

Patented Nov. 19, 1867.



J R Snow

R. H. Eddy

UNITED STATES PATENT OFFICE.

JOHN HALL, OF WATERTOWN, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND CHARLES S. LOCKE, OF SAME PLACE.

TOY PISTOL.

Specification forming part of Letters Patent No. **71,162**, dated November 19, 1867.

To all whom it may concern:

Be it known that I, JOHN HALL, of Watertown, in the county of Middlesex and State of Massachusetts, have invented a Repeating Toy Pistol; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a longitudinal section of it; Fig. 2, a top view of its piston-retracting mechanism.

In such drawings, A denotes the stock of the pistol as provided with two barrels, *a b*, one of which is arranged directly over and parallel with the other, and at its rear end has a passage, *c*, which leads from it into the lower barrel. The upper barrel is what I term the "magazine," as it is to contain the series of pellets or balls to be successively introduced into and discharged from the barrel *b*. Within the said barrel *b* is a cylinder or piston, *d*, and a helical spring, *e*, they being arranged together and in the barrel in manner as shown in Fig. 1.

Under the piston is a catch-lever, *f*, formed as shown in Fig. 1, and having its fulcrum *g* projecting from one side of a slide, *h*, from which an annular trigger, *i*, extends, such catch-lever, slide, and trigger being so applied to the stock as to be capable of being moved longitudinally back and forth therein, the stock being recessed to receive them.

In advance of the catch-lever is a spring, *k*, which serves to throw the front arm or catch of the lever upward into engagement with the front end of the piston. The rear arm of the catch-lever is turned up or formed cam-shaped, as shown at *l*, to engage with a stationary cam or inclined plane, *m*, formed in the stock, the said two parts *l m* being to effect the discharge of the catch from the piston at the termination of its retraction. By sliding the trigger and its slide forward and backward the catch will be made to take upon the piston to draw it against the spring to contract such spring and

finally to be discharged from the piston, so as to permit the elastic force of the spring to smartly throw the piston forward.

A pin, *n*, going through or projecting from the piston, and a slide or groove, *o*, made in the stock, serve to arrest the advance of the piston at a proper period of time.

If the magazine be supplied with a series of beans or balls, and its mouth be afterward plugged or corked, they may be caused to be successively dropped into the barrel and discharged therefrom, for during each retraction of the piston it will uncover the bottom of the passage *c* so as to allow the rearmost one of the beans or balls to fall from the magazine into the barrel. The discharge of the piston against such ball by the force of the spring will expel the ball from the barrel.

I claim—

1. The repeating toy pistol made substantially as specified—viz., with the magazine and barrel, the opening from one into the other, the spring and piston, and mechanism for retracting the piston and discharging it, the whole being arranged in manner and so as to operate substantially as described.

2. The combination and arrangement of the catch-lever *f*, the slider *h*, the trigger *i*, the spring *k*, and the cam or inclined plane *m*, the whole being as specified and for effecting the retraction of the piston, contraction of the spring, and the discharge of the piston in manner as described.

3. The combination of the stop-pin and the slot or groove *o*, or their mechanical equivalent or equivalents, with the piston, its spring, the magazine, the barrel, and mechanism for effecting the retraction and discharge of the piston in manner as specified.

JOHN HALL.

Witnesses:

R. H. EDDY,
F. P. HALE, Jr.