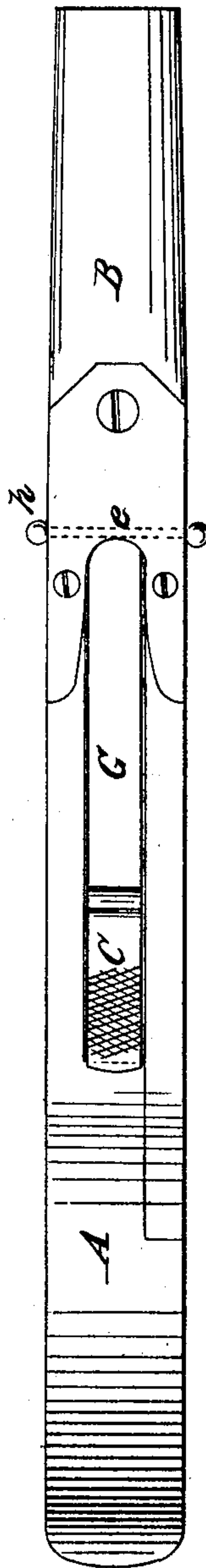
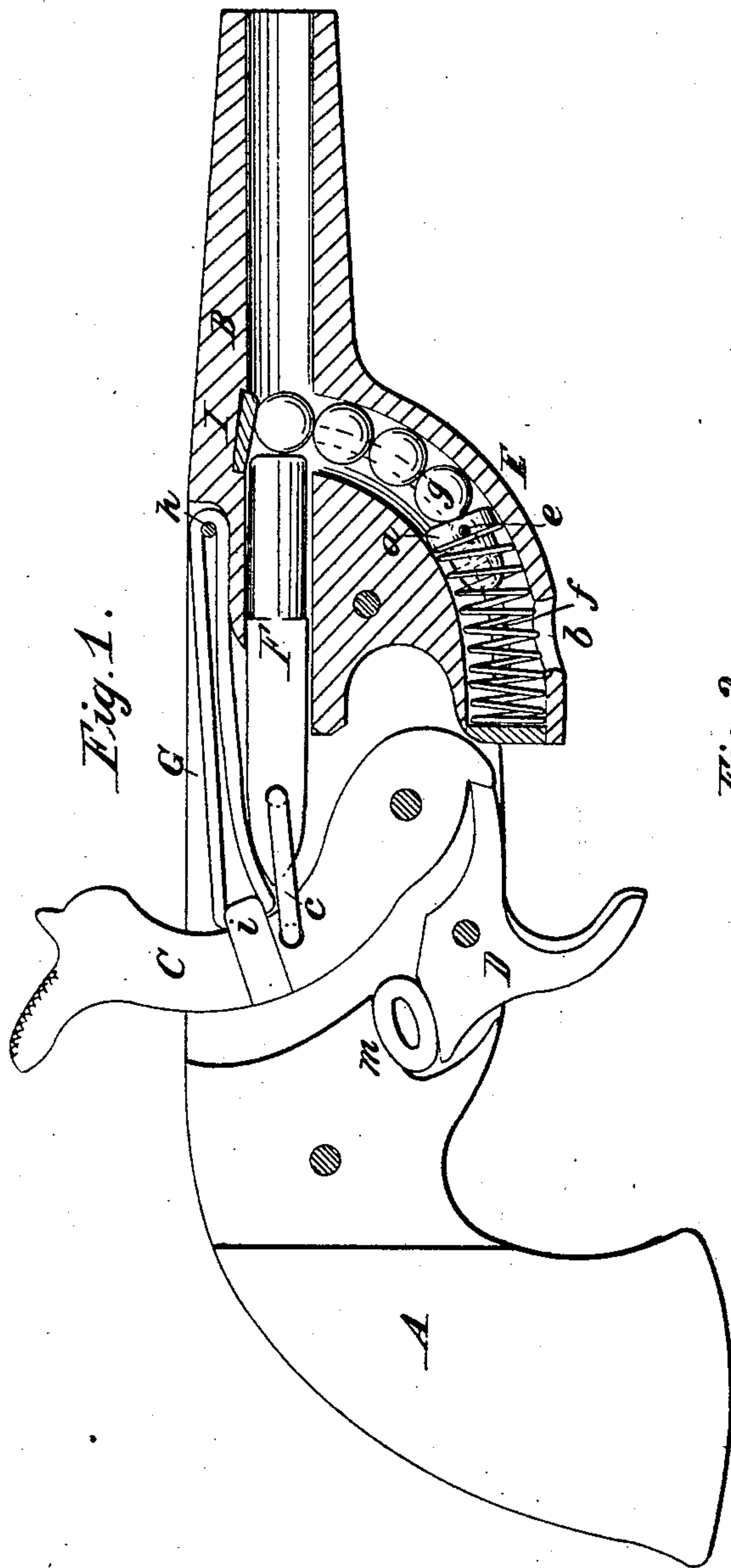


E. & A. BUCKMAN.
TOY REPEATING PISTOL.

No. 85,638.

