Aug. 11, 1931. C. C. SHIGLEY 1,818,763

TOY GUN

Filed Jan. 13, 1930

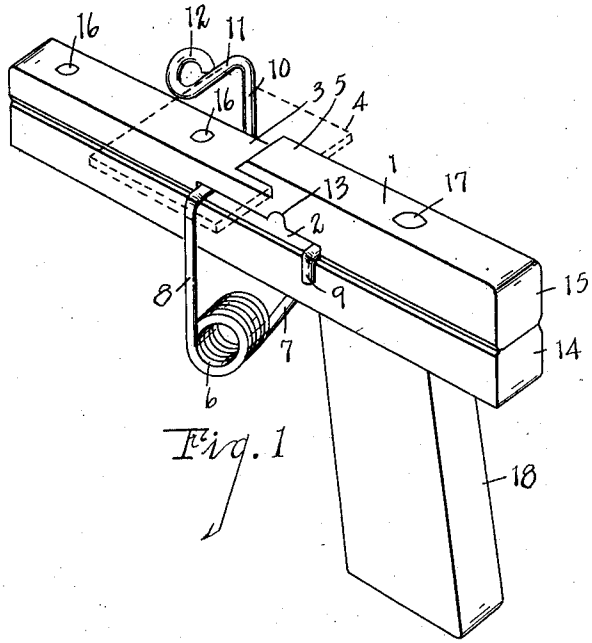


Fig. 1

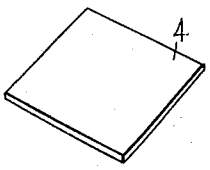


Fig. 4

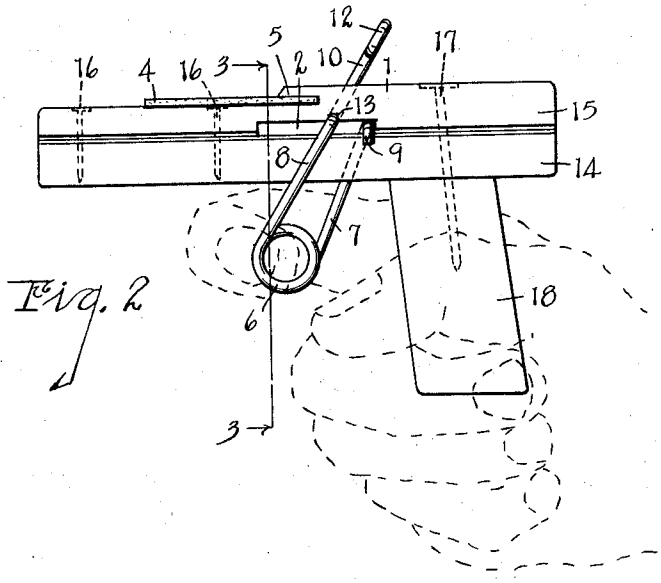


Fig. 2

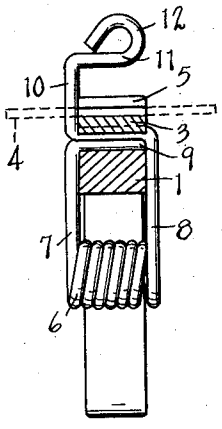


Fig. 3

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UNITED STATES PATENT OFFICE

CYRUS C. SHIGLEY, OF KALAMAZOO, MICHIGAN

TOY GUN

Application filed January 13, 1930. Serial No. 420,414.

The main object of this invention is to provide a toy gun which is very effective in propelling a projectile such as a cardboard disk for substantial distances.

A further object is to provide a toy gun of the projectile throwing class which may be produced very economically and at the same time is not likely to get out of repair.

Objects pertaining to details and economies of my invention will definitely appear from the description to follow. The invention is defined in the claims.

A structure which embodies the features of my invention is clearly illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view of my improved toy gun, a projectile being shown in loaded position by dotted lines.

Fig. 2 is a side elevation with the impeller and projectile in position, the manner of manipulating the gun being illustrated by dotted lines.

Fig. 3 is a detail view partially in section on line 3—3 of Fig. 2.

Fig. 4 is a perspective view of a projectile.

My toy gun comprises a barrel member 1 having a longitudinal slot 2 therein and a flat seat 3 having a projectile 4. A rectangular piece of cardboard is suitable as a projectile. A tongue 5 overhangs the rear end of the seat, the purpose of which will appear later.

