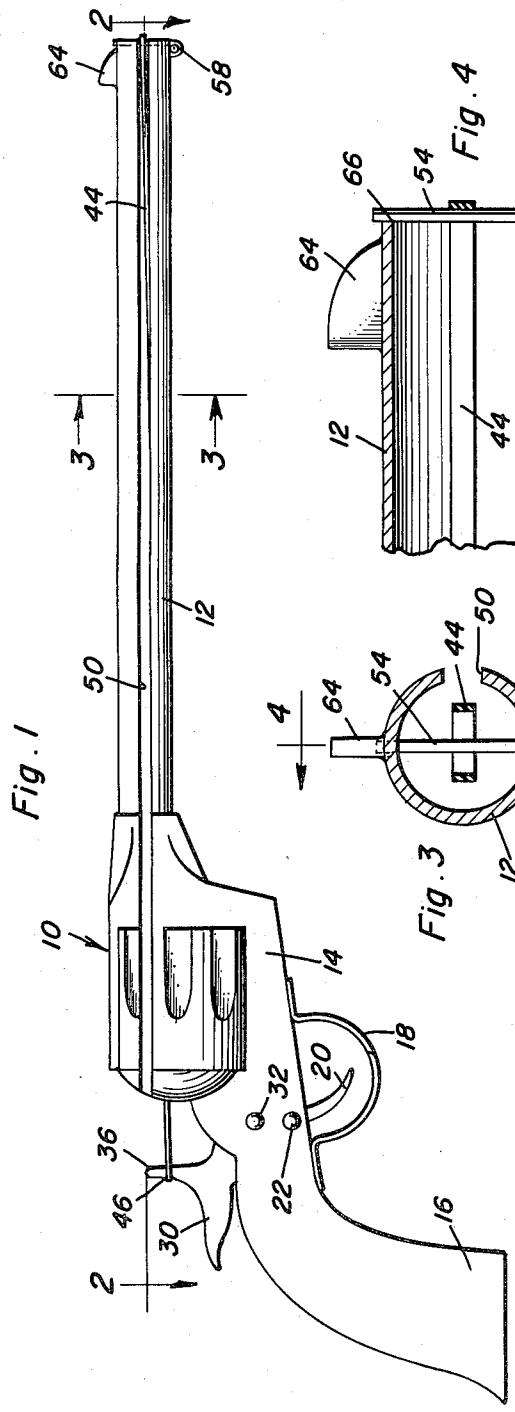
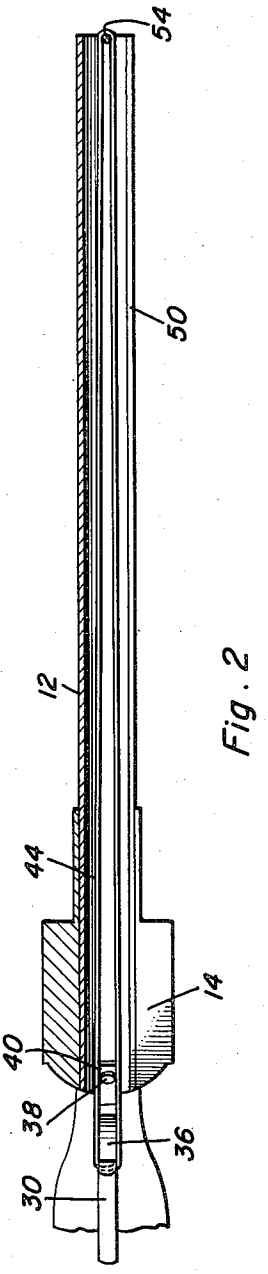
Aug. 11, 1959 C. O. HOVERMALE 2,898,903

TOY GUN

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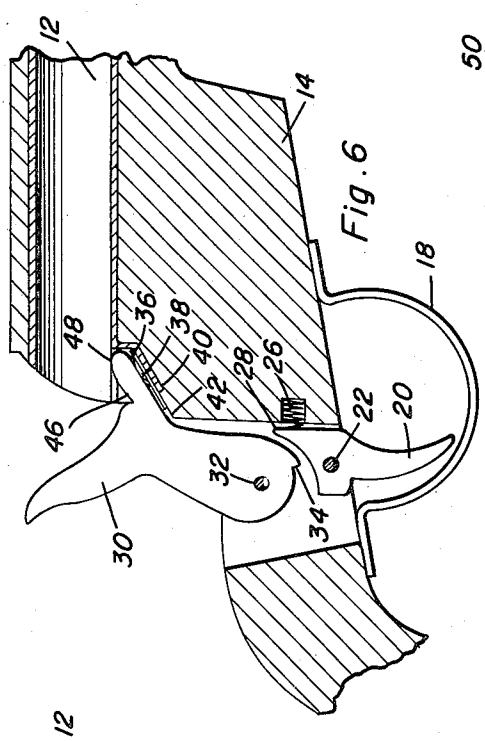


