

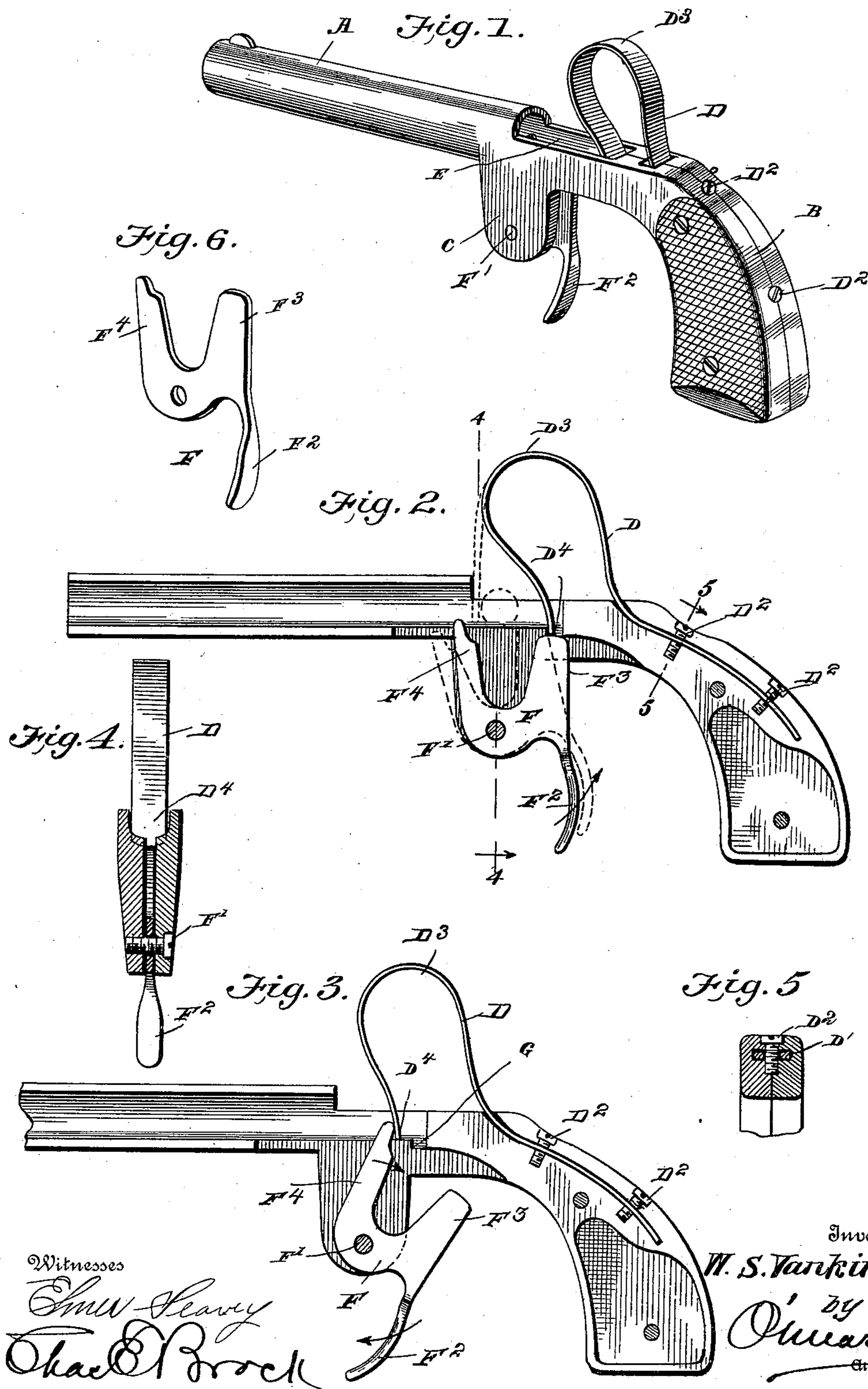
No. 620,384.

Patented Feb. 28, 1899.

W. S. VANKIRK.
TOY PISTOL.

(Application filed May 21, 1898.)

(No Model.)



Witnesses

Emu Leavy
Chas. Brock

Inventor

W. S. Vankirk.

by
Omarale
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM S. VANKIRK, OF MIDDLESBOROUGH, KENTUCKY.

TOY PISTOL.

SPECIFICATION forming part of Letters Patent No. 620,384, dated February 28, 1899.

Application filed May 21, 1898. Serial No. 681,328. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. VANKIRK, a citizen of the United States, residing at Middlesborough, in the county of Bell and State of Kentucky, have invented a new and useful Toy Pistol, of which the following is a specification.

My invention relates generally to toy pistols, the object being to provide an exceedingly cheap, simple, and efficient construction of toy pistol for throwing or discharging a marble, arrow, dart, or other projectile from the barrel of the pistol.

