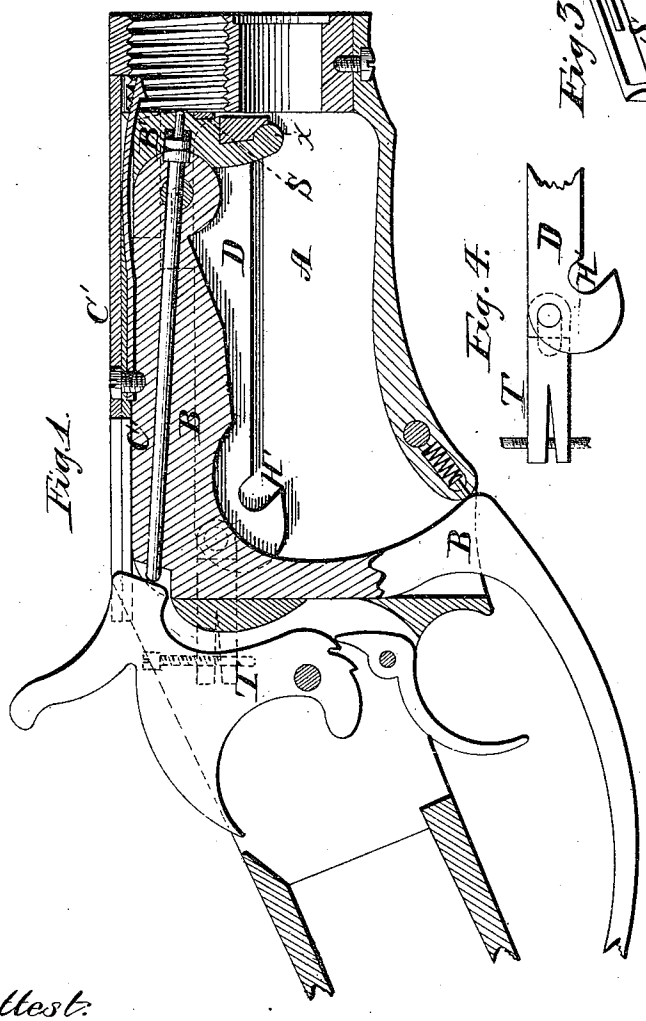
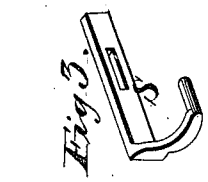
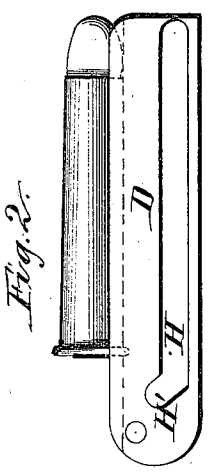
A. BURGESS.

Magazine Fire-Arms.

No. 168,966. Patented Oct. 19, 1875.







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UNITED STATES PATENT OFFICE.

ANDREW BURGESS, OF OWEGO, NEW YORK.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. **168,966**, dated October 19, 1875; application filed October 15, 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 invented a new and useful Improvement in Breech-Loading and Magazine Fire-Arms, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The improvements in this arm consist, principally, in the carrier-block and manner of operating it; the feeding from the magazine to the chamber of the arm; the carrier-stop, which permits it being used either as a single-loader or repeater, together with the general arrangement and combination of parts, hereinafter more fully explained and described.

In the accompanying drawings, Figure 1 represents a sectional side elevation of the arm. Fig. 2 is a modification of the carrier-block. Fig. 3 is the cartridge-stop, and Fig. 4 shows the stop to change the position of the carrier-block.

Similar letters of reference indicate corresponding parts.

A is the receiver, which contains the lock and other mechanism of the arm. B is the rear or rotating part of the breech-block, and B′ is the forward-reciprocating part, carrying the cartridge-stop S. C is the sliding cover and guide, which carries the extractor, and by its backward motion cocks the hammer, and C′ is the upper removable part of sliding cover projecting forward over the extractor. D is the carrier-block, and T is the carrier-block stop. The carrier-block, being pivoted at its rear, has a vertical opening extending from its extreme rear to near its forward end, to permit the breech-block B to pass downward through it, and also to allow the lower projection of breech-block B′, which carries the stud *x*, to move through it longitudinally. This stud *x*, projecting under the bottom of the side of the carrier-block, or in the grooves H, as shown in Fig. 2, holds it up on a level with the bore of the arm, until, by its rearward movement, it strikes the lower part of the angle or recess H′, and forces down the forward part of the carrier-block, and in its forward or closing motion forces the carrier upward by contact with the upper part of said incline or angle H′. By this device the carrier remains up against the breech-block until the breech is opened to nearly its full extent, so that it serves to guide out the extracting shell, and to feed the cartridge in upon when the arm is used as a single-loader; in which case the stop T is turned back, which allows the carrier-block to slide longitudinally backward, so that the angle H′ may not be reached by the stud *x* when the breech is opened.

To operate this arm as a repeater, using the magazine, the stop T is pressed in, which blocks the carrier forward; then the guard-lever is turned forward, opening the breech to its full extent, when the cartridges are inserted into the magazine from the top of the receiver on top of the carrier-block; then we put another cartridge in the barrel and close the breech by pulling back the guard-lever, and fire the piece by pulling the trigger in the ordinary manner; then we push forward the guard-lever, which extracts the exploded shell by the spring-extractor, and the carrier, falling, receives a cartridge from the magazine. This feeding cartridge is prevented from proceeding too far backward by the stop S. Then, by pulling the guard-lever back, the breeck-block B′ starts forward; but the stop S remains stationary until the breech-block proceeds far enough to raise the carrier, when said stop is carried forward with the breech-block until the breech is closed, when we pull the trigger and repeat as before. The cap C′ projects forward slightly over the point of the extractor, and the extreme rear of the barrel is formed with a rearward-projecting lip on its upper part, to prevent all danger of the cartridges flying up and out when feeding from the magazine.

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

1. The combination, in a magazine fire-arm, of a cartridge-carrier, a breech-block, and a receiver, the parts being constructed and combined substantially as described, whereby the carrier is caused to remain up parallel with the bore of the barrel when the breech is closed, and is operated downward by the last part of the movement of opening the breech, when its upper surface falls to receive a cartridge from the magazine, and by the first

part of the movement of closing, the breech is raised to a position to allow the cartridge to be inserted into the barrel by the closing breech.

2. In a magazine-gun, a cartridge-carrier bifurcated and pivoted at the rear end, in combination with a breech-block whose forward end moves in a horizontal plane, and whose rear end passes down between the two arms of the carrier in the act of opening the breech, substantially as described.

3. The cartridge-stop S, constructed substantially as described, when carried by and sliding in the breech-block B′, and stopped by the rear of the opening in the receiver, as set forth.

4. The stop T, in combination with the carrier-block, so arranged that when in engagement with the latter it will prevent its backward movement and allow it to be operated by the breech-block, but when out of engagement the carrier is allowed longitudinal movement, by which it is thrown out of operative relation with the magazine.

5. In a magazine fire-arm, the combination of the sliding cover C′, the rearwardly-extending lip on the upper side of the barrel, and the vibrating carrier D, to prevent the cartridge from being thrown out of the receiver by the sudden movement of the carrier, as set forth.

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Witnesses:
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