Fig. 6

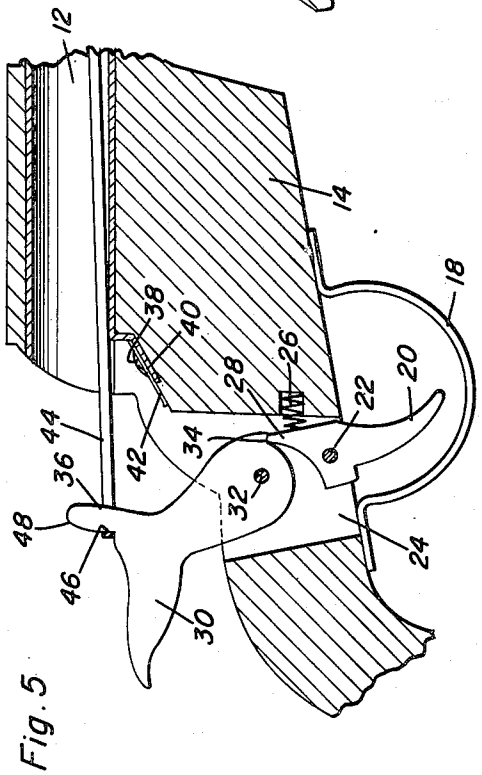


Fig. 5

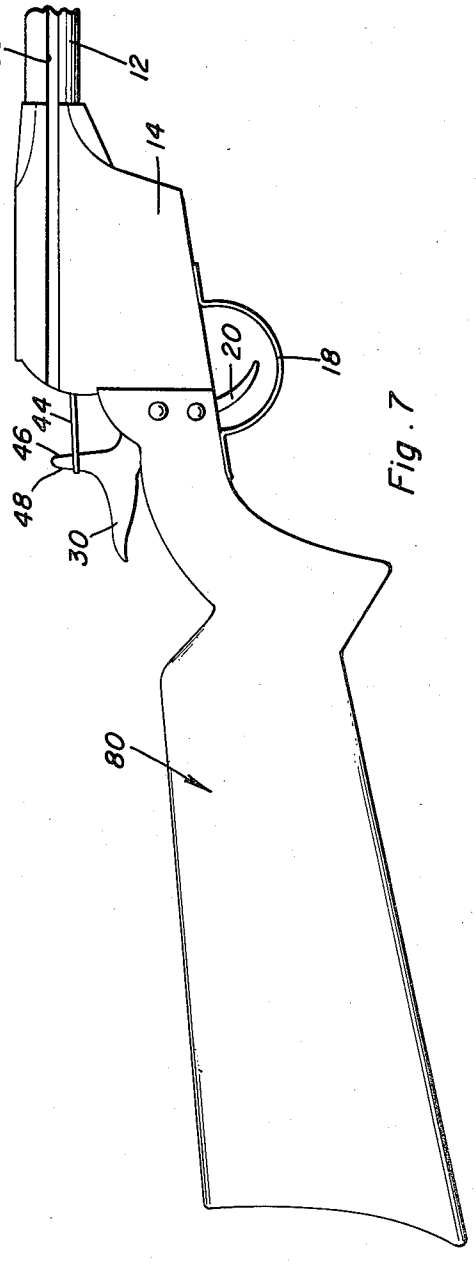


Fig. 7

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TOY GUN

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Application April 30, 1957, Serial No. 656,009

3 Claims. (Cl. 124—2)

This invention relates to a toy gun.

An object of the invention is to provide a toy gun which fires an elastic band through the barrel with the stored energy in the elastic band supplying a propulsive force to a cocking hammer upon firing the gun, the propulsive force being sufficient to enable the hammer to explode a cap which is located in the normal path of travel of the hammer. The result is that the toy gun shoots a rubber band and fires the cap simultaneously thereby simulating the effect of a real gun.

A further object of the present invention is to provide a toy gun capable of being produced in such a way that it is exceedingly realistic in appearance. One of the features of the gun is the structural means by which the elastic band is accommodated in the toy gun, this being a thin slot extending longitudinally of the barrel in which the rubber band is easily fitted. Very little alteration in the appearance of a real gun is required in the provision of a longitudinal slot down the barrel of the gun to enable the fitting of the elastic band in place. This same elastic band serves the dual purpose of providing the propulsive force for the hammer to fire the cap and functions as a missile.

