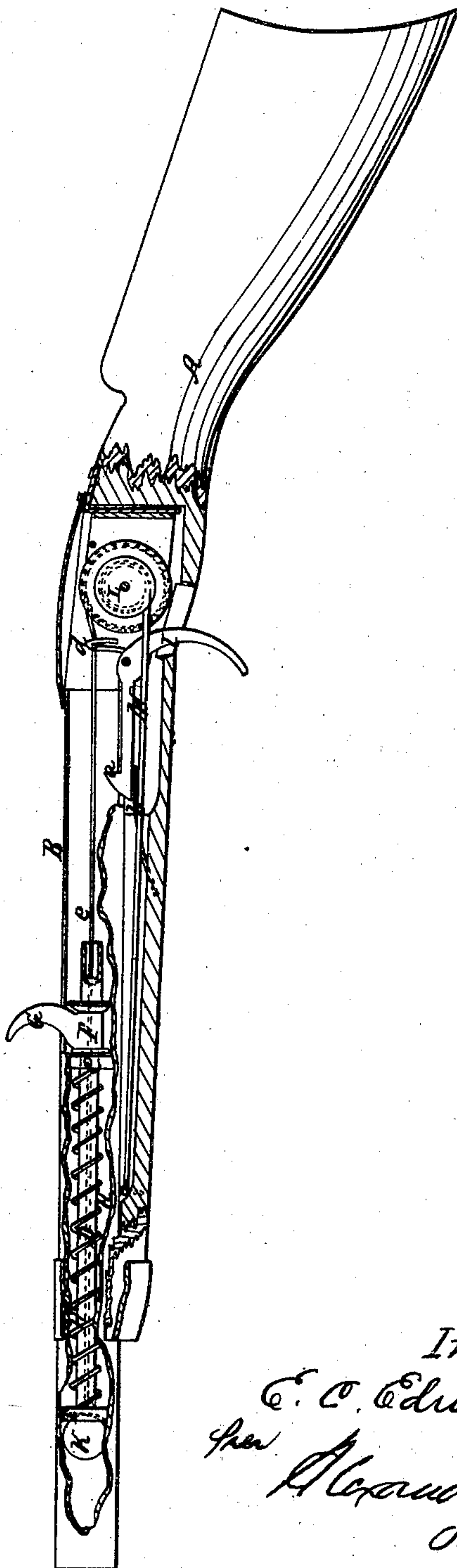


E. C. EDMONDS.
TOY GUN.

No. 88,463.

Patented Mar. 30, 1869.



Witnesses
Harry King
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Inventor
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per
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United States Patent Office.

E. C. EDMONDS, OF ALBANY, NEW YORK.

Letters Patent No. 88,463, dated March 30, 1869; antedated March 25, 1869.

TOY-GUN.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, E. C. EDMONDS, of Albany, in the county of Albany, and in the State of New York, have invented certain new and useful Improvements in Toy-Guns; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction and general arrangement of a toy-gun, in such a manner that after being fired off, the ball returns to the barrel.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and which represent a longitudinal section of my invention.

A represents the stock of a gun, to which the barrel B is secured.

The barrel B is open at the breech as well as at the mouth, and at a suitable point in the same is placed a collar, C, which is stationary, and through which a rod, D, passes.

This rod is hollow, and is provided at its forward end with a collar, E, of such size as to fit into and slide easily up and down in the barrel B.

The rear end of the rod D, in rear of the stationary collar C, is also provided with a collar, F, to which the hammer G is secured, said hammer projecting through a longitudinal slot in the upper side of the barrel.

A spiral spring, H, is placed around the rod D, between the collars C and E. When the hammer G is pulled back, it carries with it the rod D, and collar E compressing the spring H, the under side of the collar F then catches on the hook *a* of the trigger I; a small spring, *b*, holding the trigger up in its place. When, now, the trigger is pulled, the collar F is released from the hook *a*, and the spring H forces the rod D forward with great violence.

Through the hollow rod D passes a cord, *e*, which, in front of the collar E, is secured to a ball, K, and the other end is wound on a reel, L, in the stock of the gun, passing through a guard, or guide, *d*, in front of said reel.

The reel L is operated by means of a spring, M, in such a manner that when the hammer is drawn back, the said spring unwinds, and at the same time winds up the cord *e*, keeping the ball K close up to the collar E.

When, now, the trigger I is pulled, the force of the rod D throws the ball out of the gun as far as the rope *e* will allow, the cord unwinding from the reel, and the spring winding itself up.

As soon as the momentum acquired by the reel, by the force of the spring H and rod D, ceases, the spring M immediately acts on the reel in the opposite direction, winding up the cord again, and bringing the ball back into the muzzle of the gun.

By this means, I obtain a "return-ball gun," and it is evident that any kind of spring, operating in the manner set forth, may be used.

The hammer may also be made to project on either side, or from the under side of the gun, as well as from the top.

Having thus fully described my invention,

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

1. A toy-gun, constructed as described, so that the ball returns to the barrel after being fired off, substantially as herein set forth.

2. The combination of the barrel B, stationary collar C, and hollow rod D, the latter provided with collars E F, and hammer G, and spring H, substantially as and for the purposes herein set forth.

3. The combination of the reel L, spring M, and cord *e*, for the purpose of returning the ball K into the barrel, substantially as herein set forth.

4. The combination of the stock A, barrel B, hollow rod D, spring H, hammer G, trigger I, and reel L, all arranged and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal, this 28th day of August, 1868.

E. C. EDMONDS. [L. s.]

Witnesses:

J. ALLEN,

W. WENDELL.