial No. 705,612.

*To all whom it may concern:*

Be it known that I, JOSEPH D. KILGORE, a citizen of the United States, residing at Homestead, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Toy Pistols, of which the following is a specification.

This invention relates to toy pistols designed for exploding what is generally known as "paper caps" and more particularly to a repeating pistol wherein the caps used are supplied in strips.

The pistol of the present invention is so constructed that a strip of paper cap ammunition wound in a roll may be placed in a receptacle below the barrel, from which it is automatically fed by suitable means past the hammer to successively bring the caps or explosive charges thereon into firing position at each pull of the trigger.

The pistol is simple in construction and consists of few parts, a hammer, a trigger and a spring to actuate both, an escape dog between the hammer and tripper, a cap strip feeding finger, and a second spring between the dog and the finger.

For the purpose of more clearly presenting this invention that it may be fully understood, attention is directed to the accompanying drawing and to the following detailed description.

Figure 1 is a side elevation of a toy pistol embodying the invention with one side of the casing removed and the parts in a normally discharged position. Figs. 2 and 3 are similar views of the firing mechanism only but with the parts differently disposed. Figs. 4 and 5 are detail views of the hammer. Figs. 6 and 7 are similar views of the trigger. Figs. 8 and 9 represent side and front views of the escapement dog. Figs. 10 and 11 show side and top views of the cap strip feeding finger.

In the drawings, the numeral 10 designates the frame or casing of the toy which resembles a pistol in outline and which may be cast in two similar halves joined in the longitudinal center of the pistol and riveted or otherwise secured together, or the frame may be cast for the greater part of one piece, open on one side to receive the mechanism which, after being inserted, is closed by a plate rigidly fixed to the main frame. Both methods of construction are old and well known.

At the front of the frame 10 below the barrel 11 is a chamber 12 to receive a paper cap strip 13 wound into a roll from whence it is fed upward against a vertical wall or firing abutment 14 in rear of the barrel 13. Pivoted within the frame 10 but adapted to swing through an opening in the top of the same is the hammer 15, the forward end of which is arranged to strike squarely against the firing abutment 14 or the cap strip 13 when the latter is in position.

Pivoted on the underside of the hammer 15 is an escapement dog 16 formed with a depending finger 17 and an upstanding finger 17<sup>a</sup>, on which latter finger is a lug 18. Below the hammer 15 a trigger 20 is pivoted on a pintle 21. This trigger comprises substantially three radiating members, namely the finger piece 22 projecting below the frame 10 for firing the pistol and protected by a guard 23, a hammer cocking arm 24, and a rearwardly extending arm 25 on which the cap strip feeding pawl 26 is fulcrumed. The cocking arm 24 extends upward into position to engage the finger 17 of the escapement dog and retract or cock the hammer when pressure is applied to the finger piece 22 of the trigger. The cap strip feeding pawl 26 pivoted at one end to the rear of the arm 25 extends forwardly and upwardly at an angle, its free end being somewhat sharp and bearing against the cap strip 13 as it lies against the abutment 14. A U-shaped spring 27 is engaged at one end *a* with a shoulder 19 on the hammer, and at its other end *b* with the arm 25 of the trigger. This single spring is sufficient to return the trigger when released by the finger, and to drive the hammer forward with ample force to explode the caps. A second smaller spring 28 lies between the escapement dog 16 and the strip feeding pawl 26, being attached to the lug 18 on the former, and to the forward end of the latter, as shown, which spring holds the pawl against the cap strip, and the finger 17 of the dog in position to be engaged by the cocking arm 24.

The operation of the pistol is apparent from the above description and the several views of the drawing. Every time the trigger is pulled, the hammer will be raised, the feeding pawl 26 will simultaneously act on the cap strip 13 to raise a cap or explosive spot on said strip into position to be struck

by the hammer when it falls, which it does automatically by the force of spring 27 after the cocking arm has raised the hammer and slipped past the finger 17 of the dog. On releasing the trigger, the cocking arm 24 and feeding pawl return to normal position under tension of the same spring 27.

It will be seen that a toy pistol constructed as above described is very simple, cheap and strong, and will not readily get out of order. There are but few movable parts, the hammer, the trigger, the strip feeding pawl, and the dog, a spring to actuate the hammer and the trigger, and a second spring to hold the pawl and dog in place.

What I claim is:

1. A toy pistol comprising a frame having a firing abutment, a hammer, an escape dog pivoted on the hammer, a cap strip feeding pawl, a trigger having a rigid arm for actuating the hammer through the dog, and a second arm on which the feeding pawl is pivoted for actuating said pawl, a return spring for the hammer and trigger, and a second spring tending to hold the dog and the pawl to their work.

2. A toy pistol comprising a frame having a firing abutment, a hammer, an escape dog pivoted on the hammer and free to be moved in one direction, a cap strip feeding pawl bearing at its free end against said abutment, a trigger having a rigid arm to engage the dog and actuate the hammer, and a second arm to which the feeding pawl is pivoted and by which it is operated, a U-shaped return spring for the hammer and the trigger and a second spring connected to the dog and pawl for holding them in operative position.

3. A toy pistol comprising a frame having a firing abutment, and a chamber to receive

a roll of paper cap ammunition, a hammer arranged to strike said abutment, an escape dog having a depending finger, pivoted on the hammer and free to be moved in one direction, a cap strip feeding pawl bearing at its free end against said abutment to feed the ammunition strip to the hammer, a trigger having a rigid arm arranged to engage the finger on said dog and raise the hammer to firing position, then slip from said finger and permit the hammer to fall, said dog turning on its pivot to permit the return of the operating arm on the trigger, a second rigid arm on the trigger to which the cap strip feeding pawl is pivoted and by which it is operated to advance the cap strip, a single spring arranged to return the hammer, trigger and cap strip feeding pawl to normal position, and a second spring connected to the dog and pawl for holding them to their work.

4. A toy pistol comprising a frame having a firing abutment, a forwardly striking pivoted hammer, and an escape dog pivoted on said hammer below the pivotal axis of the latter, a trigger having an arm that engages said dog to raise the hammer to firing position and then escapes from the dog to permit the hammer to fall, a cap strip feeding pawl pivoted on said trigger and bearing at its free end against said abutment, a spring for retracting both the hammer and the trigger, and a second spring for retracting the dog and holding the feeding pawl against the abutment.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH D. KILGORE.

Witnesses:

E. ROTT.

ETHEL H. FISHER.