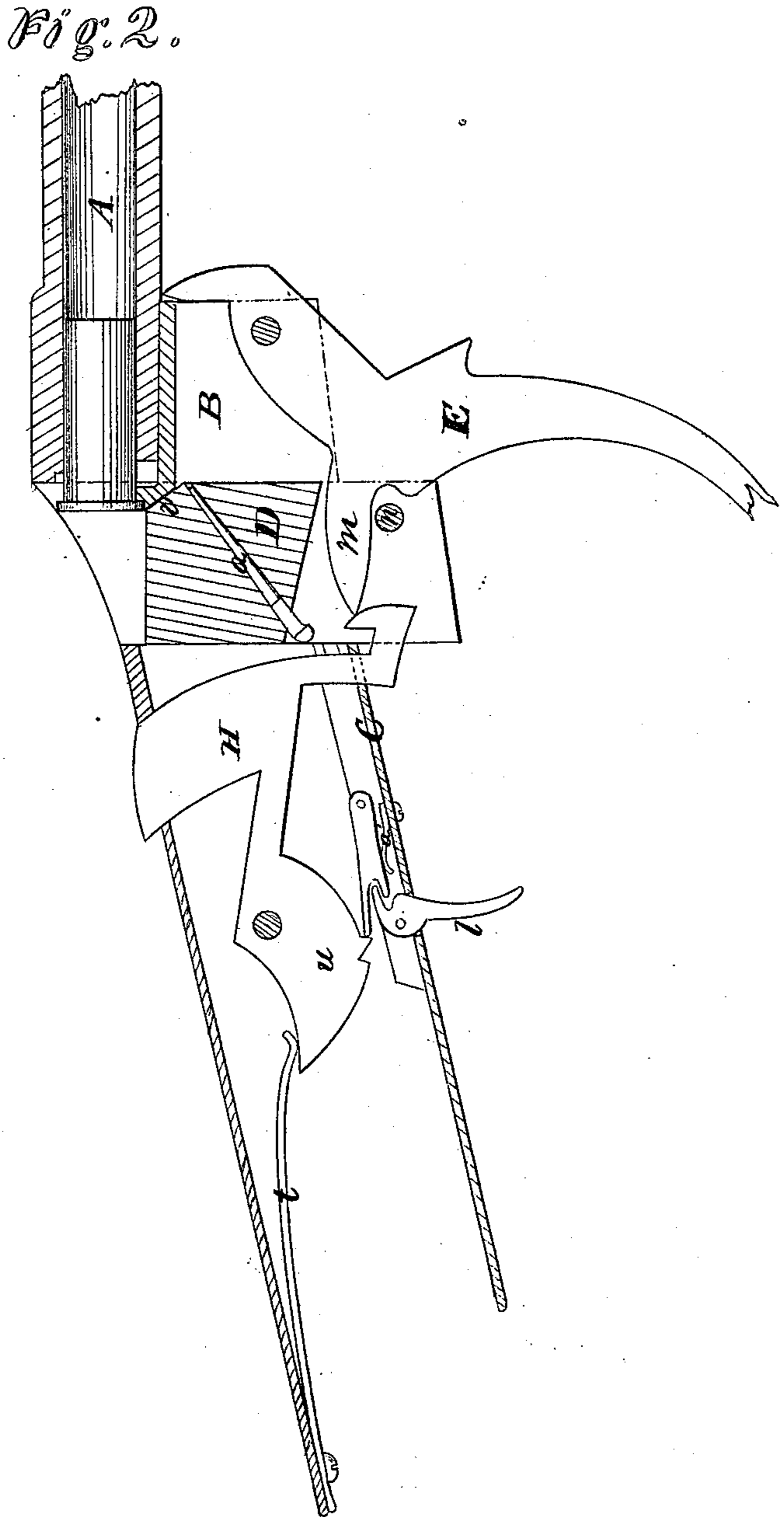
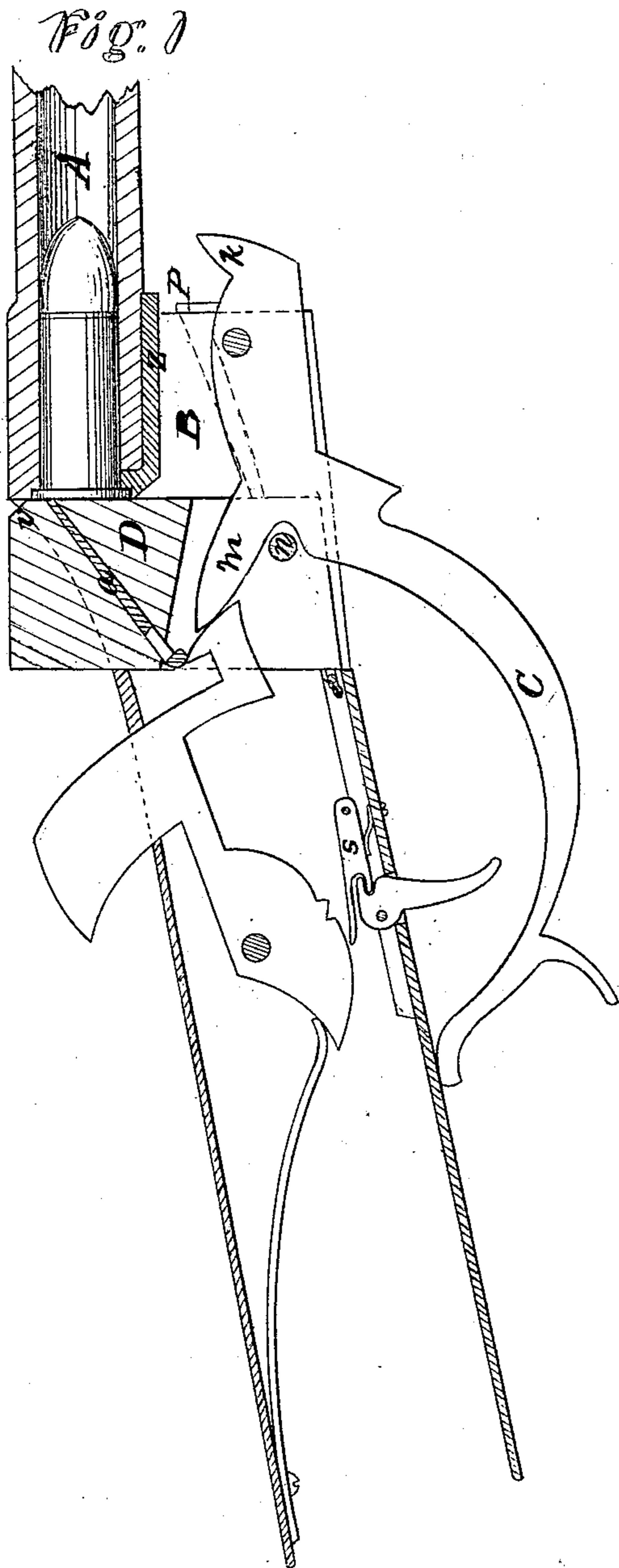