I provide a combined trigger and impeller which consists of a coiled spring 6 having angled arms 7 and 8 at the ends thereof, these arms being arranged through the slot as shown in the drawing with the arm 7 constituting a supporting member engaging the rear end of the slot. The arm 7 terminates in a downturned retaining lug 9, while the arm 8 has a part projecting upwardly at the side of the barrel to constitute a striker or projectile engaging member. This part 10 terminates in a laterally turned finger piece 11 overhanging the barrel and provided with an eye 12 to provide a better grasping surface.

To provide a keeper for holding the impeller or trigger in set position I form a transverse notch 13 in the upper wall of the slot, spaced from the forward end of the slot and preferably from the rear end of the seat, as shown in the drawing, so that when the impeller is released from the slot it strikes the edge of the projectile with a blow rather than merely pushing or snapping it.

For convenience in manufacture the barrel is preferably made of two longitudinally divided sections 14 and 15 secured together by means of the nails 16 and 17, the nails 17 also securing the grip 18 to the barrel. This permits the trigger to be set merely by pulling rearwardly on the finger piece 11, the action of the spring throwing the impeller arm into engagement with the keeper and retaining it in engagement until the trigger is pulled, which swings the combined trigger and impeller member rearwardly around the barrel engaging portion of the arm 7 as a pivot. The impeller arm is thereby released and actuated by the power stored in the spring.

The parts of my improved gun are very economical and may be rapidly assembled.

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

1. A toy gun comprising a longitudinally slotted barrel provided with a grip and having a flat projectile seat disposed with its rear end in overlapping relation to said slot, the upper wall of said slot being transversely notched in spaced relation to the front end of the slot providing a keeper, said barrel having a forwardly projecting tongue overhanging the rear end of said projectile seat, and a combined trigger and impeller consisting of a coiled spring having oppositely disposed angled arms at the ends thereof arranged in said slot, one arm constituting a supporting member engaging the rear end of the slot and terminating in a laterally turned retaining lug, the other arm constituting a striker and being engageable with said keeper, said striker arm having a projectile engaging portion projecting upwardly at the side of the barrel and terminating in a laterally disposed finger piece overhanging the barrel.

2. A toy gun comprising a longitudinally slotted barrel provided with a grip and hav-

ing a flat projectile seat disposed with its rear end in overlapping relation to said slot, the upper wall of said slot being transversely notched in spaced relation to the front end of the slot providing a keeper, said barrel having a forwardly projecting tongue overhanging the rear end of said projectile seat, and a combined trigger and impeller consisting of a coiled spring having oppositely disposed angled arms at the ends thereof arranged in said slot, one arm constituting a supporting member engaging the rear end of the slot, the other arm constituting a striker and being engageable with said keeper.

3. A toy gun comprising a longitudinally slotted barrel provided with a grip and having a flat projectile seat disposed with its rear end in overlapping relation to said slot, the upper wall of said slot being transversely notched in spaced relation to the front end of the slot providing a keeper, and a combined trigger and impeller consisting of a coiled spring having oppositely disposed angled arms at the ends thereof arranged in said slot, one arm constituting a supporting member engaging the rear end of the slot and terminating in a laterally turned retaining lug, the other arm constituting a striker and being engageable with said keeper, said striker arm having a projectile engaging portion projecting upwardly at the side of the barrel and terminating in a laterally disposed finger piece overhanging the barrel.

4. A toy gun comprising a longitudinally slotted barrel provided with a grip and having a flat projectile seat disposed with its rear end in overlapping relation to said slot, the upper wall of said slot being transversely notched in spaced relation to the front end of the slot providing a keeper, and a combined trigger and impeller consisting of a coiled spring having oppositely disposed angled arms at the ends thereof arranged in said slot, one arm constituting a supporting member engaging the rear end of the slot, the other arm constituting a striker and being engageable with said keeper.

5. A toy gun comprising a longitudinally slotted barrel provided with a grip and with a projectile seat, a combined trigger and impeller consisting of a coiled spring having arms at the ends thereof, one of said arms being engaged with said barrel and constituting a supporting member, the other arm being angled and engaged in said slot and having a projectile engaging portion projecting upwardly at the side of the barrel terminating in a laterally disposed finger piece overhanging the barrel, and a keeper opening to said slot with which said impeller arm may be engaged.

6. A toy gun comprising a longitudinally slotted barrel provided with a grip and with a projectile seat, a combined trigger and impeller consisting of a coiled spring having arms at the ends thereof, one of said arms being engaged with said barrel and constituting a supporting member, the other arm being angled and engaged in said slot and having a projectile engaging portion, and a keeper opening to said slot with which said impeller arm may be engaged.

In witness whereof I have hereunto set my hand.

CYRUS C. SHIGLEY.