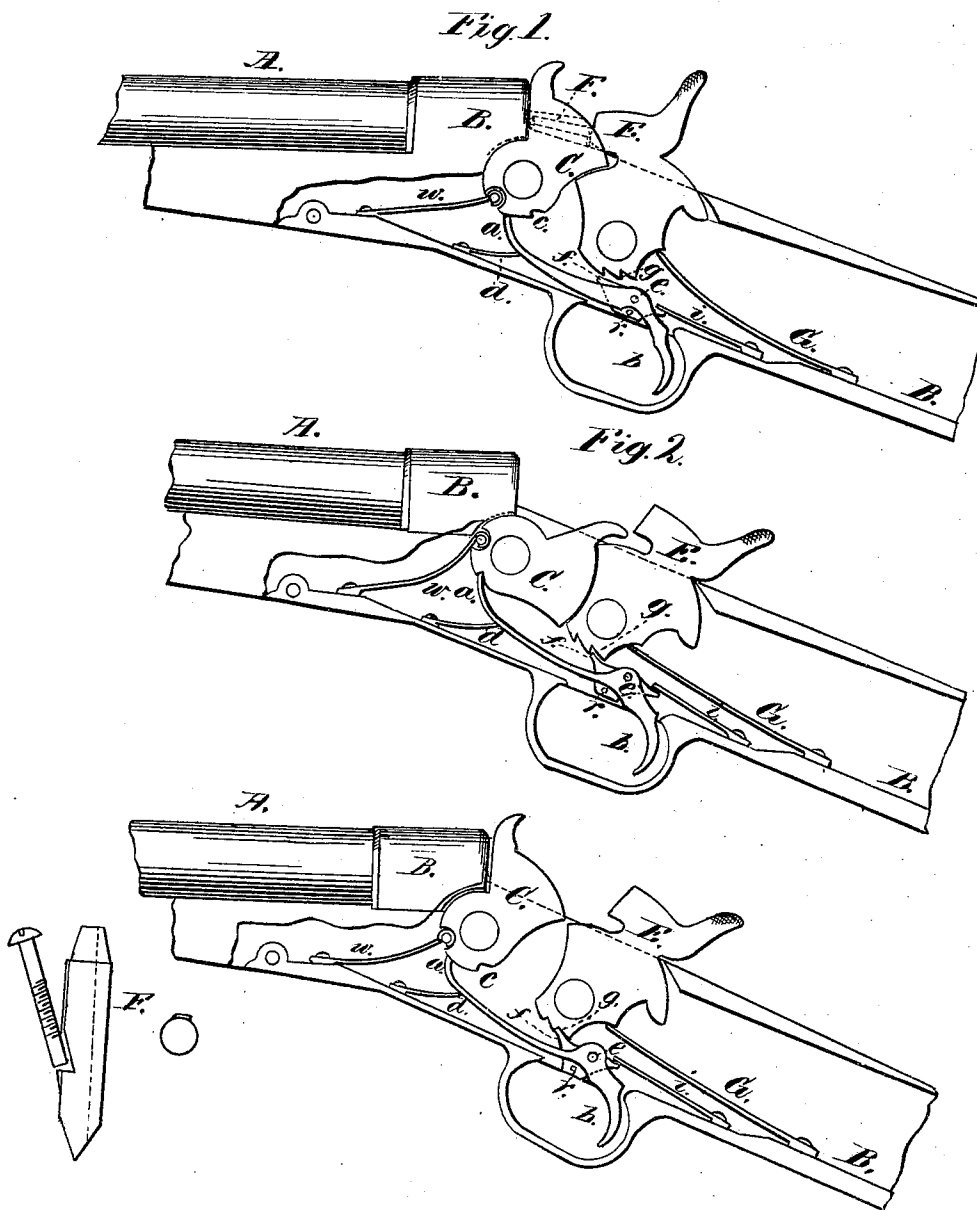


G. MICHELENA.
Breech-Loading Fire-Arms.

No. 148,571.