S. RYDBECK.

Breech-Loading Fire-Arm.

No. 104,775.

Patented June 28, 1870.



Witnesses.
 Villette Anderson.
 Chas. Kenyon

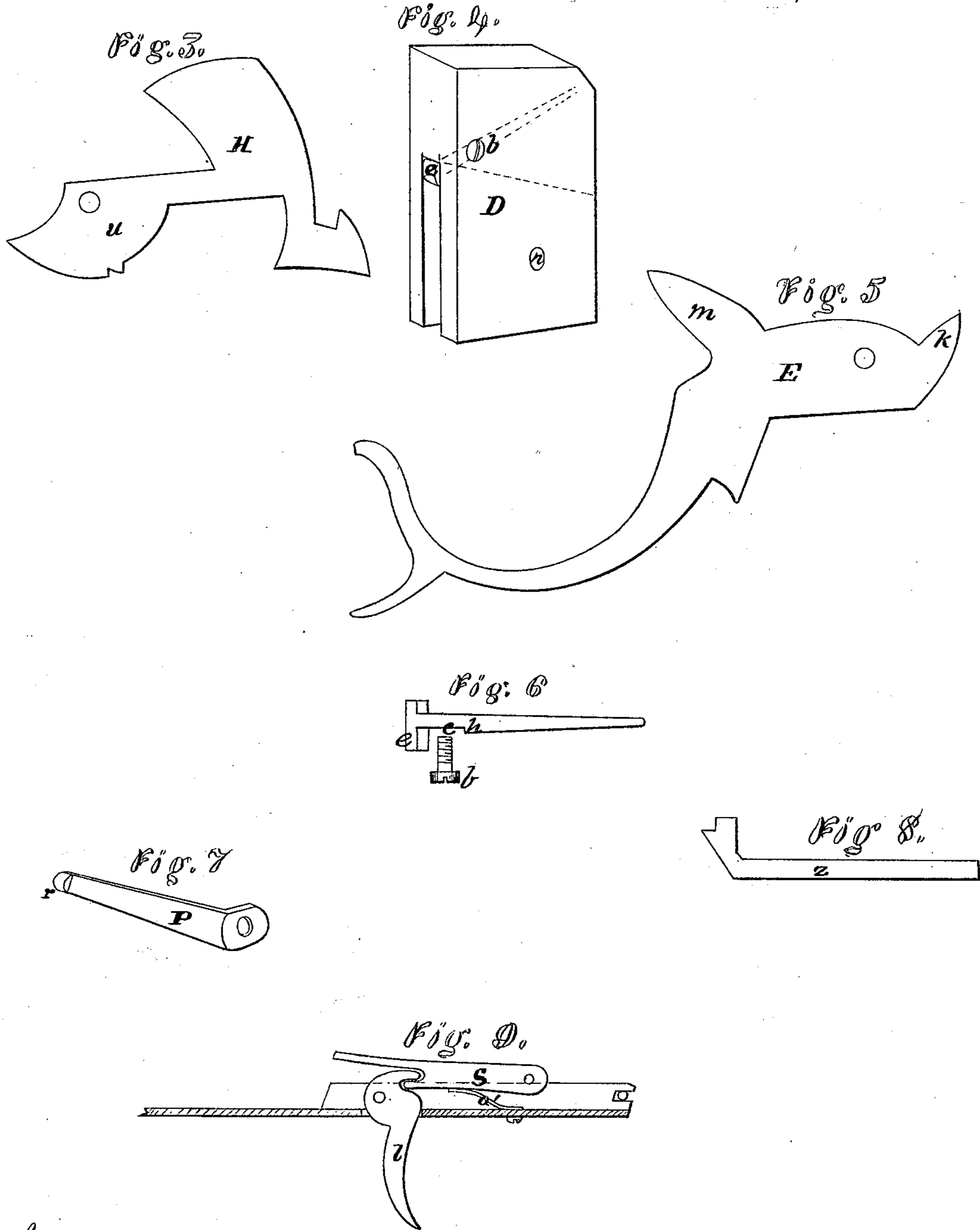
Inventor.
 S. Rydbeck
 Chipman Hosmer & Co
 Attorneys.

