2 Sheets—Sheet 1.

H. M. WEAVER.

Toy-Pistol.

No. 212,826. Patented Mar. 4, 1879.

Fig. 1.

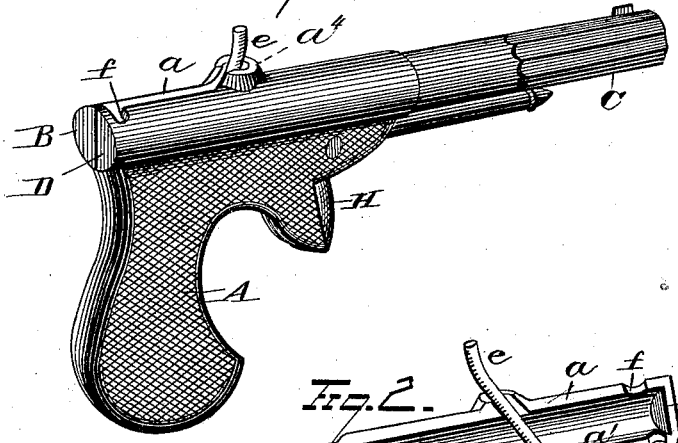
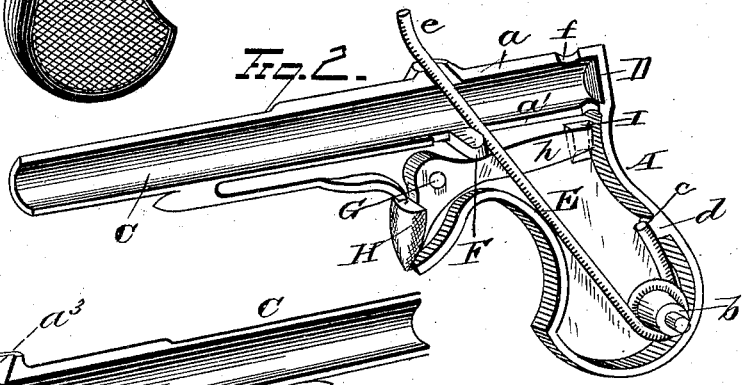


Fig. 2.



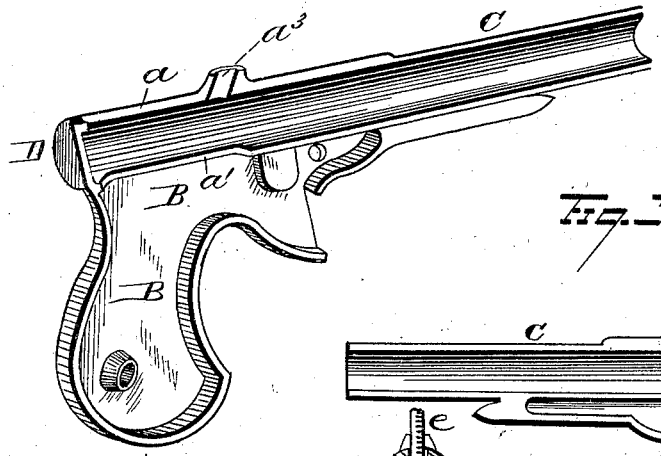


Fig. 3.

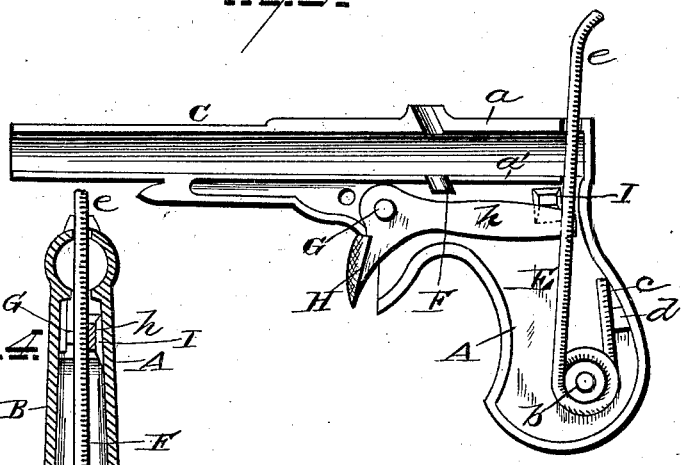
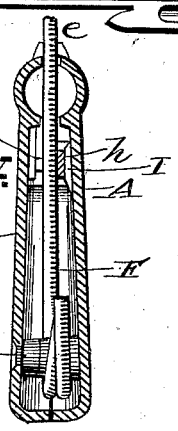


Fig. 4.



WITNESSES

E. F. Nottingham

F. O. McCleary

INVENTOR

H. M. Weaver.

By H. A. Seymour.

ATTORNEY.

2 Sheets—Sheet 2.

H. M. WEAVER.

Toy-Pistol.

No. 212,826. Patented Mar. 4, 1879.

Fig. 5.

