Jan. 19, 1932. H. WELCH 1,841,390

TOY PISTOL

Filed March 31, 1928

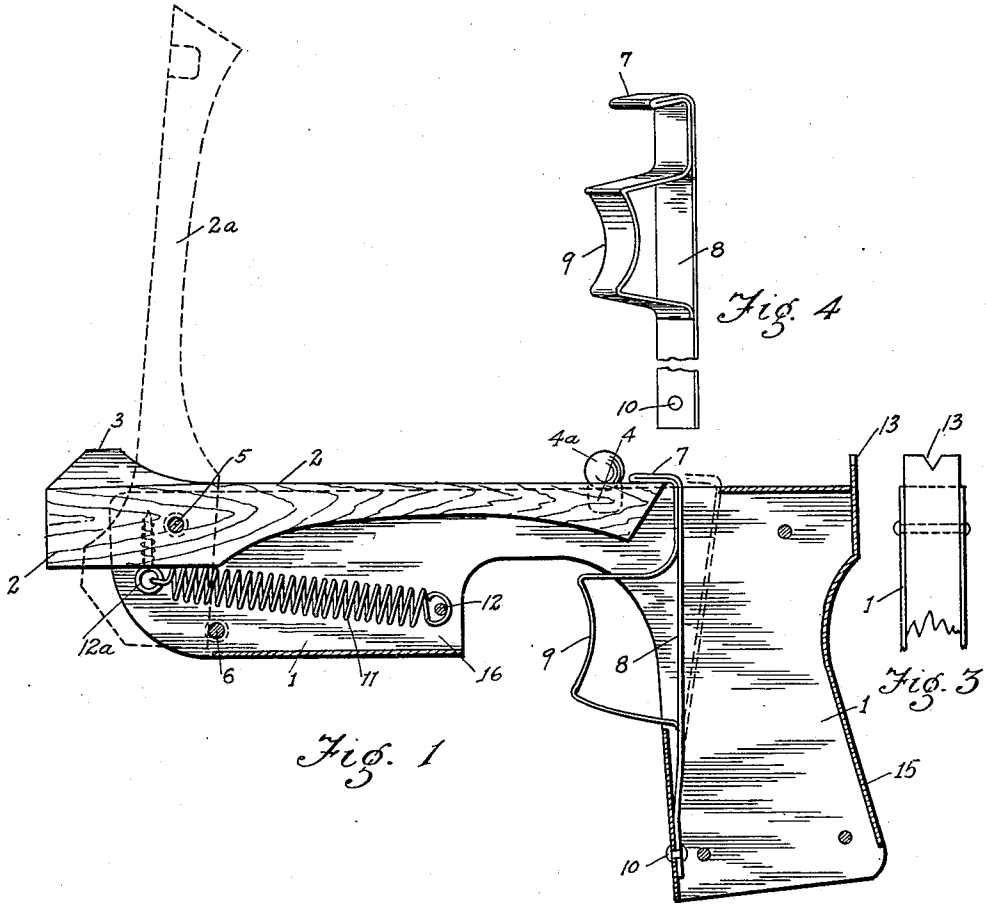


Fig. 1

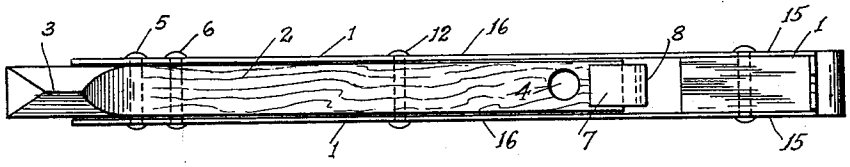


Fig. 2

Fig. 4

Fig. 3

INVENTOR.

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TOY PISTOL

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My invention relates to improvements in toy pistols in which a lever mounted in a frame resembling a pistol in appearance is employed to cast projectiles; and the objects of my improvement are: first to provide a sturdy and attractive frame or supporting member resembling a pistol in appearance; second to provide means for mounting a lever, from the arm of which projectiles may be cast, in said frame in such a manner that it rotates in a vertical plane and when depressed is concealed in the barrel of the pistol; third to provide means for rotating said lever by resilient means, through an arc of a circle and means for arresting the rotation of said lever at a certain point; fourth to provide means for holding said lever in a state of tension and releasing it at will by means of a trigger; fifth to provide sights by which the pistol may be aligned on the target.