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United States Patent Office.

SVEN RYDBECK, OF RED WING, MINNESOTA.

Letters Patent No. 104,775, dated June 28, 1870.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

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, SVEN RYDBECK, of Red Wing, in the county of Goodhue and State of Minnesota, have invented a new and valuable Improvement in Breech-loading Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a central vertical section of my invention, when fired.

Figure 2 is a similar section, showing the position of the parts when the breech-piece is drawn down after firing.

Figures 3, 4, 5, 6, 7, 8, and 9 are details.

My invention relates to fire-arms; and consists in the construction and novel arrangement of devices designed to form a simple, durable, and efficient breech-loader.

The parts of my invention are few in number and simple in their construction and mode of operation.

The letter A of the drawing designates the barrel, and

B the lock-plate.

C represents the guard-plate.

D is the breech piece, sliding at right angles to the axis of the barrel, and operated by means of the guard-lever E. It is perforated in an upward and forward direction to receive the firing-pin *a*, which is kept from falling out by the end of the set-screw *b* operating in the depression *c* between the head *e* and the shoulder *h*.

A leg, *k*, is formed on the forward end of the lever E, which extends upward in such a manner that, when the breech-piece is drawn down, the extractor *z* will be thrown to the rear.

The under portion of the rear end of the extractor is beveled to fit the upper forward corner *v* of the breech-piece, which is thus enabled to press the extractor forward into position.

The lower portion of the breech-piece or slide D is cleft to receive the lug *m* of the guard-lever by which it is operated.

In drawing the slide down, this lug *m* works against the pin *n*, which is inserted through the walls of the cleft. At the same time the extreme end of the lug *m* engages with the hammer and carries it downward with the breech-piece until it is caught by the sear *s*.

The hammer H is a lever, the rear arm *u* of which is semicircular in form, and toothed, to operate as a tumbler.

The hammer is operated by the main-spring *t* secured to the upper tang of the lock-plate.

When liberated from the sear by means of the trigger *l*, the main-spring forces the rear part of the hammer down, thereby causing the forward portion to strike upward against the head of the firing-pin.

a' designates the sear-spring, which is secured to the guard-plate.

The forward end of the guard-plate is forked and slotted, to embrace the pins *e'*, by which it is secured in position.

P designates a stout spring, having a shoulder, *r*, designed to press upon the side of the lever-guard E, thereby producing friction, except when the end of the lever is up against the guard-plate or drum, down to its lowest position.

The gun having been discharged, the lever E is drawn down, thereby opening the rear of the chamber, throwing out the shell of the cartridge and setting the hammer.

A fresh cartridge having been inserted, the lever is drawn up, returning the slide to its place, when the piece is ready to be discharged.

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

1. In combination with the sliding breech-piece D, provided with the firing-pin *b*, and having its upper and forward corner beveled, the extractor *z*, having the under portion of its rear end correspondingly beveled, and the combined hammer and tumbler H, arranged to strike upwardly against the end *e* of the firing-pin, substantially as shown and described.

2. In combination with the guard-lever E, the friction-spring P, having lug *r*, as specified.

3. In combination with the sliding breech-piece D, combined hammer and tumbler H, extractor *z*, and friction-bar P, the guard-lever E, having the lugs *m* and *k*, when constructed and arranged to operate in the manner and for the purposes shown and described.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

SVEN RYDBECK.

Witnesses:

FRANK IVES,
OLIFF PETERSON.