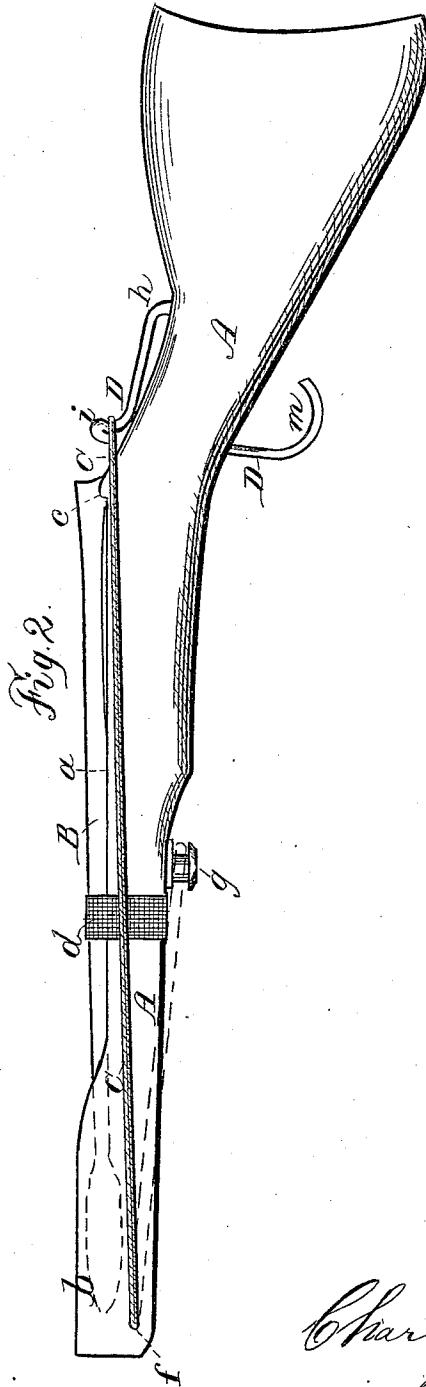
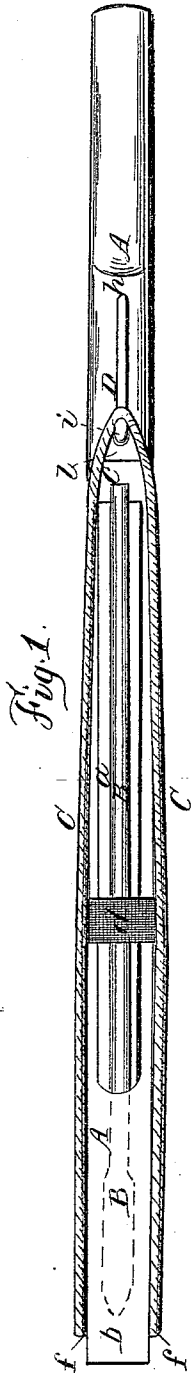


C. Robinson,

Spring Gun.

No. 93,908.

Patented Aug 17, 1869.



Witnesses:-
H. Beald.
James Atkins

Charles Robinson
By his att
J. A. Brown

United States Patent Office.

CHARLES ROBINSON, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 93,908, dated August 17, 1869.

ARROW-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, CHARLES ROBINSON, of Boston, in the county of Suffolk, and State of Massachusetts, have invented an Improved Arrow-Gun; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a top view of the gun, and

Figure 2, a side view thereof.

Like letters designate corresponding parts in both figures.

This gun is designed as a substitute for the cross-bow, and it may be used in place of the bow and arrow. I also contemplate its use for the manual exercise, by making it of the size and general form of the regulation-musket.

The stock A is grooved at *a* for the reception of the arrow B, except a portion, *b*, at the muzzle, which may be enclosed around the bore, in continuation of the groove.

The arrow, of ordinary form, may have its notched or feather-end rest in a notch, *c*, at the rear end of the groove *a*, a little higher than the groove, so as to raise the arrow into position to take the cord when sprung, the notch also keeping the feather-edge upright.

One feature of my improvements consists in the use of an elastic band, *d*, stretched around or attached to the stock, about in the position shown, under which the arrow goes. It serves to hold the arrow securely in position, before discharging, and also to guide it more accurately and steadily in its discharge.

Instead of a bow, I employ an elastic cord, C, for throwing the arrow. It passes through, or is attached to the stock at *f*, near the muzzle, and forms a loop, which is of the proper length to be stretched with the requisite force, when brought back behind the arrow.

When the cord is not in use for throwing the arrow, it is brought below the stock and fastened around a knob or hook, *g*, or its equivalent, being stretched

slightly when thus fastened. It is thus held from dangling, when carrying and handling the gun.

For the lock, or catch and trigger, to hold the cord, when set for firing, I use a simple spring-wire, D, one end, *h*, being driven into the stock; then, forward of that, having a projection, or bend, *i*, for the catch; thence extending down through an aperture, or slot, *l*, in the stock, and terminating below, with a projection or trigger, *m*.

The whole form and arrangement are substantially as represented.

It is very simple and cheap, but as convenient and effective as any other device for the purpose.

Instead of making the trigger elastic in itself, it may be pivoted to or in the stock, and a slight spring be used to keep it in position to receive the cord; the latter not being necessary, however, the essential feature of the device being a single piece, of any suitable form, with a hook, or catch-projection, *i*, which holds the cord, without the assistance of a detent, and discharges the cord by slipping downward, away from the same.

I am aware that an elastic cord has been used to throw balls and pellets, and to spring forward plunger-rods in toy-guns; but I am not aware that a spring-cord has ever before been employed as a substitute for the bow and string, on a gun for throwing arrows; therefore,

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

The combination and arrangement of the open-grooved stock A, arrow B, elastic cord C, and elastic band D, substantially as and for the purpose herein specified.

The above specification signed by me, this 16th day of December, 1868:

Witnesses: CHARLES ROBINSON.

JOSEPH BRADLEY,
IRA TAYLOR.