Aug. 6, 1929. B. F. MALOTT 1,723,554

TOY GUN

Filed Nov. 22, 1927

Fig. 1.

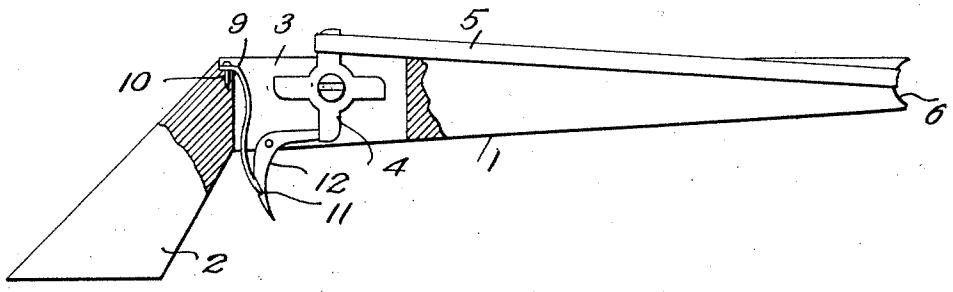


Fig. 2.

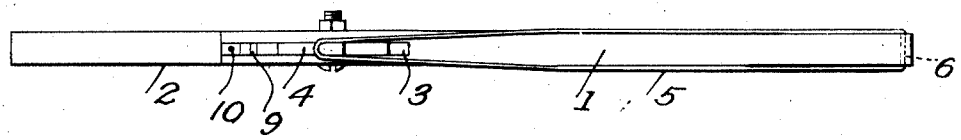


Fig. 3.

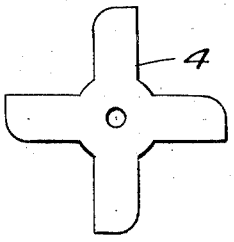
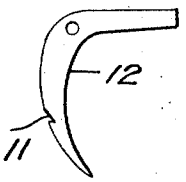


Fig. 4.



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WITNESS:

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Patented Aug. 6, 1929. 1,723,554

UNITED STATES PATENT OFFICE.

BENJAMIN FRANKLIN MALOTT, OF GREENVILLE, SOUTH CAROLINA.

TOY GUN.

Application filed November 22, 1927. Serial No. 235,080.

This invention relates to a toy firearm such as a pistol adapted to project against a target a harmless missile as an elastic band of soft vulcanized rubber.

The invention comprises a pistol formed of wood having a barrel and a grip handle to permit an aim at a target with a recess at the outer end to permit nesting of a rubber elastic band adapted to engage a rotatable hammer having a series of salient radial arms projecting above the plane of the barrel and adapted to constitute a detent for the looped end of a strip elastic band. The rotatable hammer is pivoted in a slot adjacent to the grip end of the pistol lying in a vertical plane transverse to the barrel to permit free rotation of the hammer. Pivoted in the slot near its lower side is a trigger right-angular in shape having a latching nose to engage the radial arms of the hammer and a detent on the rear side near the finger end to receive a flat spring having a right angled upper end perforated to receive a brad when seated on a notch below the upper edge of the slot thereby rendering the spring removable for purposes of renewal.

The invention therefore consists of a toy pistol adapted to project a flexible harmless missile of elastic material having a radial multi-armed hammer pivoted for rotation longitudinally of the barrel, a trigger to engage the same and an elastic flat spring normally setting the trigger in a plane to engage the radial armed hammer.

The details of the invention will be understood in connection with the accompanying drawing, wherein:—

Figure 1 is a part sectional view of a toy pistol embodying my improvements;

Fig. 2 is a plan view;

Fig. 3 is a detail of the hammer; and

Fig. 4 is a detail of the trigger.

Referring now in particular to the drawing, 1 represents the barrel and 2 the handle of a toy pistol and which are preferably formed of a hard wood. Adjacent the handle or grip end 2 is a slot 3 of sufficient width to permit free rotation of a rotatable hammer 4 supported on a set-screw engaging the side walls of the barrel and situated in a slot in the position to permit free rotation of the hammer. The arms of the hammer when in active position stand vertical with respect to the barrel and have a rear curved face to snap the looped end of an elastic band 5 of soft vulcanized rubber adapted to nest in a circular recess 6 on the end of the barrel. A trigger 12 of right-angled shape having a latching nose adapted to engage the rear edge of the hammer is pivoted by a screw or pin in the slot. The rear side of the trigger is provided with a notch 11 adapted to form a seat for a flat spring, the upper edge of which is bent at right angles to nest in a recess in the handle adjacent to the rear wall of the slot as indicated at 9 thereby forming a secure seat for the spring, when the brad 10 passes through a hole formed in the angular end of a spring. I find this design particularly desirable in permitting the renewal of the springs that quickly become deteriorated and require frequent renewal. I am aware that toy explosion guns have heretofore been proposed to throw an elastic missile such as a rubber band but so far as I am aware all of the types coming to my notice have been subject to the difficulty of having the resilient means not readily renewable and therefore subjecting the toy to being discarded after a short period of service. The only portion requiring renewal in my construction is the flat spring which is an inconsequent part of the entire device and for which a new one which ordinarily is provided with the outfit can easily be put into service by driving a brad in the wood at the handle to secure the spring.

In using the device a rubber band which may be cut from a part of a discarded inner tire of an automobile or may be formed of an ordinary rubber elastic band, which is looped over the notch 6 in the barrel and brought into engagement with one of the radial arms of the hammer which by a rotation rearwardly of 90° is always set ready to be in a position to cock the piston by looping the ends of the stretched band over one of the radial arms.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

A toy pistol comprising a handle, a barrel formed with said handle and being slotted at its juncture with the handle, a rotatable hammer, radiating arms included in said hammer and the adjacent arms being arranged at right angles to each other, said arms having a flat face opposed to a round face, said barrel having a recess formed in its free end and

adapted to receive one end loop of an elastic band while the opposite end loop thereof is received by the rounded face of any one of the arms that may be disposed in operative position, a trigger engageable with the flat faces of the arms, and a spring for the trigger and having one end detachably secured in a recess formed in the handle, and its opposite end being received in a notch formed in the trigger for holding the latter in engagement with the flat faces of the arms.

In testimony whereof I affix my signature.

BENJAMIN FRANKLIN MALOTT.