

V. BOVY.  
BREECH-LOADING FIRE-ARM.

No. 191,563.

Patented June 5, 1877.

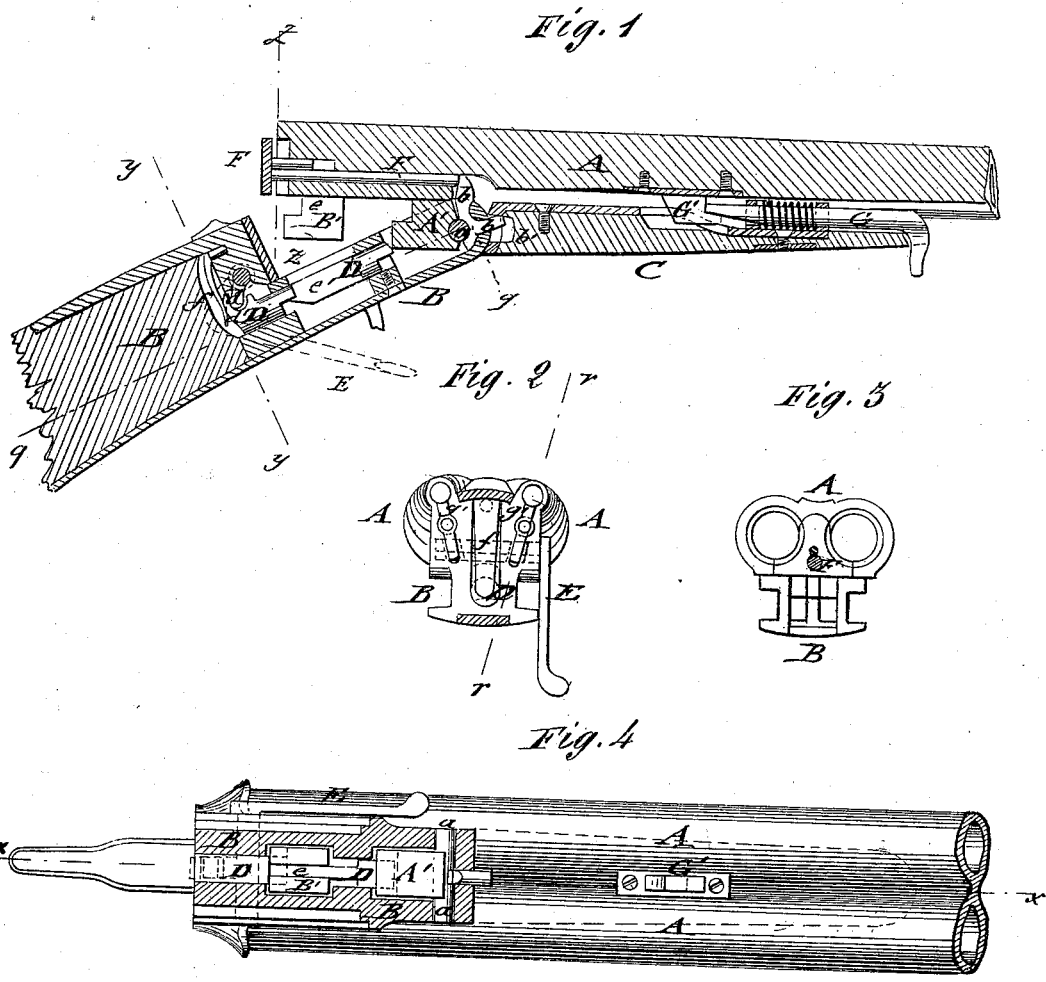


Fig. 1

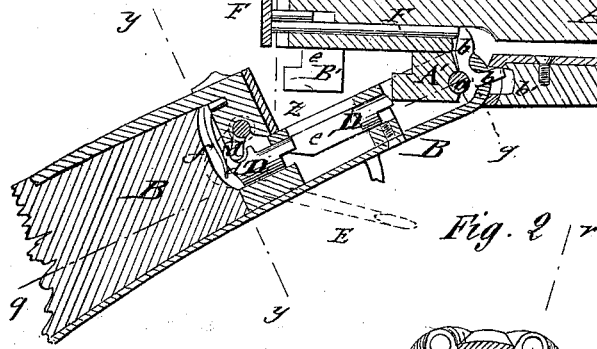


Fig. 2

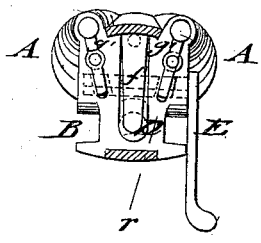


Fig. 3

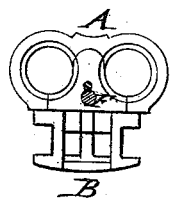


Fig. 4

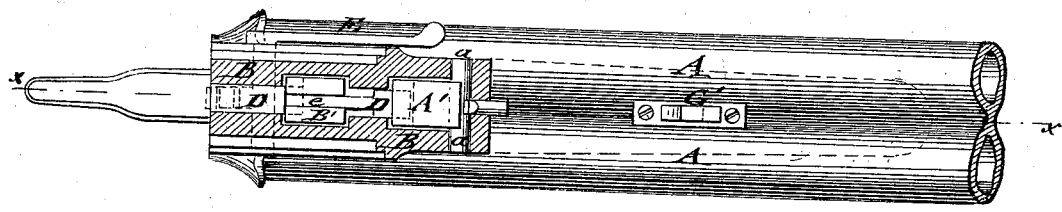


Fig. 5

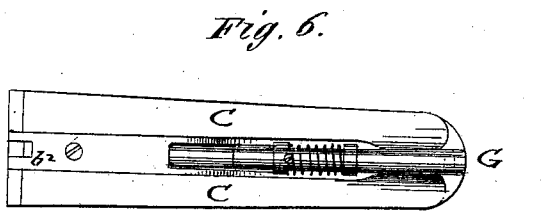


Fig. 6

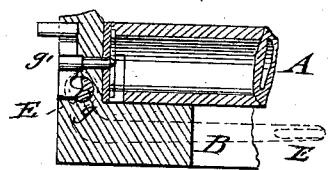
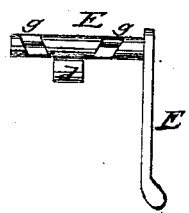


Fig. 7

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# UNITED STATES PATENT OFFICE.

VICTOR BOVY, OF NEW YORK, N. Y.

## IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **191,563**, dated June 5, 1877; application filed March 12, 1877.

*To all whom it may concern:*

Be it known that I, VICTOR BOVY, of the city, county, and State of New York, have invented a new and Improved Shot-Gun, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section of my improved shot-gun on line *x x*, Fig. 4. Figs. 2 and 3 are detail vertical transverse sections of the same, respectively, on lines *y y* and *z z*. Fig. 4 is a bottom view of the gun, showing the breech-piece in horizontal section on line *q q*, Fig. 1. Fig. 5 is a detail vertical longitudinal section on line *r r*, Fig. 2; Fig. 6, a top view of the detachable forestock. Fig. 7 is a detailed view of the operating-lever.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide for sportsmen and others an improved construction of breech-loading shot-gun, in which the barrels may be readily removed from the breech-piece and the different parts of the mechanism be taken apart and put together with great facility, without the use of screws, and without requiring tools to disconnect or replace the parts. The gun may be readily repaired and any injury ascertained.

The invention consists of a breech-loading shot-gun, operated by a lever that throws a bolt and locks thereby the hinged barrels to the breech-piece, pushing the center firing-pins backward on releasing the bolt. A fixed elbow-piece of the frame operates the extractor and serves in connection with a recessed lug of the barrels to attach firmly the detachable forestock in position.

In the drawing, A represents a single or double barrel of my improved shot-gun, B the breech-piece, and C the detachable forestock.