Another important feature of the invention is to have the gun as realistic as possible and yet have the same be a practical toy. The pivotally mounted pin at the forward end of the barrel serves as a very handy and effective means to hold the elastic band in a stretched condition until fired and here again, this does not disfigure the gun in any appreciable way.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is an elevational side view of an embodiment of the invention showing a toy gun in the cocked position;

Figure 2 is a longitudinal sectional view taken on the line 2—2 of Figure 1;

Figure 3 is a transverse sectional view in enlarged scale and taken on the line 3—3 of Figure 1;

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 3;

Figure 5 is a fragmentary sectional view showing the hammer and trigger arrangement within the stock of the gun;

Figure 6 is a sectional view similar to that of Figure 5 but showing the hammer and trigger in the cap and elastic band firing position; and

Figure 7 is a fragmentary elevational view of another gun constructed in accordance with the invention, this figure showing that the shape of the gun, the stock and other parts may be altered.

In the accompanying drawings there is a toy gun 10 which is constructed in accordance with the invention. This gun includes all of the simulated parts which would be required in the construction of a revolver. Among

these are the barrel 12 which is preferably constructed of metal or plastic, the stock or frame 14 and handle 16. A trigger guard 18 is attached to the frame 14 of the gun and encloses trigger 20.

The trigger is mounted for pivotal movement on a transverse pin 22 which extends across a slot 24 formed in the frame 14 of the gun and which opens downwardly in the region of the trigger guard 18. Spring 26 bears against the sear 28 at the inner end of trigger 20 and constantly biases it toward the hammer locking position. Hammer 30 is mounted for pivotal movement on pin 32, the latter extending across slot 24. Land 34 is formed on the inner end of hammer 30 and is engaged by sear 28 to hold the hammer 30 releasably in the cocked position (Figure 5). The hammer has an anvil 36 thereon which is adapted to be brought forcibly against cap 38 which is located on the cap rest 40. The cap rest (Figure 5) is formed of metal and consists of a plate mitered or recessed in angulated land 42 which is located directly in the path of travel of anvil 36.

The elastic band 44 which is either a rubber or plastic band, is adapted to attach at one end over the side of anvil 36 opposite to that which is brought against cap 38. A slightly inclined surface 46 at the base of the anvil 36 forms a seat for band 44, and the surface 48 extending outwardly to the extremity of anvil 36 is inclined to enable the band 44 to very easily slide thereover.

A longitudinal slot 50 extends down one side of barrel 12 and through the aligned part of the frame of the gun. Slot 50 provides an entrance for the elastic band 44 when loading the gun. As described previously the elastic band 44 is fitted on seat 46 of hammer 30. The other end of the elastic band is engaged over a pivotal pin 54 which has an eye 56 at the lower end. This eye is mounted for oscillation on pivot pin 58, the latter being supported by ears 59 and 60 which depend from the barrel 12 beneath the gun sight 64. Notch 66 is formed in the barrel 12 in advance of gun sight 64 and is adapted to seat the upper end of the pin 54 after the elastic band 44 is applied thereto.

In operation, the elastic band 44 is applied to pin 54 and then pulled through the slot 50 and applied to the band seat 46. The hammer 30 is cocked at the same time thereby engaging sear 28 with the land 34. The gun is optionally used with the cap or rubber band or with both. When the cap is to be used with the rubber band, the same is applied on the cap seat 30. Then when the trigger 20 is pulled, the elastic band 44 provides the propulsive force for the hammer 30, bringing it forcibly against the cap 38 and in so doing, it passes between the two sides of the elastic band in the downward motion of the hammer. The hammer will remain in the depressed position until the gun is manually recocked.

As shown in Figure 7 gun 80 is of a different external appearance. Other appearances may be devised without departing from the invention. Similarly, other modifications as fall within the scope of the claims may be resorted to.

What is claimed as new is as follows:

1. A toy gun comprising a barrel having a longitudinal slot extending from end to end thereof, an elastic band, an elastic band supporting pin at one end of said barrel, means mounting said elastic band supporting pin for pivotal movement in a direction to clear the barrel or to block the barrel when in the elastic band supporting position, a hammer mounted for pivotal movement on the gun, a trigger, means operatively connecting said trigger with said hammer to hold said hammer in a cocked position, an elastic band seat in said hammer and adapted to support said elastic band to hold the same in the stretched position, and means for resiliently biasing said trigger toward one position so that when the same is pulled, said hammer

is released enabling the elastic band thereon to slip therefrom and be propelled through the said barrel and release said pivotal pin to enable the elastic band to slip thereover, a seat in the gun and located within the path of travel of the hammer, said hammer having an anvil thereon in order to fire a cap when said hammer is being propelled by the elastic band after release of the hammer by said means connecting said trigger to said hammer.

2. The toy gun of claim 1 wherein the elastic band when in the stretched position has sides which pass on the sides of said anvil so that upon release of the trigger from the hammer said anvil passes between said sides of the elastic band.

3. The toy gun of claim 1 wherein the elastic band when in the stretched position has sides which pass on the

sides of said anvil so that upon release of the trigger from the hammer said anvil passes between said sides of the elastic band, said pin being sufficiently long to span said barrel and being seated when the elastic band is in the stretched condition on the outer end of the barrel at a point diametrically opposite to said means which pivotally supports said pin.

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