

J. L. WILLIAMS.
Toy Pistol

No. 218,415.

Patented Aug. 12, 1879.

Fig. I

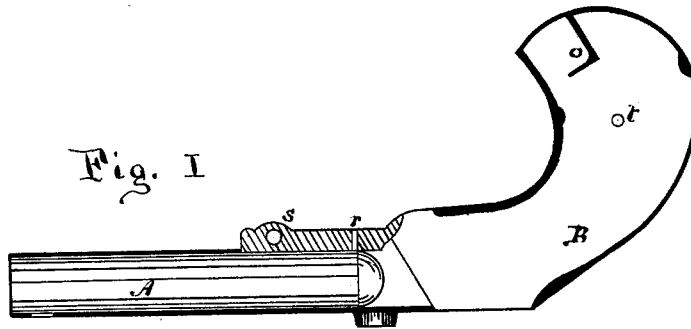
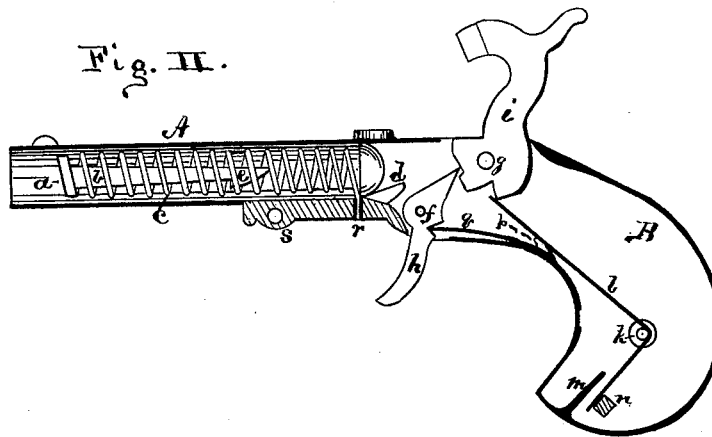


Fig. II.



Attest

Oliver Drake.

Charles H. Bell.

Inventor

John L. Williams.

By O. Drake, Atty.

UNITED STATES PATENT OFFICE.

JOHN L. WILLIAMS, OF EAST NEWARK, NEW JERSEY.

IMPROVEMENT IN TOY PISTOLS.

Specification forming part of Letters Patent No. **218,415**, dated August 12, 1879; application filed May 26, 1879.

To all whom it may concern:

Be it known that I, JOHN L. WILLIAMS, of East Newark, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Toy Pistols; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of toy pistols adapted to explode a percussion-cap, either of paper or other material, and from which the projectile is thrown by means of a spring concealed in the barrel; the object of which is to simplify and reduce the cost of construction, to give it the appearance of a pistol in which powder and balls are used, and to impart comparatively increased force in throwing the projectile.

The accompanying drawings illustrate the invention, in which the barrel and stock are represented in inverted longitudinal sections precisely as they are cast, ready to be secured together, the cock, trigger, and other portions of the internal mechanism being shown in Figure 2.

The invention consists, mainly, in the peculiar construction and combination of the plunger or disk *a*, shank *b*, and spring *c*, and in the arrangement of these parts in connection with and in relation to the other parts of the pistol, as will be hereinafter set forth.

In carrying out my invention I cast the barrel and stock A B in two equal parts, as indicated in the drawings, one of which, Fig. 2, is provided with a lug *d*, upon which the hook *e* catches when the spring *c* is depressed ready for firing. It is also provided with pivots *f* and *g*, upon which the trigger *h* and cock *i* are adjusted, and with a post, *k*, around which the spring *l* is bent, which forces the cock down upon the cap, and also serves as a rivet to fasten the two sides of the pistol to-

gether. It is also provided with lugs *m* and *n*, which, in connection with the angular lug *o*, Fig. 1, with which they coincide when the parts are secured together, serve to keep the end of the spring *l* in position. It is also provided with a lug, *p*, which serves as a resistance to a spring, *q*, which connects with the trigger *h*.

All the above-mentioned parts, it will be observed, constitute portions of the casting; and, in addition thereto, there are cast into the parts a groove, *r*, and perforations *s* and *t*, the former (groove *r*) serving to retain the spiral spring *c*, the projecting end of which is inserted therein in position, and prevents it from flying entirely out of the barrel when the hooked shank *b* is released from the lug *d*, the perforations *s* and *t* serving for the insertion of the rivets by means of which the two sides are secured together.

The construction and arrangement of the disk *a*, shank *b*, and spring *c* are peculiar, the disk being soldered or otherwise firmly secured to the outer end of the spring, and the hooked shank, which is considerably shorter than either the spring or the barrel, is secured to the disk and inclosed by the spring, but is free to move back and forth therein when being adjusted to the lug *d* or released therefrom.

It will also be observed that the disk is secured to the spring in an inclined or slanting position, so that when the ramrod comes in contact with the face of the disk in pushing back the spring the tendency is to depress the hook end of the shank in the direction of the lug *d*, and so insure its hooking thereon automatically, as will be readily understood.

The method of construction and the arrangement of the parts as herein described permit the projectile to be thrown, if desired, without operating the cock at all, and the length of the spring *c* and the shortness of the shank *b* give force to the throwing of the projectile, as will be manifest.

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

The combination, with the barrel *A*, cock *i*, and trigger *h*, disposed as shown, of the coiled spring *c*, disk *a*, secured at its forward end, short shank *b*, with hook *e*, and lug *d*, secured at the rear end of said spring, substantially as specified.

In testimony that I claim the foregoing I

have hereunto set my hand and seal this 20th day of May, 1879.

JOHN L. WILLIAMS. [L. S.]

Witnesses:

OLIVER DRAKE,
CHARLES H. PELL.