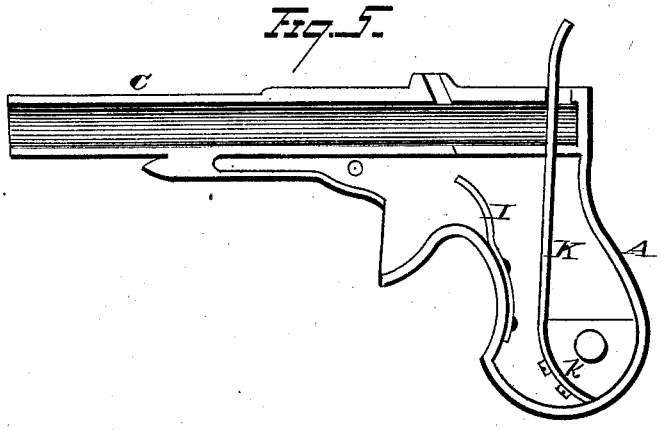
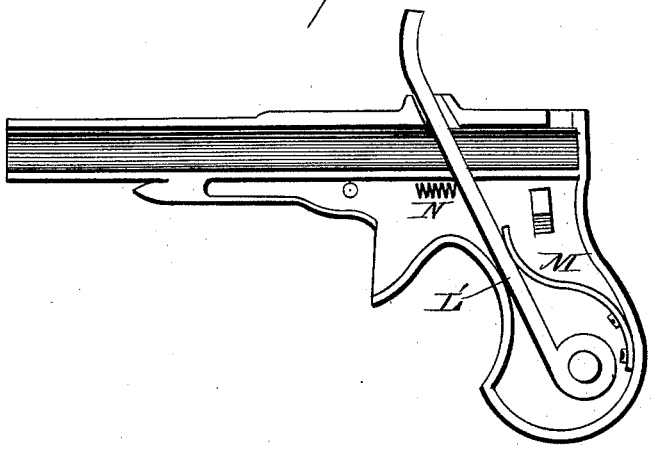


Fig. 6.



WITNESSES

E. L. Nottingham

F. O. McCleary

INVENTOR

H. M. Weaver.

By H. A. Seymour.

ATTORNEY

UNITED STATES PATENT OFFICE.

HENRY M. WEAVER, OF MANSFIELD, OHIO.

IMPROVEMENT IN TOY PISTOLS.

Specification forming part of Letters Patent No. **212,826**, dated March 4, 1879; application filed December 31, 1878.

To all whom it may concern:

Be it known that I, HENRY M. WEAVER, of Mansfield, in the county of Richland and State of Ohio, 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in toy pistols, the object being to provide a toy pistol which shall be simple and durable in construction, of small initial cost, and effective in use.

My invention consists, first, in a toy pistol, in the combination, with the barrel constructed with a slot extending through the rear end thereof, of a spring-pressed arm, one end of which is secured within the lower end of the stock, while the opposite end extends through the slot in the barrel and projects above the same.

My invention further consists in the combination, with the barrel of a toy pistol, the same constructed with a slot extending through the rear end thereof, of a spring, the lower end of which is attached to a stud located in the lower end of the stock, while the upper end extends through the slotted end of the barrel and projects from the opposite side thereof.

My invention further consists in the combination, with the barrel of a toy pistol, having a slot extending through the rear end thereof, and a spring, the lower end of which is secured within the lower end of the stock, and the upper end adapted to extend through the slotted end of the barrel, of a trigger provided with a vertically and laterally moving arm, for imparting a lateral movement to the spring and releasing the same.

My invention further consists in the several details of construction and combinations of parts, as will hereinafter be described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is view, in perspective, of my improved toy pistol. Fig. 2 represents views, in perspective, of the inner sides of the two halves of the pistol, and the mechanism for impelling the missile arranged therein. Fig. 3 represents the position of the spring when the pistol is cocked and ready for firing. Fig. 4 is a vertical transverse section through the stock. Figs. 5 and 6 are modifications.

A and B represent the two sections of which the pistol is made, and which are formed of malleable iron, sheet metal, or any desired material. C is the barrel, and D the stock, the rear portion of the latter being joined to the rear end of the barrel, whereby the latter is made to extend the entire length of the pistol. The rear end of barrel C is provided with a slot, *a*, which extends through its upper side, and a slot, a^1, diametrically opposite the former, through the lower side thereof. E is a spring, the lower end of which is coiled around a stud, *b*, cast solid with section A of the pistol, and the projecting end *c* arranged to bear on the rear portion of the stock at *d*. The opposite end or arm *e* of the spring projects upwardly through the slots *a* a^1 a sufficient distance, that it may be readily retracted by the finger. The upper slot, *a*, is provided with a lateral slot or notch, *f*, at its rear end, whereby the arm *e* of the spring, being retracted, will be forced into the notch *f*, and there retained until released by mechanism hereinafter explained. At the forward end of slot *a* is formed a cap-holder, a^3, which consists of a pocket formed at right angles to slot *a*, and of sufficient dimensions to readily admit a wafer-cap.

The cap-holder is provided with an upwardly-projecting flange, a^4, to retain the wafer in place, and also to shield the hand of the person firing the pistol.

