

C. L. WALL.
Toy Pistols.

No. 152,262.

Patented June 23, 1874.

FIG. I.

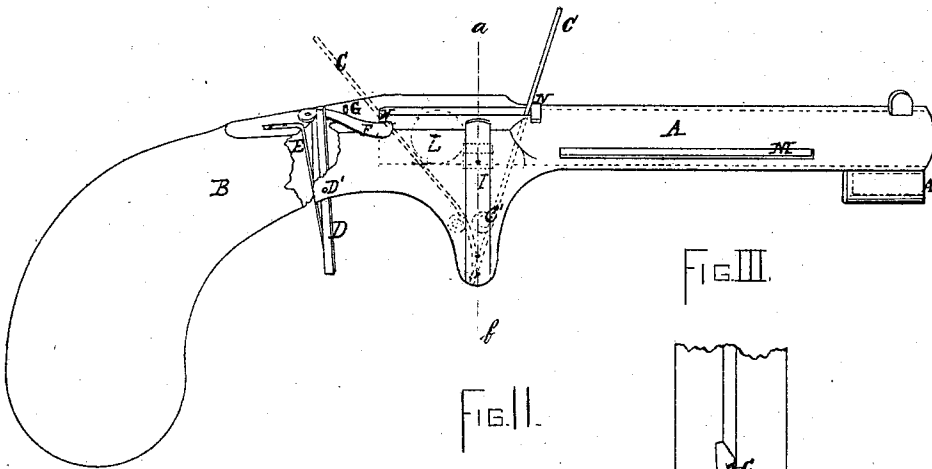


FIG. III.

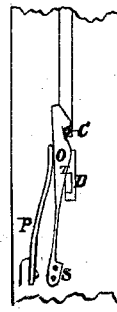
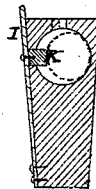


FIG. II.



Witnesses.
Wm. Wiley.
Albert E. Zacheus.

Inventor, Charles L. Wall
by George I. Suckley
his Atty.

UNITED STATES PATENT OFFICE.

CHARLES L. WALL, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN TOY PISTOLS.

Specification forming part of Letters Patent No. 152,262, dated June 23, 1874; application filed March 4, 1874.

To all whom it may concern:

Be it known that I, CHARLES L. WALL, of the city of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Toy Pistols or Toy Guns; and I do hereby declare the following to be a clear and exact description of the same, reference being had to the annexed drawings making part thereof.

The nature of my invention is fully set forth in the following schedule and claims.

To enable others skilled in the art to make and use my invention, I will describe its construction and mode of operation.

In the drawings, Figure 1 is a perspective view of my invention, showing part broken away, to expose the method of construction; Fig. 2, a detached cross-sectional view on the line *a b* of Fig. 1, showing the arrangement of the side spring, and projection through the side of the barrel. Fig. 3 is a detached plan view, showing a catch to retain the lever or hammer, dispensing with the recess shown in Fig. 1.

A is the pistol-barrel; A', the fire cracker barrel or receptacle; B, the stock; C, the spring lever or hammer; D, the spring-trigger, pivoted at D'; E, the spring, which forces the trigger back to position after each discharge. F is a trip, pivoted at one end, for throwing spring-hammer C out of the recess H, and is kept in position by pin G. I is a side spring, shown in detail in Fig. 2, having rigidly attached to it the piece K, which projects into the barrel, and holds the charge in place by the pressure of the spring I. The spring-hammer is coiled one turn at C' to give it more elasticity. L is the charge—a marble or rubber ball. M is a slot along the side of the barrel to admit of or facilitate the removal of a charge which is found to be too large, as where a marble is partly introduced which is too large for the bore. N is a rubber or other soft cushion, to deaden the blow of spring-hammer C.

The operation is as follows, viz.: The lever or hammer C is drawn back and pressed sideways into recess H, which detains it. The ball is then inserted and rammed home with a rod, thus forcing back projection K, which then impinges with a gentle pressure upon the

side of the ball, and holds it in place. The spring I is made weak that the pressure on the ball may beslight. A ramrod may be dispensed with, as by drawing back spring I the ball may be dropped into its place, and spring I, on being released, holds it. The pistol is now ready for discharging, which is accomplished by pressing on the trigger D, which then acts against the trip F and pushes it sideways. This action throws the hammer C out of recess H, and the force of the spring of the lever or hammer throws the lever or hammer forward, striking the ball, and shoots said ball out of the barrel. In the form of catch O (shown in Fig. 3) the lever or hammer C is drawn back against the beveled end of catch O, and is held by the recess in the catch, as shown in Fig. 3. The trigger D, being pulled from below, forces the catch back, releasing the hammer C. If the beveled surface of the catch O, against which the trigger D presses, is made very abrupt, the recoil of the spring-catch will force the trigger back to place, without the aid of a spring, E, on said trigger D, by means of the last-named beveled edge, marked T.

I prefer to make my pistol of cast-iron, and all the parts of iron or steel, though brass and any other suitable metal, papier-mache, wood, or hard rubber may be employed.

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

1. The combination of spring I, knob K, and spring-lever C, constructed and arranged substantially as described.
2. The combination of trigger D, trip F, spring-lever C, and recess H, arranged to operate substantially as described.
3. The combination of spring-catch O and trigger D, constructed and arranged substantially as described.
4. The combination of a fire-cracker barrel or receptacle, A', with the barrel of a toy pistol, to shoot or discharge missiles, substantially as described.

CHARLES L. WALL.

Witnesses:

ALBERT E. ZACHERLE,
ANDREW ZANE, Jr.