

J. ALEXANDER & H. W. GORDON.

Toy-Guns.

No. 146,563.

Patented Jan. 20, 1874.

Fig. 1.

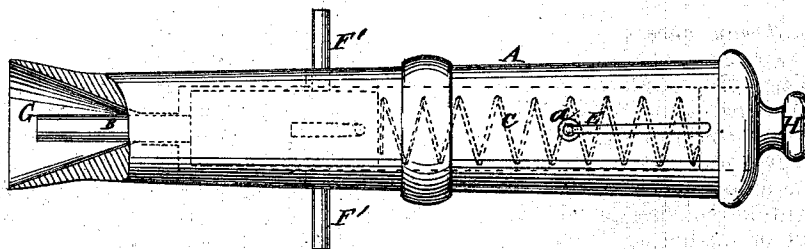
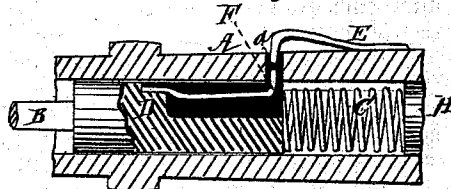


Fig. 2.



Witnesses.

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JOHN ALEXANDER, OF NEW YORK, N. Y., AND HIRAM W. GORDON, OF
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IMPROVEMENT IN TOY GUNS.

Specification forming part of Letters Patent No. **146,563**, dated January 20, 1874; application filed
October 18, 1873.

To all whom it may concern:

Be it known that we, JOHN ALEXANDER, of New York, in the county of New York and State of New York, and HIRAM W. GORDON, of Lynn, Essex county, Massachusetts, have invented a new and Improved Marble-Shooter, of which the following is a specification:

Our invention consists of a toy gun, in which a rod or pusher is thrown forward in the barrel by a spring, for expelling marbles and the like, whereof the barrel has a funnel-shaped muzzle, in which marbles, pease, or other round bodies of different sizes can be held, by friction, in front of the pusher to be expelled, the said marbles and other objects being gently pressed in to secure them.

Figure 1 is a plan view of the gun, with part broken away. Fig. 2 is a sectional elevation of a fragment of the same.

The invention consists in the arrangement of a locking and tripping spring in connection with the sliding piston, as hereinafter described.

The toy gun or cannon A has a bell or funnel shaped muzzle, G, to adapt it for shooting marbles or similar objects, the same being inserted in the mouth and held by friction until the piston is released to forcibly eject them. The cylindrical piston D has its front end B reduced to form a shoulder, which shall arrest its forward movement after delivering a blow on the marble or other projectile. The piston is recessed on one side, and a spring, F, is arranged therein, its rear end being curved upward at a right angle, or thereabout, to adapt it to enter a hole, *a*, in the barrel of the gun, so that when the piston is drawn back by the pin or pins F', it will be arrested and held by

the spring entering the hole *a*, as shown in Fig. 2. A like spring, E, is applied to the barrel A exteriorly, and its curved end also projects into the hole *a*, so that, when forced down by a blow or gently-applied pressure, it will come in contact with the end of spring F, and, disengaging it, allow the spiral spring C to drive the piston forward with great force, expelling the marble.

The form and arrangement of the spring E allow it to be struck with a rod or other suitable implement, or pressure to be applied by the finger, as desired, so that the gun is adapted to be fired when mounted in a carriage, after the manner of artillery, or when held in the hand, as in the case of small-arms.

The gun has a removable breech-block, H, which is held in place by friction. Thus, springs of different force may be inserted, according to the kind or size of the missiles to be fired, or a new spring may be inserted when the old one has become weakened or injured.

What we claim is—

In combination with the barrel A, provided with the piston D, the spring F and trip-spring E, arranged together and in connection with the hole *a* substantially as shown and described.

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