

A. I. LENHART.

Improvement in Toy Guns.

No. 123,268.

Patented Jan. 30, 1872.

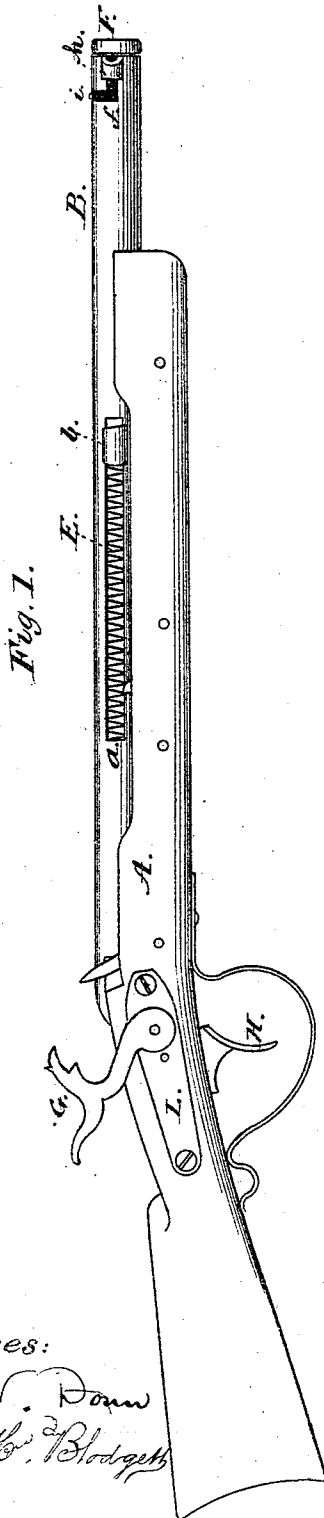
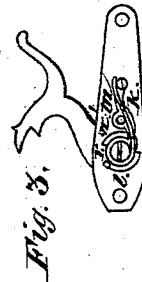
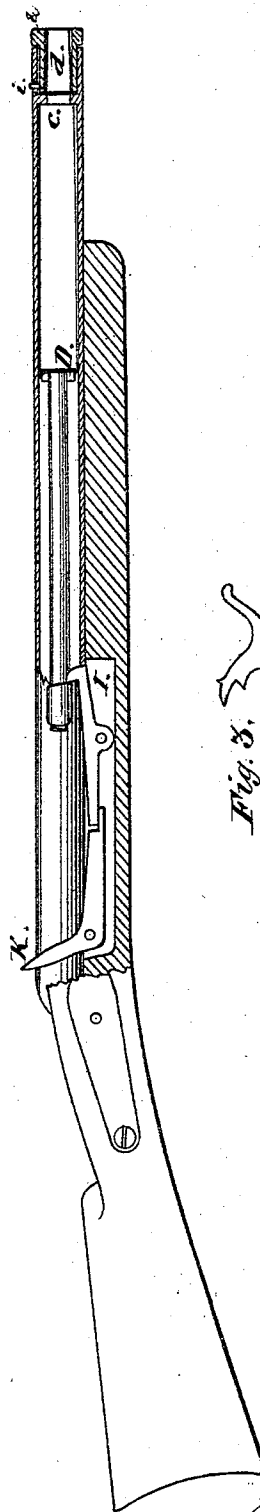


Fig. 2.



Witnesses:

Edw. W. Down
J. B. Blodgett

Inventor:

Adam I. Lenhart

Per
Henry C. Taylor
Atty.

UNITED STATES PATENT OFFICE.

ADAM I. LENHART, OF NEW BRUNSWICK, NEW JERSEY, ASSIGNOR OF ONE-HALF HIS RIGHT TO DANIEL B. FELTER, OF SAME PLACE.

IMPROVEMENT IN TOY GUNS.

Specification forming part of Letters Patent No. 123,268, dated January 30, 1872.

To all whom it may concern:

Be it known that I, ADAM I. LENHART, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Toy Guns; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon which form a part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2 is a partial longitudinal section; and Fig. 3 is a detail of the lock used to throw the hammer.

Similar letters denote like parts in the several figures.

The object of this invention is to provide an amusing and harmless toy gun, so constructed as to project pellets at ordinary pistol range with accuracy, at a trifling expense; and it consists in the construction and novel arrangement of various parts hereinafter described.

In the accompanying drawing, the letter A designates the stock of the gun. B designates the barrel, continued beyond the stock. This barrel is slotted longitudinally at *a* for the stud *b* of the piston-rod, and is provided with an internal flanch, *c*, a short distance from the end or muzzle. D represents the piston-rod, whose throw is regulated by the length of the slot *a*. E represents a coiled spring, placed in rear of the piston-rod, and serving by its elasticity to force the piston-rod toward the end of the barrel. This spring should be very strong on account of the form of the barrel, which is designed to be somewhat tapering toward the muzzle, or to have a conical bore. F represents a detachable muzzle, consisting of a cylinder, *d*, and flanch, *e*, and designed to fit within the end of the barrel proper, in the manner shown at Fig. 2 of the drawing. This cylinder is made of thin metal, and is provided with a stud, *i*, by means of which the detachable muzzle is secured to the barrel, which is provided with an angular slot, *f*, for this purpose. In order that the connection may be secure the transverse portion of the slot *f* is formed somewhat obliquely, so that the angle of the slot shall be a little obtuse, the effect being to keep the muzzle-piece securely in place and to press it firmly up against the internal flange of the

barrel. The projection *i*, when it is thrown around, constitutes the sight of the gun. Usually I provide a small convex bridge, *h*, which connects the muzzle end of the angular slot, keeping it in form, and at the same time permitting the passage of the projection *i*. G represents the hammer; H, the trigger; I, the pivoted catch, which retains the stud of the piston-rod; K, a small trip, which disengages the catch-lever I when the hammer falls on its beveled end; L, the lock-plate; *k*, the lock-spring, wound around and secured to the spindle of the tumbler; *l*, the tumbler, secured to the hammer, and provided with a notch for the passage of the tail of the spring; *m*, the sear, pivoted at *n'*, and provided with a stud, *r*, the spring *k* passing under the pivot and over the stud, as illustrated in Fig. 3 of the drawing. It is obvious that the tension of the spring is increased when the end of the sear is thrown up by the trigger.

The operation of this gun is as follows: The detachable muzzle is loaded by placing the pellet in the small or inner end. The piston having been retracted and the hammer thrown up, the muzzle-piece with its pellet is inserted in place. A touch of the finger upon the trigger will release the piston-rod, and the pellet will be driven out with great force, consequent upon the strength of the spring and the tapering form of the barrel. Sometimes I place a small rubber ring or cushion upon the outer face of the flanch *e*, to aid in preventing the compressed air from escaping.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a barrel having an angular slot, *f*, of a detachable muzzle-piece having a stud, *i*, substantially as specified.

2. The toy gun described, consisting of the tapering barrel B, muzzle-piece F, piston D, spring E, catch I, trip K, and lock, substantially as specified.

3. The combination, with the barrel having the internal flanch *c* and the obtuse angled slot *f*, of the detachable muzzle F, provided with the projection *i*, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

A. I. LENHART.

Witnesses:

PETER W. CROZEE,
D. B. FELTER.