A. BURGESS.

Magazine Fire-Arm.

No. 169,083. Patented Oct. 26, 1875.

Fig. 1.

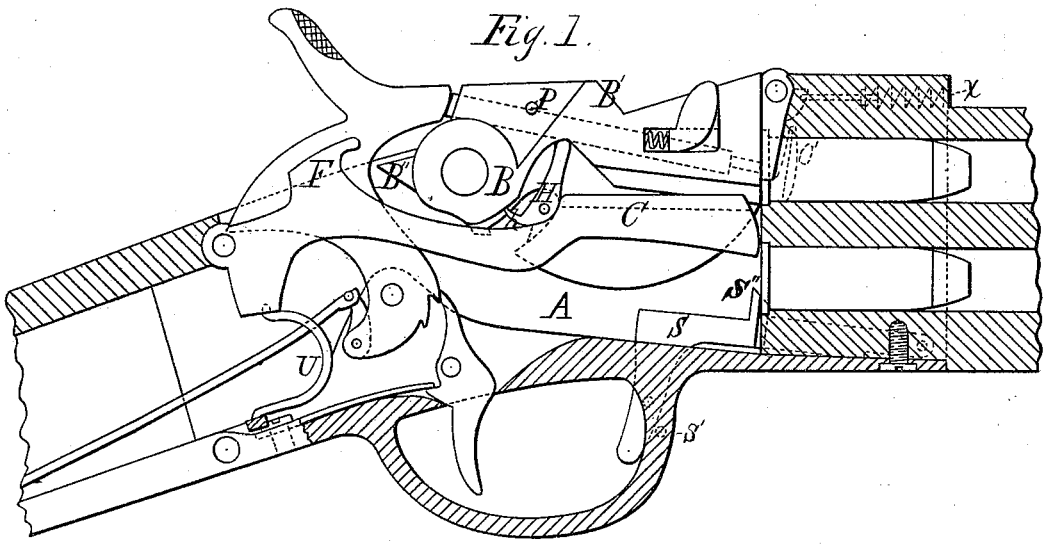
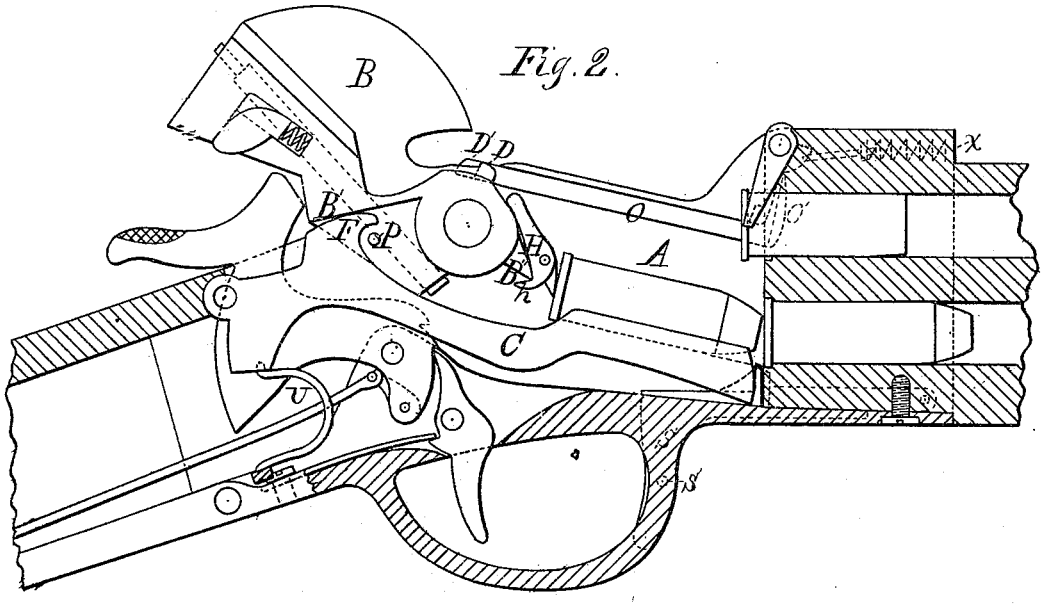


Fig. 2.



WITNESSES

Mary F. Utley.

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ANDREW BURGESS, OF OWEGO, NEW YORK.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. **169,083**, dated October 26, 1875; application filed October 18, 1875.

