J. SCHUDT & J. P. SCHUCH.
Breech-Loading Fire-Arm.

No. 197,742. **Patented Dec. 4, 1877.**

Fig: 1

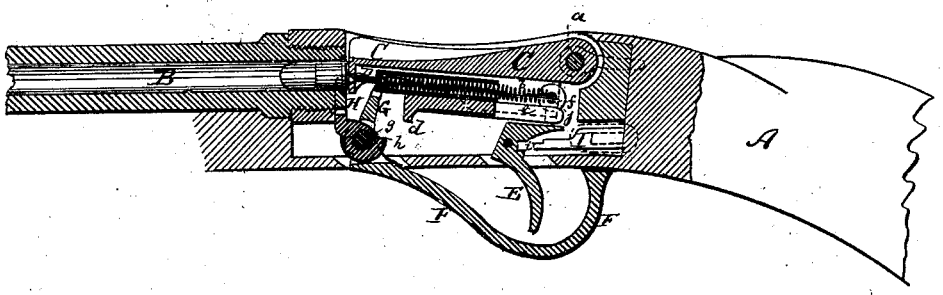


Fig: 2

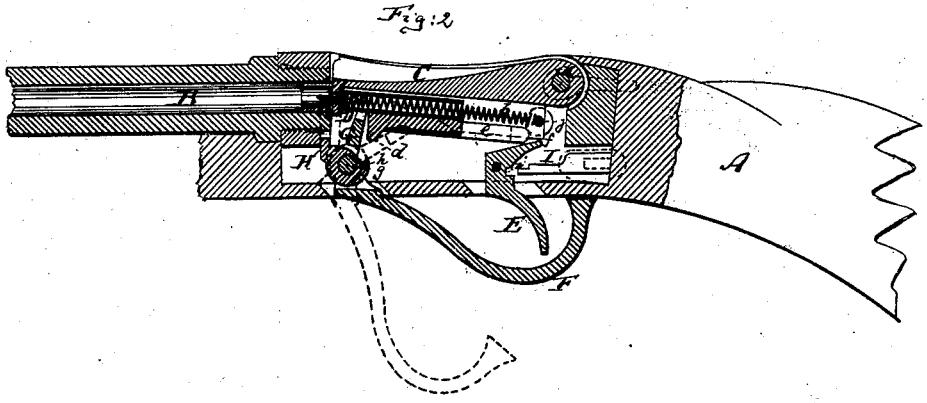


Fig: 3

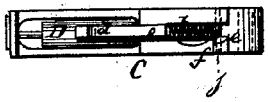


Fig: 4

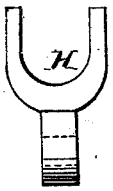
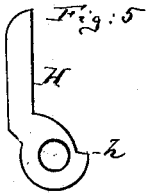


Fig: 5



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UNITED STATES PATENT OFFICE.

JOHN SCHUDT AND JOHANN PHILIPP SCHUCH, OF NEW YORK, N. Y.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **197,742**, dated December 4, 1877; application filed October 23, 1877.

To all whom it may concern:

Be it known that we, JOHN SCHUDT and JOHANN PHILIPP SCHUCH, both of New York city, in the county and State of New York, have invented a new and useful Improvement in Breech-Loading Fire-Arms, of which the following is a specification:

Figure 1 is a longitudinal central section of our improved breech-loading fire-arm, showing the parts in position ready for firing. Fig. 2 is a similar section of same, showing parts in position after firing. Fig. 3 is a detailed bottom view of the breech-block; Fig. 4, a face view, and Fig. 5 an edge view, on an enlarged scale, of the cartridge-shell extractor.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to certain improvements on the breech-loading fire-arm described in Letters Patent No. 191,721, granted June 5, 1877, to John Schudt.

The present invention consists in a new arrangement of the breech-block for bringing the parts that are carried by the same into more compact connection; also, in an improved combination of the same with the mechanism for raising and lowering the breech-block, and for compressing the firing-spring; in a new manner of actuating the shell-extractor, and new safety-slide for locking the trigger, all as hereinafter more fully described.

In the accompanying drawing, the letter A represents the stock, and B the barrel, of the fire-arm. C is the breech-block, pivoted at *a* in the stock, and made with a concave top to receive the cartridge while loading. The lower part of the breech-block C is grooved to receive and contain the sliding firing-pin D, the spring *b*, that actuates the same, and a downwardly-projecting nose, *d*, on the firing-pin. The shank of the firing-pin is hollowed, as shown, to receive the front portion of the spring, and yet act as a guide during the movements of the pin. The back end of the spring *b* bears against a removable pin, *j*, which is held in the back of the breech-block. The sliding nose *d* carries a backwardly-projecting spring-catch, *e*, which, when the pin D is moved back, catches over a shoulder, *f*, of the block C, as in Fig. 3, and holds the pin in position ready for firing.

The trigger E, when moved to crowd the catch *e* aside, releases the firing-pin, and permits the contracted spring *b* to expand and move the firing-pin rapidly forward.

Below the front portion of the breech-block C is pivoted in the stock B, at *g*, a U-shaped lever, G, which connects rigidly with the trigger-guard F. By swinging said trigger-guard down, as by dotted lines in Fig. 2, the lever G is swung backward against the nose *d*, pushing the same back, compressing the firing-spring *b*, and causing the catch *e* to engage over the shoulder *f*. At the same time, the backward movement of the lever G causes the breech-block to swing down and expose the breech end of the barrel, for the discharge of the empty cartridge-shell and the insertion of a new cartridge. When, thereupon, the guard F is raised against the stock, the lever G is swung forward, and the breech-block elevated to close the breech end of the barrel, as in Fig. 1. The parts are then ready for firing.

The cartridge-shell extractor H is also U-shaped, as shown in Fig. 4, and is pivoted by the same pin, *g*, which holds the lever G. A shoulder, *h*, on the lower part of the extractor is struck by the lever G when the latter has reached its most backward position, and the extractor is thereby swung back to remove the empty shell just after the block C has been lowered.

I is a safety-slide placed behind the trigger, and provided with a suitable handle, so that it can be pushed into a notch, *i*, of the trigger, to lock the same and prevent the accidental discharge of the loaded gun.

We claim as our invention—

1. The breech-block C, combined with the sliding firing-pin D, whose shank is made hollow, for receiving the spring *b*, and with the nose *d* on said firing-pin, and with the spring-catch *e*, to operate substantially as herein shown and described.

2. The lever G, rigidly connected with the trigger-guard F, and combined with the breech-block C, sliding nose *d* on the firing-pin, and with the spring *b* and catch *e*, to operate substantially as herein shown and described.

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