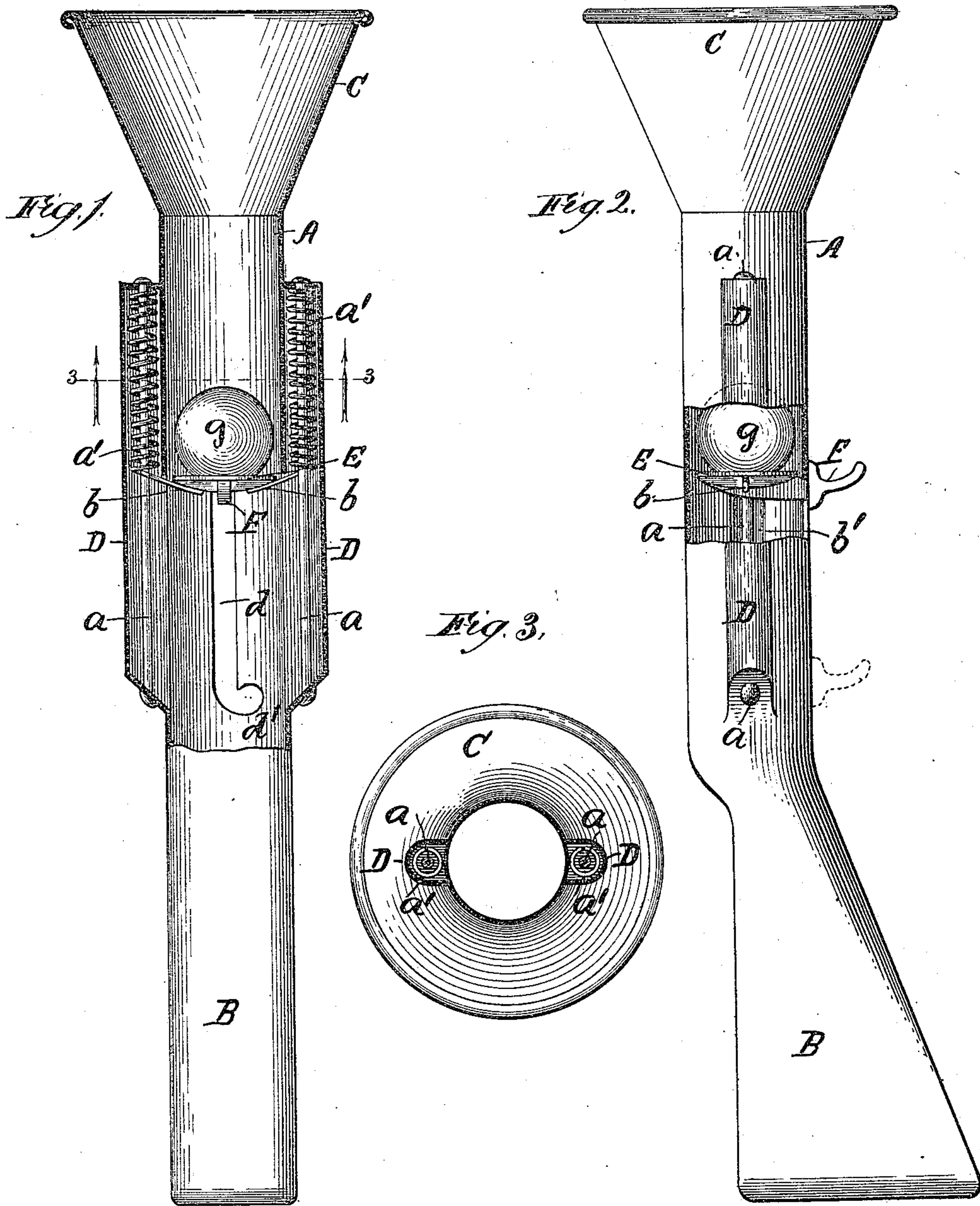


(No Model.)

H. V. HOLMES.
TOY GUN.

No. 438,237.

Patented Oct. 14, 1890.



