(No Model.)

L. STOCKMAN.

TOY GUN.

No. 299,436. Patented May 27, 1884.

Fig. 1.

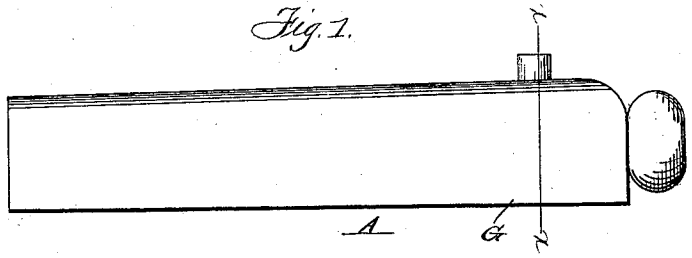


Fig. 2.

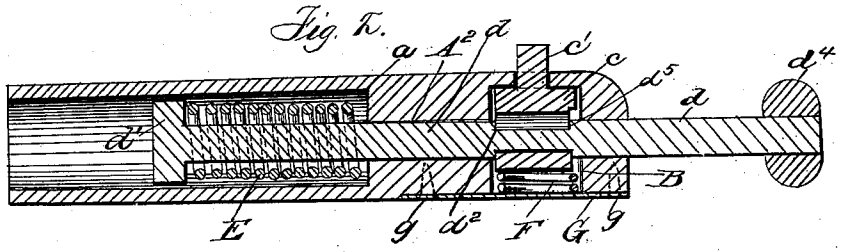


Fig 3

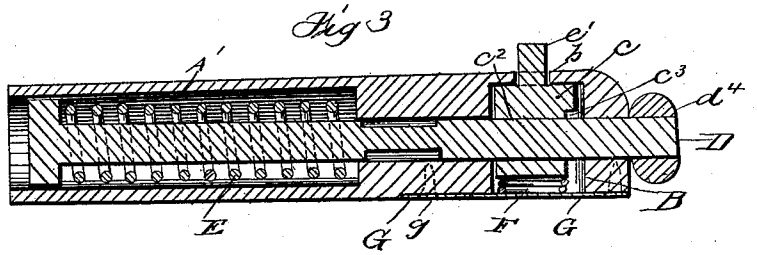


Fig 4.

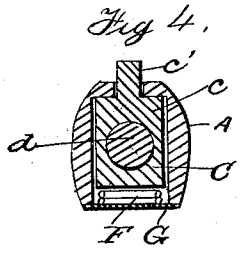


Fig. 6.

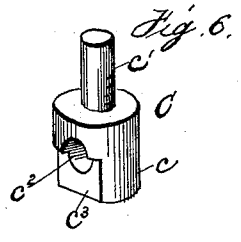
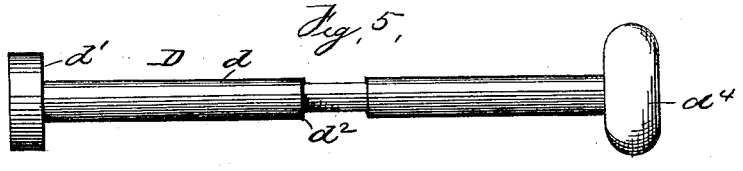


Fig. 5.



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UNITED STATES PATENT OFFICE.

LAWRANCE STOCKMAN, OF PHILADELPHIA, PENNSYLVANIA.

TOY GUN.

SPECIFICATION forming part of Letters Patent No. 299,436, dated May 27, 1884.

Application filed March 18, 1884. (No model.)

To all whom it may concern.

Be it known that I, LAWRANCE STOCKMAN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Toy Guns; and I do 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 the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to toy guns; and the novelty consists in the construction, arrangement, and combination of parts, substantially as hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a gun embodying my improvements. Fig. 2 is a longitudinal section of Fig. 1 with the plunger protracted. Fig. 3 is a similar longitudinal section showing the plunger shot. Fig. 4 is a transverse section on the line *x x* of Fig. 1. Fig. 5 is a detail view of the plunger detached from the gun. Fig. 6 is a detail view of the trigger-block.