F is a stop or buffer, located at the forward end of slot a^1, and in line with the stud *b* and forward end of the upper slot, *a*. This buffer consists in a lug cast solid with one of the sections of the pistol, and serves to receive the force of the arm *e* of the spring at a point between its stud and extreme upper end. If the blows of the spring were continually borne by the upper end thereof it would soon become bent and its strength impaired, and hence, by causing it to strike in a buffer located below the barrel, the form of the spring is preserved.

It will be observed that the forward portion of the stock is made to serve as a bearing for the spring between the buffer F and stud *b*.

G is a stud cast solid with one of the sections of the pistol, and which serves as a pivot for the trigger H, which is loosely journaled

thereon. Trigger H is provided with an arm, *h*, preferably cast solid therewith, which extends rearwardly into the stock beneath the barrel of the pistol. I is a cam-faced lug, formed solid with one section of the pistol, and serves to impart a lateral movement to the trigger-arm *h* when the latter is raised. The lateral movement of the trigger-arm serves to force the arm *e* of the spring laterally out of its locking-notch *f*, and allow it to fly forward and eject the missile from the pistol.

Instead of employing a spring and buffer of the construction heretofore described, the parts may be varied in form, construction, and arrangement, as illustrated in Figs. 5 and 6. In Fig. 5 a flat spring, K, is used in lieu of the wire spring E, the lower end of spring K being attached to a shoulder, *k*, located in the lower end of the stock of the pistol, and the upper end extending through slots in the rear end of the barrel, as hereinbefore explained. L is a spring-buffer attached to the forward portion of the stock, and receives the force of spring K.

If desired, leather or other yielding material may be interposed between the stock and spring to receive the blows of the latter.

Fig. 6 represents still another modification embodying my invention. In this latter form of construction a rigid arm, L′, is pivoted within the lower end of the pistol-stock, and is actuated by a spring, M, attached to the rear portion of the stock. N is a buffer, consisting of a spiral spring located to receive the blows of the arm L′ when forced forward by its actuating-spring.

From the foregoing it is evident that many slight changes in the construction and arrangement of the several parts of the pistol may be resorted to without departing from the spirit of my invention, and hence I do not limit myself to the exact construction shown and described—as, for instance, the stud to which the lower end of the spring is secured may be made separate, and riveted to the opposite shells of the pistol; but the preferred and simple method is to cast it solid with one of the sections.

The spring may be made of brass or steel, and of any desired form.

A pistol constructed in accordance with my invention is of few parts, which cannot become displaced, and hardly possible to become injured or broken, is of small initial cost, and very effective in actual use. The spring has a long throw, and the missile, whether a ball or stick, is seated in direct contact with the spring when in its retracted position, and when the spring is released the missile is impelled from the barrel with great velocity and force.

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

1. In a toy pistol, the combination, with a hollow stock and a barrel extending over the entire length of the stock, said barrel provided with slots in its rear end, extending through the upper and lower sides of the same, of a spring-pressed arm, one end of which is secured within the lower end of the hollow stock, while its free end extends through the slotted end of the barrel and projects above the same, substantially as set forth.

2. In a toy pistol, the combination with a hollow stock and a barrel extending over the entire length of the stock, said barrel provided with slots in its rear end, extending through the upper and lower sides thereof, of a spring-pressed arm, made in a single piece, one end of which is secured within the lower end of the hollow stock, while its free end extends through the slotted end of the barrel and projects above the same, substantially as set forth.

3. The combination, with the barrel having a slot formed through the rear end thereof, and a spring-actuated arm, the lower end of which is secured within the stock, and the upper end extends through the slotted end of the barrel, of a trigger provided with an arm adapted to be moved both vertically and laterally, substantially as set forth.

4. The combination, with a barrel having a slot formed through the rear end thereof, the upper wall of said slot provided with a locking-notch, of a spring-pressed arm, the lower end being secured within the stock of the pistol, and the upper end extending through the slotted end of the pistol, and adapted to be retained in a locked position within the locking-notch in the barrel, substantially as set forth.

5. In a toy pistol, the combination, with a hollow stock and a barrel extending over the entire length of the stock, said barrel provided with slots in its rear end, extending through the upper and lower sides thereof, of a spring-pressed arm, one end of which is secured within the lower end of the hollow stock, and its free end extending through the slotted end of the barrel and projecting above the same, and a rigid or yielding buffer located below the barrel to receive the blow of the spring-pressed arm, substantially as set forth.

6. The combination, with a slotted barrel and a spring-actuated arm, of a trigger-arm and a cam-faced lug, substantially as set forth.

7. A cam-faced lug cast solid with the shell of the pistol, and adapted to impart a lateral movement to the trigger-arm, substantially as set forth.

8. In a toy pistol, the combination, with the barrel provided with an elongated slot, which connects with a cap-holder, of a spring-actuated arm, which is adapted to move freely within said elongated slot in the barrel, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of December, 1878.

HENRY M. WEAVER.

Witnesses:

CHAS. F. THAYER,

ROBERT CLAUS.