Witnesses:
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UNITED STATES PATENT OFFICE.

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TOY GUN.

SPECIFICATION forming part of Letters Patent No. 438,237, dated October 14, 1890.

Application filed January 16, 1890. Serial No. 337,055. (No model.)

To all whom it may concern:

Be it known that I, HELEN VICTORIA HOLMES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Toy Gun, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to an improved toy gun for shooting or throwing soft rubber or other balls of a similar character; and the same consists of certain novel features in the construction, arrangement, and operation, as will be hereinafter set forth.

Figure 1 is an elevation and part section of a device embodying my improved features; Fig. 2, a side elevation; and Fig. 3 a transverse section in plane 3, Fig. 1, looking in the direction indicated by the arrows.

Referring to the drawings, A represents the short tube or barrel of the gun; B, the butt or stock, and C the enlarged flaring end forming a bell-mouthed muzzle.

The gun as a whole will be constructed ordinarily of sheet metal—such as tin; but other material may be used for the different parts, as may be necessary.

The barrel is provided longitudinally on its exterior and opposite sides with the chambers or recesses D D, which may be oval, rectangular, or cylindrical in cross-section, opening into the barrel of the gun.

The rods *a a* run through the longitudinal center of the chambers D D, and are rigidly secured at their respective ends, as shown in Figs. 1 and 2. Upon these rods are coiled the springs *a' a'*, parallel to the barrel, and which normally are about one-half the length of the chambers and their supporting-rods, as shown in Fig. 1.

The ends of the springs nearest the muzzle are secured rigidly in position, the opposite or lower ends *b b* projecting into the barrel through the longitudinal opening *b'* from the respective chamber, as shown in the broken-away part, Fig. 2. The ends *b b* extend underneath the shooting-disk (see Fig. 1) or dia-

phragm E, which may be of the concavo-convex shape shown or entirely flat.

The shooting or throwing disk is rigidly attached to the trigger F, projecting through the slot *d* in the side of the barrel. The shooting-disk and trigger are shown in their normal position, the trigger in dotted lines, Fig. 2, showing the opposite position when the companion parts are retracted to expel the object lodged against the disk. The lower end of the slot in which the trigger moves terminates in the offset *d'*, and serves to lock or hold the trigger until the gun is to be discharged. The backward movement of the trigger retracts the springs, and when the trigger is released from the pressure of the finger the forward movement or tension of the springs imparts the required force or impetus to expel the charge.

The ball *g* will be ordinarily of soft rubber or other suitable material, so as to be perfectly harmless.

The object of the bell-mouthed or flaring muzzle is to enable the ball or balls to be caught by or thrown into the guns when two persons are shooting toward each other.

It is intended that the device should be used particularly for indoor amusement, and a game may be played by two persons placed at opposite sides of a room by shooting into each other's guns or catching the ball when going wide of the mark.

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

1. A toy gun comprising a barrel having a bell-mouthed muzzle or end, a stock, chambers formed on the exterior and opposite sides of the barrel and opening into the same, springs inserted in said chambers parallel with the barrel, and a shooting-disk inserted and moving within the barrel and having the inner or lower ends of the springs and the trigger secured thereto, whereby the springs may be retracted and the charge or object resting against the disk expelled, substantially as described.

2. In a toy gun, the combination of the barrel, the chambers formed on the exterior and at opposite sides thereof and opening into the

same, the rods running through the longitudinal center of the chambers and held rigidly in place, springs coiled on said rods, the shooting-disk or diaphragm secured to the
5 loose ends of said springs, and the trigger secured to said disk and moving in a longitudinal slot in the barrel, substantially as and for the purpose set forth.

3. In a toy gun, the combination of the barrel having a trigger-slot, as described, the
10 springs lying in chambers parallel thereto, the

shooting-disk located in the barrel and secured to the loose ends of the springs, and means, substantially as described, for retracting the springs and disk, whereby the charge or object
15 resting against the disk will be expelled when the pressure on the trigger is relaxed, as set forth.

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