Another object of the invention is to provide for a combined trigger and loader, whereby the impelling-spring can be released by pulling the trigger toward the handle and set in the proper position for loading by moving the trigger in the opposite direction.

Another object of the invention is to so construct and arrange the operating-spring that when once set there is no danger of premature operation, and the safety of the toy is thereby assured.

With these various objects in view my invention consists, broadly, in a pistol comprising the barrel and handle portion, an operating-spring attached to the handle end having its free end located at the rear or breeched end of the barrel, a trigger provided with a setting-arm for forcing the spring to a contracted position, and a tripping-arm for releasing the said spring from its set position, whereby its elasticity can be exerted upon the marble, dart, or other projectile arranged or located in the breech of the barrel.

My invention consists also in certain details of construction and novelties of combination, all of which will be hereinafter fully described, and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a perspective view of the pistol constructed in accordance with my invention, the spring being shown in the position it occupies when the pistol is loaded. Fig. 2 is a vertical longitudinal section showing the tripping-arm ready to release the end of the spring, the dotted lines showing the position the parts assume after the spring is released. Fig. 3 is a vertical longitudinal section showing the operation of setting the spring. Fig. 4 is a transverse section on the

line 4 4 of Fig. 2. Fig. 5 is a section on the line 5 5 of Fig. 2. Fig. 6 is a detail perspective view of the trigger.

In carrying out my invention I preferably construct the pistol of two pieces of cast metal so shaped that when united they will provide a barrel A, a handle B, and a trigger-bearing C. While I prefer to construct the pistol proper of cast metal, it is obvious that it can be made of wood or any other desirable material. A spring D is secured at its rear end in the handle A, as most clearly shown in Figs. 2 and 5, the section of the handle being grooved, as shown at D', in order to receive the spring, and the screws D² being employed to prevent the dislocation of said spring. The spring is curved or bowed upwardly; as most clearly shown at D³ in Fig. 2, and the forward or free end D⁴ is made to rest in a recess or opening E, provided at the rear or breeched end of the barrel A. The trigger F is pivoted by means of a bolt F' in the trigger-bearing C and is formed with the usual depending pull or trigger proper, F². The trigger is also formed or provided with a tripping-arm F³, which is adapted to lift the end D⁴ of the spring from a notch G, produced at the rear end of the recess E, and this trigger F is also provided with a setting-arm F⁴, by means of which the end of the spring is forced back into the recess G, the operation of the setting-arm being clearly illustrated in Fig. 3, while the operation of the tripping-arm is clearly illustrated in Fig. 2.

In operation the pull of the trigger is thrown forward, thereby projecting the setting-arm rearwardly, carrying the free end of the spring back until it drops into the notch G. The spring being thus locked, a marble, dart, or other projectile is placed in the breech of the barrel or chamber E, as clearly shown in dotted lines in Fig. 2. In order to discharge the projectile, the trigger is pulled rearwardly, thereby causing the tripping-arm to come in contact with the end D⁴ of the spring and lift the same clear of the notch G. The end of the spring being freed will immediately fly forward, thereby forcing the projectile out of the barrel of the pistol. In order to reload the pistol, the trigger is simply projected forwardly again and the spring returned to its rear position in the notch G.

It will thus be seen that I provide an exceedingly cheap, simple, and efficient construction of toy pistol comprising only two parts, all of which can be quickly assembled 5 or put together, and, furthermore, it will be noticed that there is very little danger of any of the parts getting out of order. It will also be noticed that I provide a toy pistol capable of successfully carrying out all of the objects 10 for which it is intended.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. A toy pistol comprising the barrel and 15 handle portions, a spring attached to the handle portion, and having its free end operating adjacently to the breech of the barrel, and a trigger provided with a tripping-arm for releasing the said spring and with a setting-arm for retracting the said spring substantially as shown and described. 20

2. A toy pistol comprising the barrel and handle portions, composed of two pieces, a spring secured at its rear end between the

sections of the handle portion, and having its 25 forward end operating adjacently to the breech end of the barrel, said breech portion having a notch adapted to be engaged by the free end of the spring, and a trigger provided with tripping and setting arms, substantially 30 as shown and described.

3. A toy pistol composed of two sections and comprising the barrel, the handle, and the trigger-bearing, a spring secured between the 35 sections of the handle, the rear end of the barrel being cut away to provide an opening, or chamber, in which the free end of the spring operates, said chamber having a notch at its rear end adapted to be engaged by the 40 free end of the spring, and a trigger pivoted in the trigger-bearing and provided with the pull, the tripping-arm, and the setting-arm, all arranged and adapted to operate, substantially as shown and described.

W. S. VANKIRK.

Witnesses:

P. H. UPINGTON,
A. A. LAWSON.