Similar letters of reference in the several drawings denote like parts.

Referring to the drawings, A represents the gun, having the bore A′, of large diameter, extending nearly the entire length of the gun.

A^2 represents an axial bore, of smaller diameter than the bore A′, extending from the inner end, *a*, of the latter to and opening through the butt of the gun. B represents a bore or circular aperture formed near the rear end thereof, and extending from the bottom nearly to the top at right angles to and crossing the bore A^2. The aperture B has the same diameter as the main bore A′, and is provided at its top with a small aperture, *b*, that opens through the top of the gun.

C represents a trigger-block, the body *c* of which fits into the aperture B.

c′ represents an extension formed on the body *c* and passing through the aperture *b*. The body *c* of the block C is provided with a transverse aperture or bore, c^2, and cut-away portion c^3, for a purpose hereinafter described.

D represents a plunger which operates within the bores A′ A^2, and consists of a rod, *d*, having a diameter equal to the bore A^2. The forward end of the plunger is provided with a short plug or block, *d′*, having a diameter equal to the bore A^2. The plunger is also provided upon its rear end with a button, d^4, and at or near its middle with a grooved portion, d^2, for a purpose hereinafter described. When the plunger is in the gun, the rod *d* passes through the bore A^2 and aperture c^2 in the body *c* of the block C, and is surrounded by a coiled spring, E, which bears against the block *d′* of the rod, and shoulder *a* of the bore A′, respectively. The function of said spring E is to keep the rod projected to its furthest extent. When the rod D is drawn backward by the button d^4 on the rear end thereof, the spring is compressed, as will be readily understood.

F represents a short coiled spring placed between the lower end of the block C and a plate, G, which is secured by screws *g* to the lower surface of the gun. The block is thus kept under spring-pressure in an upward direction, and when the rod D is retracted by means of the button d^4 forces said block C upward and into the annular groove d^2, surrounding said rod, the rear shoulder, d^5, of said groove bearing against the flattened portion c^3 of the block C.

The operation of my invention is as follows: The rod D being retracted and held by the block C, as described, a marble, dart, or other similar projectile is placed in the bore A′ of the gun against the block *d′*. Downward pressure is applied to the plug C and the rod D released therefrom. The spring E now forces the rod forward and expels the projectile with considerable force from the muzzle of the gun.

I deem it important that the trigger-block is housed within the stock of the gun by the plate G, and that such plate forms a bearing for the spring F. The plunger passes through the trigger-block, and has a bearing upon the flat face c^3 of the extension *c* thereof when retracted, no matter which surface is uppermost. The plunger may be rotated to any extent without interfering with the operation of the parts, as the shoulder d^5 is always in position to engage the trigger-block. The trigger-block being hung upon the plunger insures the proper

relation of the parts, and that they will operate until the parts are worn out.

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

1. In a toy gun substantially as described, a spring-plunger having an annular shoulder and working loosely through a trigger-block, combined with trigger-block, as C, having flat face and transverse passage, and the whole adapted to serve as set forth.

2. In combination with the spring-plunger, the pistol-body having transverse opening B *b*, the trigger-block, as described, trigger-spring F, and plate G, forming one side of the trigger-chamber, and affording a bearing for the spring, as set forth.

3. In a toy pistol, as described, the combination of the body A, as described, with the plunger, the trigger-block, and actuating-springs, the plunger operating loosely in and through an aperture formed in such block, as set forth.

4. In a toy pistol, the combination of the following-named elements, to wit: a body, A, having axial bores A′ A^2 and transverse apertures B *b*, plunger D, having a rod, *d*, provided with annular groove d^2, plug *d*′, button d^1, normally held in a projected position by spring E, plug C, having body *e*, extension e^2, spring F, and plate G, arranged and combined substantially as described, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LAWRANCE STOCKMAN.

Witnesses:
EDWARD C. RYER,
A. D. RUSSELL CRAWFORD.