S. C. WASHBURNE.

Toy Gun.

No. 222,216. Patented Dec. 2, 1879.

Fig1.

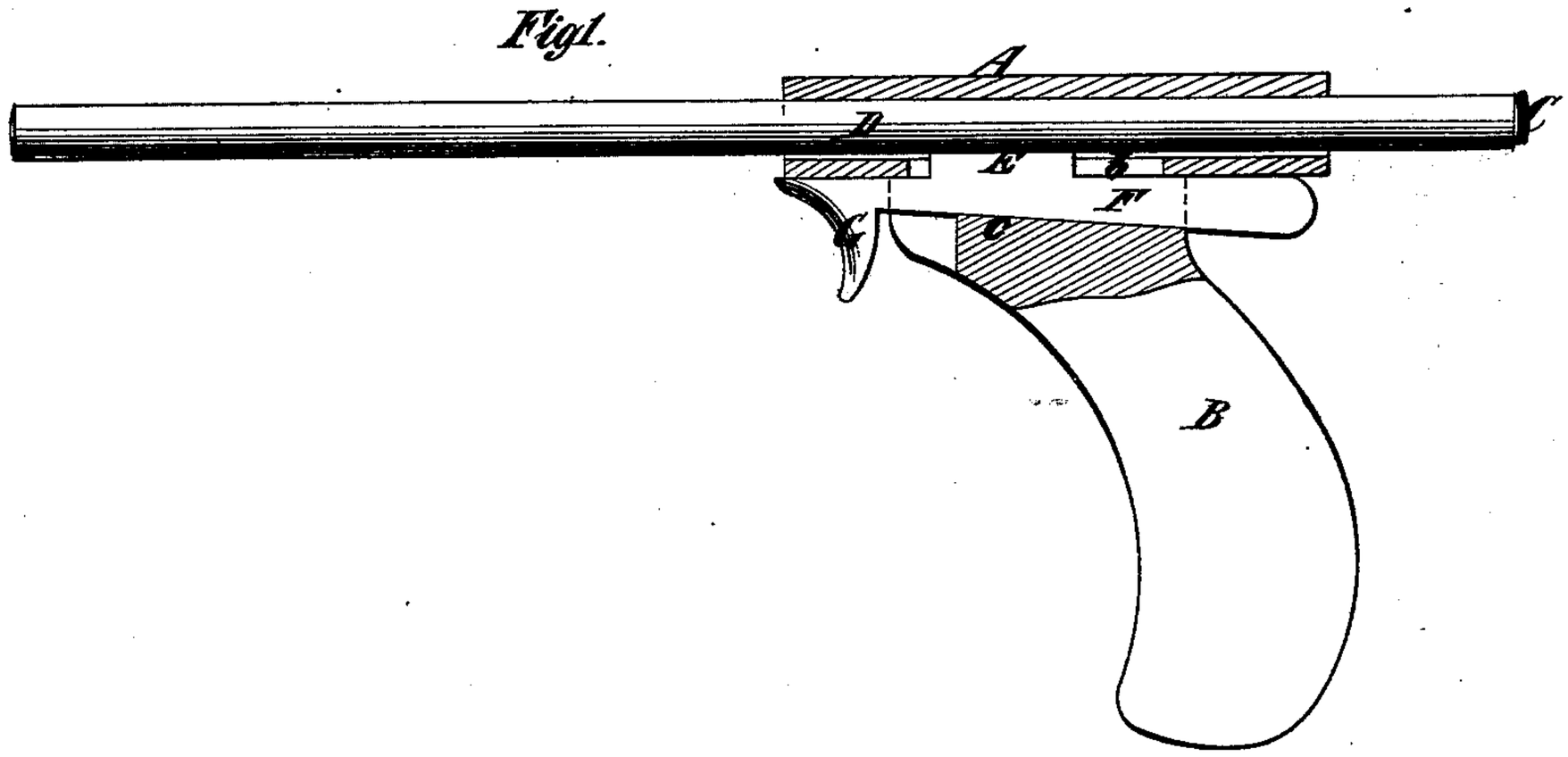

Fig 2.