Patented Jan. 5, 1869.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD BUCKMAN AND ALEXANDER BUCKMAN, OF EAST GREENBUSH,
NEW YORK.

TOY REPEATING-PISTOL.

Specification forming part of Letters Patent No. 55,638, dated January 5, 1869.

To all whom it may concern:

Be it known that we, EDWARD BUCKMAN and ALEXANDER BUCKMAN, of East Greenbush, in the county of Rensselaer and State of New York, have invented a new and Improved Repeating Toy Gun and Pistol; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a sectional side view of a repeating toy pistol constructed according to our improvement, and Fig. 2 a plan view of the same.

Similar letters of reference indicate corresponding parts in both figures.

This invention consists in the novel arrangement of a magazine and plunger in relation to each other and to the lock, stock, and barrel of a toy gun or pistol, whereby pease, pellets, or other projectiles may be fed to and ejected from the barrel by the cocking and letting off of the hammer.

In order that others may understand the construction and operation of our invention, we will proceed to describe it with reference to the drawings.

A is the stock, B the barrel, C the hammer, and D the trigger, of a toy pistol, all constructed and arranged substantially after the manner of such parts commonly used upon fire-arms.

Arranged upon the under side of the rear portion of the barrel B, and so as to communicate at its upper extremity with the bore thereof, is a magazine or bullet-receptacle, E, of a curved form, and having an opening, b, on the under side of its lower extremity for insertion of the pellets, and is provided internally with a follower, a, which is pressed forward by a spiral spring, f. The follower a is guided by a pin, e, which passes transversely and laterally through it and through curved slots g g cut in the sides of the magazine E. This pin e projects beyond the said grooves g g and terminates in knobs h h, by means of which the backward movement of the follower a is effected.

F is a plunger, of cylindrical or other suitable form, and arranged to slide within the breech or rear portion of the bore of the bar-

rel B. This plunger F is operated by the hammer C, and is hinged or connected thereto by means of a connecting rod or link, c, passing through the rear extremity of the said plunger F and secured to about the central portion of the said hammer, so that when the piece is cocked the forward end of the plunger is withdrawn behind the communicating opening of the magazine E. The hammer C is actuated by a mainspring, G, arranged within the highest portion of the stock A. This mainspring G is composed of india-rubber or other elastic material, and is connected at one end to the upper part of the hammer C by means of a loop, i, and at the other end to a fixed pin, k, secured in the front part of the stock A, so that the cocking of the hammer C increases the distance between the said points of connection and causes a tension of the said spring.

I is a friction-pad, of india-rubber or other elastic substance, secured to the upper side of the inner surface of the barrel and projecting into the bore directly over the point where the magazine E opens into the barrel, so that the projectiles fed into the barrel by the follower a are successively forced against this pad I and retained thereby, regardless of any discrepancy of size, until ejected by the plunger F.

The feather-spring m it is preferred to construct of india-rubber or other cheap elastic material, for aiding in the reduction of the cost of the apparatus.

When the magazine is to be charged the follower a is forced back behind the opening b by sliding back the pin e within the slotted grooves g, whereupon the said magazine may be filled through the opening b with pease, pellets, or other missiles, which, upon the release-ment of the follower, will be retained therein or fed into the barrel from the opposite end of the magazine. The piece is cocked in the ordinary way, the act of which withdraws the plunger F by means of its connection with the hammer C until the said plunger clears the upper end of the magazine E, when the follower a, by means of the spiral spring f, forces upward the pellets contained within the magazine, thereby causing the uppermost one to occupy the position in the bore vacated by the receding plunger. This uppermost missile, being forced against the yielding pad I, is retained by the elasticity of the same, regard-

less as to whether the said missile be of sufficient size to fill the bore or of less dimension. Upon the pulling of the trigger D the hammer C is released, and is drawn forward by means of the mainspring G, and in its forward motion drives before it the plunger F, which ejects the uppermost missile with a degree of force proportionate to the strength of the spring.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The arrangement of the magazine E, plun-

ger F, hammer C, spring G, and trigger D with relation to each other and to the stock A and barrel B substantially as shown and described.

2. The curvilinear magazine E, arranged and operating in combination with the pad I substantially as shown and described.

EDWARD BUCKMAN.

ALEX. BUCKMAN.

Witnesses:

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