I attain these objects by the mechanism illustrated in the accompanying drawings in which

Figure 1 is a sectional elevation of the entire device,

Figure 2 a top plan view,

Figure 3, an elevation showing the rear sight, and

Figure 4 a perspective view showing the trigger construction.

Similar numbers refer to similar parts throughout the several views.

The supporting member 1 preferably stamped from sheet metal into a form resembling a pistol has a downwardly extending part 15 resembling a pistol grip and forwardly extending parallel sides 16 somewhat resembling a pistol barrel. At the forward ends of these parallel sides they are connected by a pin 5, which serves as a stay or brace to impart rigidity to the sides and also serves as a pivot upon which lever 2 is mounted. This lever has a recess 4 in the end of its upper arm which serves as a holder for projectiles. The lower arm of the lever is connected at 12*a* by means of a screw eye or otherwise, with a resilient member 11, preferably a spring, which resilient member is attached at its other end to the supporting member by a pin 12 through the two sides of said supporting member. A pin or stay bolt 6 connects the two sides of the supporting member below and slightly to the rear of the pivot pin 5 forming a stop for the lower arm of the lever 2.

A trigger member which may be bent from a flat strip of metal as shown in Fig. 4 has a forwardly extending horizontal catch 7, a downwardly extending stock 8, connected to the grip of the supporting member at 10, and a forwardly extending finger piece 9. An upwardly projecting rib 3 on the lower arm of the lever 2 forms a front sight while a notch 13 in an elevated transverse plate on the rear of the grip 15 forms a rear sight.

In operation the upper arm of the lever is pressed downward until it is concealed between the parallel sides of the supporting member. This brings the end of the upper arm of the lever to a point where it is engaged and held by the catch of the trigger. The depression of the upper arm elevates the lower arm and draws the resilient member or spring into a state of tension. A projectile is then placed in the recess in the upper arm, the device is aligned on the target by use of the sights and the lever released by a pressure of the finger on the trigger member. The recoil of the spring rotates the lever upon its pivot in a vertical plane thus imparting velocity to the projectile on the end of the upper arm. The rotation of the lever is halted when the lower arm of the lever comes in contact with the stop between the sides of the supporting member and the projectile leaves the lever at a tangent to the arc described by the end of the lever in its motion.

Levers of either the first kind or the third kind may be used in this device and I do not wish to be confined to either. The lever may be actuated by elastic bands or by spiral springs or coil springs of either the compression or expansion variety and I do not wish to be confined to a particular type.

Having now fully described my invention, I claim:

1. A toy pistol comprising a handle resembling a pistol in outline, a trigger, fastened to said handle, a throwing lever pivoted in said handle, and sights, said sights consisting

of an elevated transverse plate with a notch therein on the rear of the handle and an elevated rib on the throwing lever above the pivot point thereof, said notch in said plate and said rib on said lever being in the plane of rotation of said lever and parallel to and slightly above the handle.

2. A toy pistol comprising a frame including a stock, a barrel extending from the upper end of said stock, a lever for projecting a missile pivotally mounted intermediate its ends to swing from the outer end of the barrel, a coiled spring, one end being pivotally connected to the lever beyond its pivotal point and its opposite end connected to the pistol frame, a trigger formed from spring metal secured at its lower end to the stock of the pistol frame, its free upper end being hooked for engaging the free end of the lever to hold the same in cocked relation to the pistol barrel, and a stop on the outer end of the barrel disposed below and to the rear of the lever pivot for arresting the throw of the lever when the trigger is operated.

3. A toy pistol comprising a frame including a stock, a barrel extending from the upper end of said stock, a lever for projecting a missile pivotally mounted to swing from the outer end of the barrel, pistol sights formed on the lever and pistol barrel, said sights being aligned when the lever is in a cocked position, a coiled spring one end being pivotally connected to the lever beyond its pivotal point and its opposite end being connected to the pistol frame, a trigger formed of spring metal secured to the stock of the pistol frame, its free upper end being hooked for engaging the free end of the lever to hold the same in cocked relation to the pistol barrel, and a stop on the outer end of the barrel for arresting the throw of the lever when the trigger is operated.

HERMAN WELCH.