

W. W. GREENER.
Breech-Loading Fire-Arms.

No. 168,328.

Patented Oct. 5, 1875.

Fig 1.

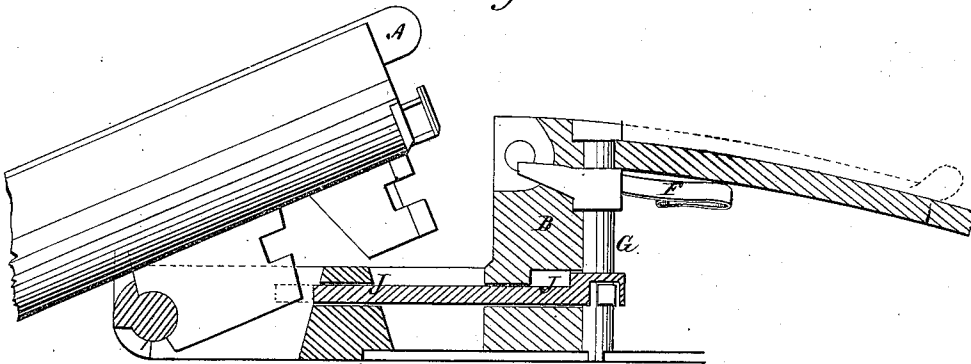
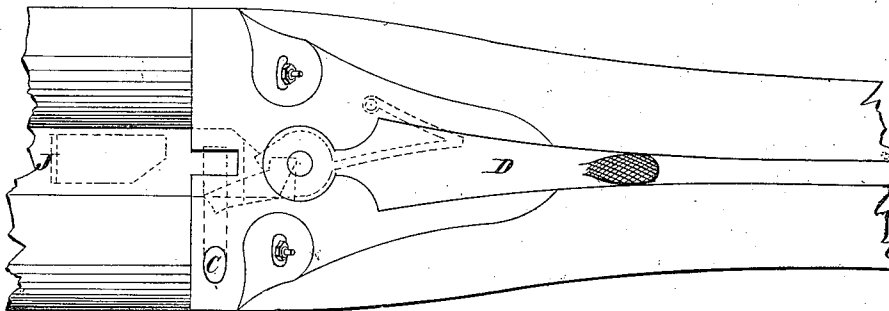


Fig 2.



Witnesses;
Harry C. Clark
James J. Finley

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by *H. C. Beadler*
His Attys

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Fig 3.

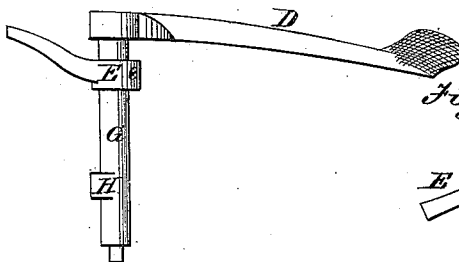
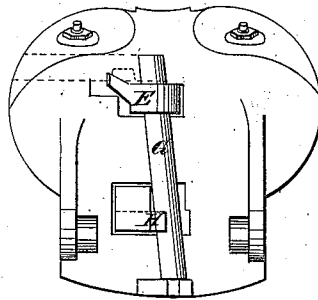


Fig 4.

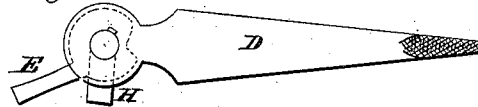


Fig 5.

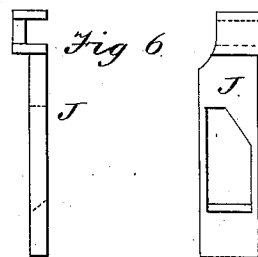
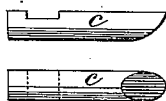


Fig 6.

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UNITED STATES PATENT OFFICE.

WILLIAM W. GREENER, OF BIRMINGHAM, ENGLAND.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **168,328**, dated October 5, 1875; application filed June 3, 1874.

To all whom it may concern:

Be it known that I, WILLIAM WELLINGTON GREENER, of Birmingham, England, have invented Improvements in Breech-Loading Guns, Rifles, and Pistols, of which the following is a specification:

My invention refers to the description of breech-loading guns known as the Lefauchaux or drop-down principle; and consists in an improved method of securing the barrels to the action.

In the drawings, Figure 1 represents a partial sectional view of the breech-action, with the barrel raised for loading, with the side view of the extended rib A, and top bolt C, and bottom bolt J in position. Fig. 2 represents a top view of the breech-action closed, with the top bolt C and bottom bolt J in position, as shown in dotted lines. Fig. 3 represents a back view. Fig. 4 represents a side and top view of the lever, with long pin and cams E and H, which engage with the top bolt C and bottom bolt J. Fig. 5 represents side and top views of the bolt C. Fig. 6 represents side and top views of bolt J.

The manner of carrying my invention into effect is as follows: I make an extended rib projecting beyond the breech end of the barrels A, Fig. 1, and fixed between the barrels, shutting into the false breech B, Fig. 1, when closed. I make a cross-bolt to work half through the false breech at the top. The point of said bolt engages in a round hole through the extended rib, effectually preventing the barrels from rising on the springing back of the standing breech at the moment of firing, C, Fig. 2. I work the said bolt by a lever on the top, over the strap of the break-off D, Fig. 2. I make a hole in the strap of the false breech, in which I insert a tumbler or cam, E, Fig. 3. The crank of said tumbler projects through the top of the strap of break-

off, upon which I fix a thumb-lever, D, Figs. 2 and 4, working over the strap of the false breech, and I also use a sear-spring, F, acting on the tumbler to make it self-locking. The top bolt is combined with the bottom bolt, the same lever being used to effect. I make a long pin, G, Figs. 1 and 4, extending from the strap of break-off down to the trigger-plate, and fixed close to the back of the standing breech, the top end of the pin projecting through the strap of break-off, the bottom end through the trigger-plate, Figs. 1 and 3. I make a projection or cam, E, Fig. 4, near the top of the said pin at the front, which engages in the top bolt C, Fig. 5. (Shown in position in Fig. 2.) I also make another projection or cam, H, Fig. 4, on the said pin at the side, which engages in a slot in the bottom bolt J, Fig. 6. The top of said pin is fitted to the lever, working on the strap of false breech by moving the lever to the right. The cross-bolt C is withdrawn toward the left, and the bottom bolt J is drawn backward by the same motion of the lever, disengaging the barrels for loading. I use the ordinary snap, double and single bottom bolt; also, a double bolt of improved shape, J, Fig. 6, which is the ordinary double bolt, with a combination of the slot on the left side, which gives a longer bite both on the end and side of the lump.

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

The combination of the lever D and shaft G, having arms E H, with the bolts C J, as described.

WILLIAM WELLINGTON GREENER.

Witnesses:

J. B. GOULD,
J. BRAME.