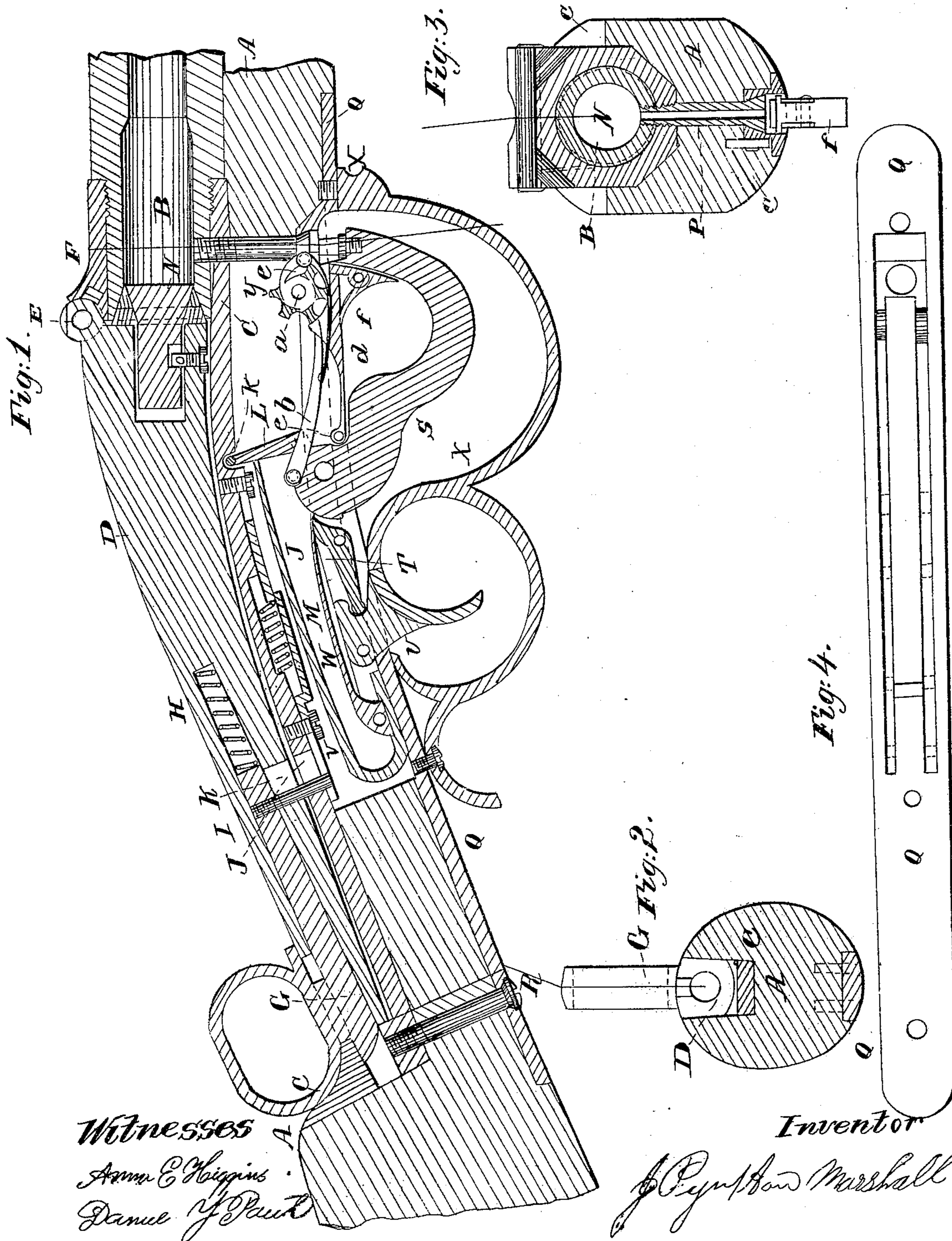


J. P. MARSHALL.
Breech-Loading Fire-Arm.

No. 25,661

Patented Oct. 4, 1859.



UNITED STATES PATENT OFFICE.

J. PLYMPTON MARSHALL, OF MILLBURY, MASSACHUSETTS.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. 25,661, dated October 4, 1859.