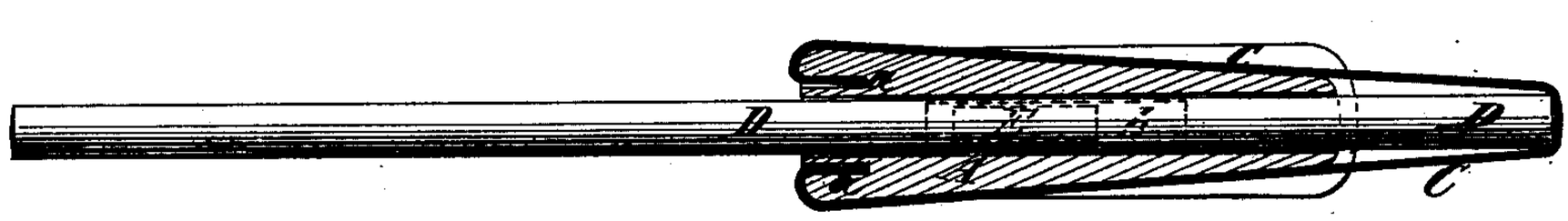

Fig3.

Witnesses:
Thomas E. Birch.
Chandler Hall.

Inventor.
S. Carl Washburne.
by his Attorney,
Edwin H. Brown.

UNITED STATES PATENT OFFICE.

S. CARL WASHBURNE, OF SING SING, NEW YORK.

IMPROVEMENT IN TOY GUNS.

Specification forming part of Letters Patent No. **222,216**, dated December 2, 1879; application filed March 14, 1879.

To all whom it may concern:

Be it known that I, S. CARL WASHBURNE, of Sing Sing, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Toy Guns, of which the following is a specification.

The object of this invention is to produce a simple and durable toy gun for ejecting a stick, rod, or other equivalent device.

To this end the invention consists in the combination, in a toy gun, of a barrel for receiving a missile, a clamping-piece comprising a wedge for holding the missile in place, and a spring for ejecting the missile; also, in various combinations of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a central longitudinal section of a short toy gun or pistol embodying my invention. Fig. 2 is a horizontal section through the center of the barrel, and Fig. 3 is a partly-sectional side view of a long toy gun or rifle embodying my invention.

Similar letters of reference designate corresponding parts in all the figures.

Referring first to Figs. 1 and 2, A designates a barrel or holder, which, in this example of my invention, is shown as rectangular externally, cylindrical internally, open at both ends, and provided with a hand-piece, B, resembling that of an ordinary pistol.

C designates a spring, consisting of an elastic india-rubber strap, shown as secured to the front end of the barrel by having its ends inserted and secured in mortises *a*, and passing along the sides of the barrel and around the back thereof.

The sides and rear of the said barrel are grooved so as to receive the said spring, so that it will not readily be displaced from the open rear end of the barrel, where it must remain in order to be ready for use.

The grooves in the sides of the barrel may be advantageously tapered or made to converge rearwardly, so as to reduce the surface with which the spring C is in contact, and hence allow of a greater extent of it operating in ejecting the missile.

The missile is shown as consisting of a rod or stick, D, capable of being inserted into the barrel A and pressed back against the rear portion of the spring C, so as to distend the latter in such manner that when the said spring contracts it will eject the said rod or stick.

E designates what I term a "lock," consisting in the present instance of a clamp projecting into the lower side of the barrel A through a slot, *b*, therein, and capable of being forced against the rod or stick D when in position for ejection, so as to hold it until it is desired to eject it. I have shown this lock as extending from a slide, F, arranged in a groove or slideway, *c*, and having its lower side tapered toward the front end, so as to form a wedge, and fitting upon a correspondingly-inclined face of the groove or slideway forming the bottom thereof. Hence when the slide is moved forward the clamp is carried forward, and at the same time forced upward into the barrel A against the rod or stick D.

The slide is shown as furnished with a trigger or finger-piece, G, occupying the position of the trigger in a fire-arm, in front of the hand-piece B. By pulling the slide back by means of the trigger or finger-piece, the lock E releases the rod or stick D, whereupon the latter is forcibly ejected by the spring C.

To cause the lock E to operate on the rod or stick D, it is only necessary to force the slide F forward by pressing against its rear end, so as to raise the said lock into contact with the said rod or stick.

Referring now to Fig. 3, which represents a longer gun or imitation of a rifle, the parts are constructed similarly, except that the stock S is connected by a bar, T, with the barrel A, and the trigger or finger-piece G is adjacent to the stock and connected to the slide F by a bar, U.

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

1. The combination, in a toy gun, of a barrel for receiving a missile, a clamping-piece comprising a wedge for holding the missile in place, and a spring for ejecting the missile, substantially as specified.

2. The combination of the barrel A, with its grooved outer sides, its attached handle B, the clamp comprising the wedge F, and the spring C, attached to the forward part of the barrel, fitting in the grooved outer sides thereof and extending around the rear end of the barrel, substantially as specified.

S. CARL WASHBURNE.

Witnesses:

S. OLIN WASHBURN,

C. F. RUDGER.