The barrel or barrels A are hinged to the end of the frame by the front lug A', being seated against a detachable cross-pin, *a*, and by being retained by the forestock C, and by a fixed elbow-piece, *b*, that is firmly secured into a corresponding socket-recess of the frame.

The barrels A are provided near the breech with a second lug, B', back of the front lug A', which are both recessed for the entering of the double lock-bolt D that slides in suitable guides of the frame of the breech-piece

B, and is operated by the arm *d* of a crank-lever, E, said arm entering a recess or support, *d'*, of the bolt.

The lug B' nearest the breech has a central slot, *e*, so as to pass over the flat connecting-portion *e'* of the double bolt D, as shown in Figs. 1 and 4, and admit thereby the passage of the recessed bolt parts through the recessed lugs, and thereby the rigid locking of the barrels to the breech-piece. By swinging down the crank-lever and withdrawing the bolt, the barrels are unlocked and allowed to swing down on the breech-piece for putting in the cartridges.

A spring, *f*, bearing on the rear end of bolt D, assists the throwing of the bolt and locking of the barrels.

The upward-projecting arm of the elbow-piece *b* forms contact with the longitudinal guide-rod of the extractor E, that is thrown back automatically by the elbow-piece on swinging the barrels into open position, so as to admit the easy withdrawal of the shells and the replacing of the same by new cartridges. The extractor is pushed in again by its contact with the breech-piece on swinging down the barrels so as to resume its position in the recess at the breech end of the barrels.

The shaft of the crank-lever E is further provided with recesses and with cam-shaped portions *g* within said recesses, as shown in Figs. 5 and 7. These cams *g* bear on the lower part of sliding firing-pins *g'*, that are drawn back of the face of the breech-piece by the swinging down of the crank-lever simultaneously with the withdrawal of the lock-bolt, so that they are not in the way of swinging the barrels. The firing-pins *g'* slide in recesses of the breech-piece, and are thrown forward by the action of the hammers which strike on rear-extending top-pins of the same, while a second front pin with pointed end, about midway between the bottom part and the top pin, is thrown forward and strikes the cartridges at the center, for discharging the same.

The forestock is locked to the barrels by a sliding and spring-acted bolt, G, that enters a recessed bottom lug, G', of the barrel.

The bolt G is withdrawn by a finger-piece at the end that projects downward, and ad-

mits the working of the bolt for detaching the forestock C. The top part of forestock C is concaved to fit to the under side of the barrel or barrels, and provided with a slotted metal plate into which the lug G' enters, and above which the locking-bolt G is guided. The rear end of the forestock, at the connection with the rounded-off end of the frame B, is concaved to swing on the end of said frame, and connected to the lower arm of the fixed elbow-piece *b* by a recess, *b*<sup>1</sup>, and to the top arm by a recess, *b*<sup>2</sup>, of the top plate, so as to be firmly seated at the end of the frame, the swinging motion of the barrels being controlled by the contact of the elbow-piece with the recessed barrel for opening, and with the recessed end of the forestock for locking the same.

When it is desired to take the gun to pieces, the forestock C is first taken off by withdrawing the lock-bolt, and the breech-piece and barrels are then separated by swinging down the crank-lever and withdrawing the double lock-bolt.

Every part of the operating mechanism may

thus be readily inspected and repaired in case of wear or injury, and thereby a shot-gun of simple, convenient, and effective construction obtained.

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

1. The combination of the lever and shaft E, having arm *d* and cams *g*, with the sliding double lock-bolt D having recess *d*<sup>1</sup>, and with the sliding center firing-pins *g*<sup>1</sup>, for the purpose of withdrawing simultaneously bolt and firing-pins for swinging barrels into open position, substantially as and for the purpose specified.

2. The combination of the fixed elbow-piece *b* at end of breech-piece with barrels A having recessed lug G', and with detachable forestock C having rear recesses *b*<sup>1</sup> *b*<sup>2</sup>, for the purpose described.

VICTOR BOVY.

Witnesses:

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