To all whom it may concern:

Be it known that I, J. PLYMPTON MARSHALL, of the town of Millbury, in the county of Worcester, in the State of Massachusetts, have invented new Improvements in Fire-Arms; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Description of the drawings of enough of a fire-arm to show my improvements as now arranged:

Figure 1 is a side sectional view of all the parts except *a*, *b*, and *c*. They not being in the center, and outside of the flange on the guard, are drawn over the other parts. Fig. 2 is an end view as it would appear cut off, as indicated by the red line, and looking toward the muzzle; Fig. 3, an end view as it would appear cut off, as indicated by the red line, with guard and hammer removed, and looking toward the breech; Fig. 4, a top or inside view of the guard-plate, which is also lock-plate.

Like letters refer to like parts.

The nature of my improvements consist, first, in combining the catch or lock-bolt of the movable breech with the discharging-lock of the arm in such a manner that removing the catch, so as to raise the movable breech, will put a stop or catch in the lock, so as to make it impossible to discharge the arm by use of the lock without the movable breech is brought down, and made secure by the return of the catch, which relieves the lock, thereby removing all liability of accident by discharging the arm without the movable breech being closed and made fast or secure; second, in arranging the lock for the tape-primers in such a manner that the coil of caps may be put in edgewise, and the end of the coil laid onto the mechanical device for carrying them out, instead of crowding them in sidewise, as is necessary by the usual arrangement, thereby making it less trouble to put them in for operation.

Description of the different parts and their use:

A is the stock; B, the barrel; C, the stationary breech-piece, which is screwed onto the barrel; D, the movable breech-piece; E, the pin on which it swings; F, an elliptic

spring, which is fitted into a slot back of the hinge and presses so hard against it that when the part D is open it prevents it from falling back, and especially so when it is thrown over far enough to spring into the cavity which is made on the top of the hinge.

G is the catch or lock-bolt, by which the movable breech is locked down.

H is the spring to keep the catch in place.

I is a pin screwed into the catch, which prevents it from coming out too far; also fits into a hole in the part J, which is held to part C by screws K K passing through slots in the piece, so that when the catch is moved forward the part J, which has a slot in the end, moves forward under the pins made on the stirrup L above those which hold onto the mainspring, and, like them, making it impossible to operate the lock when the catch is moved forward so as to raise the movable breech.

M is a spring, half in the breech-piece C and half in the part J, so that when the movable breech-piece is unlocked the spring will keep the part J forward, though the arm be held in any position; N, the patented cone and rings, held in place by screw O.

P is a screw through which the fire from the caps passes into the barrel, and by which one end of the guard-plate Q is held on.

R is a screw that holds on the other end.

S is the tumbler and hammer, having on its head the cone or cap-seat, and held in place by a screw or pin passing through the flanges on the guard-plate.

T is the sear; U, the trigger, held in the same manner; V, the mainspring; W, the sear-spring, having its seat on the mainspring and fitting into it slightly, so that both are held on by one screw or pin passing through the flanges X, the guard over the hammer as well as the trigger held onto the plate by a screw at each end.

Y is a cogged-shaped wheel to carry out the tape-primers, and *a* the ratchet made fast to the same pin to move the same by means of the finger *b*, which is attached to the tumbler by a screw or pin, so that every time the lock is cocked and snapped it will move the wheel one tooth.

c is a spring and catch, one end bearing

against the finger to keep it against the ratchet, the other resting on the ratchet, so that when it (the ratchet) is moved forward one tooth, the catch will drop into the next, and thus prevent it from turning back, while the finger returns for another tooth. *d* is a cover hung on the pin *e*, which is made to close onto the caps to keep them in place, and which drops down when any new ones are put in by pressing against the tip of the catch *f*, which is attached to the cover, and having little horns or projections that fit into the slots in the guard-plate to hold the cover in place, as is shown in Fig. 3.

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

1. The combination of the lock-bolt (of the movable breech) or its equivalent and the discharging-lock of the arm with intermediate parts, for the purpose above set forth.

2. Arranging the lock for the tape-primers in the manner above described, for the purpose specified.

J. PLYMPTON MARSHALL.

Witnesses:

ANNA E. HIGGINS,
DANIEL J. PAUL.