Patented March 17, 1874.



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IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **148,571**, dated March 17, 1874; application filed September 18, 1873.

To all whom it may concern:

Be it known that I, GUILLERMO MICHELENA, of the city, county, and State of New York, have invented a new and useful Improvement in Breech-Loading Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical longitudinal section of a gun having my improvement applied thereto, the breech being closed. Fig. 2 represents a corresponding section with the breech-block open to allow of the introduction of a cartridge into the chamber of the gun. Fig. 3 is also a corresponding section, showing the various parts composing the breech mechanism and lock in still different positions—the breech of the gun closed by the breech-block, and the hammer in position to move forward and explode the cartridge.

My invention consists in the construction and arrangement of the breech mechanism and lock to a gun so that by the single movement of pulling the trigger the breech-block must first close to its seat, and, by a continuous movement of the trigger backward, will subsequently release the hammer to explode the cartridge.

Like letters designate corresponding parts in all of the figures.

The barrel A, stock B, breech-block C, hammer and lock block E, and firing-pin F are the same in general form, and well known to those skilled in the art, as the Remington breech-loader, and requiring no further description in this application.

In order that the breech-block C shall close and the hammer be released to explode the cartridge by a single movement of the trigger, the front end or toe *a* of the trigger *b* is elongated, and extends sufficiently forward to take into a notch, *c*, formed in the lower edge of the breech-block C, as shown in the several figures. Beneath this toe or elongation *a* is placed a spring, *d*, bearing against its lower surface, which serves to retain the toe *a* in

contact with the edge of the breech-block C, except when released by pressing the trigger *b* in the discharge of the arm. Thus, when the various parts composing the breech and lock are in position, either before or after firing, the toe *a* will rest against the edge of the block C, as shown in Fig. 1, in which position the parts are closed. The same pivot *e* upon which the trigger *b* turns serves as an axis for the sear *f*, which takes into the notches *g* in the lower side of the hammer E. The sear *f* is held against the lower edge of the hammer by a sear-spring, *i*, secured to the stock B in the usual manner.

In Fig. 2 the hammer E is represented as drawn back, and the breech-block C thrown down in position to allow of the insertion of a cartridge into the chamber of the gun. In these positions the toe *a* of the trigger *b* rests in the notch *c* of the breech-block, and the sear *f* rests in the notch *g* of the hammer, in which positions, by simply pressing the trigger, the toe *a* thereof will release the breech-block C, which is thrown upward and forward by means of the spring *w*, closing the breech of the gun, and, by a continuous movement, the lower side of the trigger is brought in contact with a pin, *r*, projecting from the sear *f*, which releases the hammer to explode the cartridge by means of the mainspring G and firing-pin F. Thus, when the breech-block is released and thrown into position against the breech of the gun through the action of the spring *w*, and the hammer still held back by means of the sear *f*, the parts will assume the relative positions, as shown in Fig. 3, the breech-block against the chamber of the gun closing it, and the hammer in readiness to move forward, lock the breech-block, and explode the cartridge through the medium of the firing-pin F.

When desired to close the breech-block, and not explode the cartridge, it may be readily accomplished by placing the thumb upon the hammer and arresting its forward movement, releasing at the same time the breech-block through the trigger, which will immediately close to its seat, after which the

hammer may be lowered to half-cock, or to rest upon the firing-pin F, if preferred.

Having thus fully described my improvement in breech-loading fire-arms, what I claim therein as new, and desire to secure by Letters Patent, is—

The combination of the breech-block C, spring *w*, hammer E, trigger *b*, and sear *f*, when so constructed and arranged as to close

the breech C and release the hammer E, to explode the cartridge by the one movement of the trigger, substantially as herein set forth.

GUILLERMO MICHELENA.

Witnesses:

MANUEL MUÑOZ,
S. MICHELENA.