To all whom it may concern:

Be it known that I, ANDREW BURGESS, of Owego, in the county of Tioga and State of New York, have made certain new and useful Improvements in Magazine Fire-Arms, of which the following is a specification:

My invention consists, principally, in the construction and manner of operating the carrier-block and extractor, the hand for glancing up the extracting and starting in the feeding cartridge, and the magazine-stop, together with the general arrangement and combination of parts hereinafter more fully set forth and described, reference being had to the accompanying drawings.

Similar letters of reference indicate corresponding parts.

Figure 1 is a side view, partly in section, of my arm, with the breech and magazine closed. Fig. 2 is a similar view, showing the breech open and carrier-block down to admit a cartridge from the magazine, the interior mechanism being partly represented by dotted lines.

The receiver A contains a pivoted breech-block, B. The pivoted carrier-block C is operated downward by the shoulder B′ on the breech-block, and operated upward by the stud P, in conjunction with the spring U. H is an oscillating hand, pivoted transversely in the receiver; and O is the extractor-bar, which, being pulled back by the projection D on the breech-block, operates the extractor by an angle or band of its forward end, which is continued in the upright O′, passing forward of an arm of the extractor, thus pulling it back with a positive and accelerated motion. S is the stop for closing the magazine.

To operate my improved arm I turn the breech-block B upward and back. This movement cocks the hammer by the breech-block turning back upon it. The breech-block also forces down the forward part of the carrier, by the shoulder B′ coming in contact with the top of the carrier-bar at F. At the same time the tail B″ of the breech-block turns the top of the hand H backward, by striking it below its pivot, and the stud D on the breech-block engaging with the shoulder D′ on the rear of the extractor-bar O, first starting the exploded cartridge-shell by the lower part of the bar O, which hooks forward of the extractor-arm, when the vertical extension of the extractor-bar O′ engages near the pivot of the extractor, and gives it an accelerated movement, which, either alone or with the assistance of the spring *x*, throws the cartridge-shell violently against the hand H, (the top of which has by this time been turned backward by the tail of the breech-block,) which glances it upward and clear of the gun. The forward end of the carrier having fallen, a cartridge passes from the magazine, and is guided by the top of the carrier until it strikes and is stopped by the lower part of the hand H.

In the first part of the closing movement of the breech-block, its stud P, engaging with the lug F, raises the carrier to a level with the bore of the arm, and in raising it strikes the angle *h* of the hand H back of and below its pivot, thereby throwing its top quickly forward and starting the cartridge into the chamber of the barrel, when the further closing of the breech-block drives the cartridge all the way into the chamber, when the arm is fired by pulling the trigger in the ordinary manner.

To use the arm as a single-loader the lower arm of the stop S is turned up, and springs past the stud S′ on the guard, which then holds it closed, the beveled point S″ pressing the cartridge forward out of the way of the carrier, and retaining it in the magazine until we spring the arm of the stop down over the stud S′, which releases the cartridge.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The carrier C, pivoted at its rear, and operated downward by the shoulder B′ rotating upon it by the opening movement of the breech-block, as described.

2. The stud P on the breech-block, in combination with the lug F on the carrier, which, engaging together, raise the carrier by the forward or closing motion of the breech-block, substantially as specified.

3. The combination of the pulling extractor-rod O, provided with a shoulder, D′, with a pivoted breech-block, provided with a lug, D, whereby the backward movement of the breech-block serves to operate the rod O, as described.

4. The extractor-bar O, having a shoulder to pass forward of and pull back the extractor,

and so arranged as to first start the extractor back by contact at a point remote from the pivot, and by its continued backward movement to engage the extractor near its pivot, and produce an accelerated motion, as specified.

5. The hand H, pivoted transversely in the receiver, in combination with the carrier, whereby the hand is thrown forward to start the cartridge into the barrel, as described.

6. The hand H, pivoted transversely in the receiver, in combination with the extension B″, whereby said hand is thrown backward to form an inclined guide for the extracted shell, to throw the latter out of the receiver, as set forth.

7. The combination of the breech-block B with the carrier C, spring U, and hand H, the parts being arranged and operating together as described.

8. The L-shaped magazine-stop, provided with the beveled projection S″, and pivoted to the frame of the gun in front of the mouth of the magazine, and adapted to be held in and out of operative relation with the magazine by the stop S on the guard, all as set forth.

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Witnesses:
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