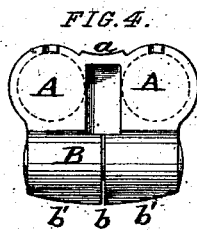
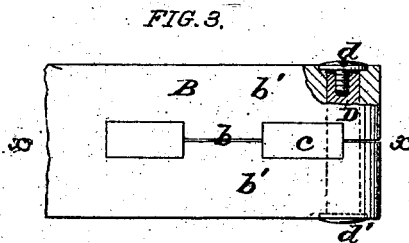
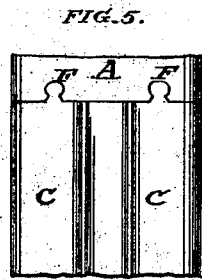
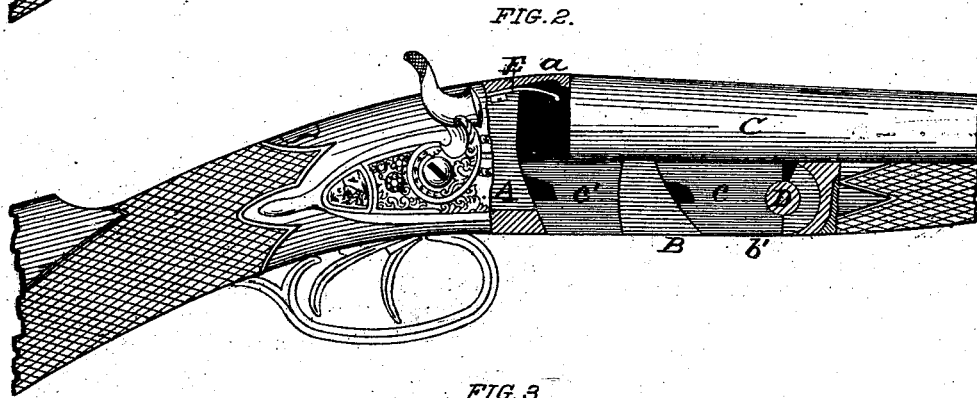
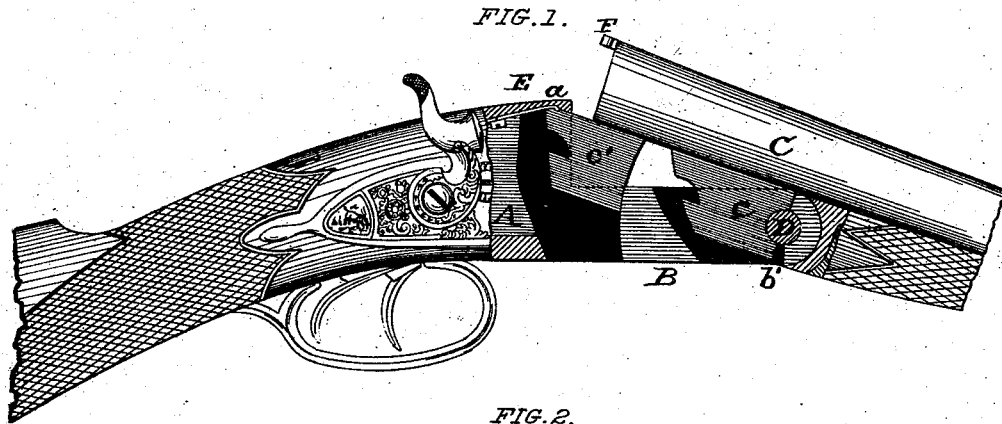


H. GOODMAN.
Breech-Loading Fire-Arm.

No. 212,459.

Patented Feb. 18, 1879.



ATTEST:

Wm. H. Knight
Walter Allen

INVENTOR:

Henry Goodman
By Wm. H. Knight & Co.
Atty's.

UNITED STATES PATENT OFFICE

HENRY GOODMAN, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF HIS
RIGHT TO DANIEL P. KANE, OF SAME PLACE.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. 212,459, dated February 18, 1879; application filed
December 5, 1878.

To all whom it may concern:

Be it known that I, HENRY GOODMAN, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Breech-Loading Fire-Arms, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

The first part of my invention consists in providing the breech end of the barrels with a stop device which shall extend directly back from and in line with the barrels, and form a part of the breech-frame, said stop resting against a top plate at the top of the breech on the barrels being tilted by the operation of a hinge of peculiar construction working in a longitudinal recess in the breech-frame.

The invention also consists in the combination, with the stop-lug and top plate, of a spring secured at one end to the under side of the top plate, and adapted to receive the impact of the stop-lug.

In the drawings, Figure 1 is a side view of the breech, showing the breech-hinge in section at *x x*, Fig. 3, the barrels being in the loading position. Fig. 2 is a similar view, showing the barrels in firing position. Fig. 3 is an under detail view, with part in section to exhibit the hinge set-screw. Fig. 4 is an end view of the breech-frame, the barrels being removed. Fig. 5 is a detail top view.

A is the breech-frame, having a portion, B, extending forward beneath the barrels C, as usual. The part B is made with a longitudinal slot or slit, *b*, to allow the hinge-ears *b'* to be sprung inward upon the hinge-lug *c* of the barrels, so as to cause the proper amount of friction in the hinge, and insure perfect accuracy in the movements of the parts when the barrels are moved from the loading to the firing position, and vice versa.

To adjust the ears *b'* as above, the pintle-pin D has a set-screw, *d*, and a head, *d'*, which bear against the outside of the ears. Thus, by the turning of the screw, the ears are adjusted.

The stop-lug *c'* is made separate from the hinge-lug *c*, so as to give a better bearing in the breech-frame, each lug fitting snugly in its proper recess, and insuring the accurate position of the barrels upon the breech-frame.

My invention does not apply to the manner of connecting the barrels and breech-frame, except as to the adjustable feature of the ears *b'* and the stop-lug *c'*, so that particular description of other parts will be superfluous.

The hinge-lug *c* may, however, as a modification of the above construction, extend back farther than the breech end of the barrels, and thus form the stop-lug, which, when the barrels are in the loading position, (shown at Fig. 1,) rests against the top plate, *a*, and limits the movement of the barrels upon the hinge *b' c D*.

I place between the plate *a* and stop lug or projection *c'* a spring, E, to ease the impingement of the stop *c'*, projecting against the plate *a*.

The purpose of the stop *c'* is to prevent the straining of the hinge *b' c D* by the falling of the barrels into loading position. Such strain is very liable to occur, and any strain or wear of the joint causes the parts to come together in an improper position, and the result is uncertainty of aim and danger to the person using the gun.

F F are tongues entering recesses in the breech-frame when the barrels reach their firing position.

I claim as my invention—

1. The stop-lug *c'* on the barrels, extending directly back of and in line with the barrels, top plate, *a*, and hinge *b' c D*, substantially as and for the purpose set forth.
2. The combination of the stop-lug *c'* on the barrels, top plate, *a*, and spring E, secured at one end to the under side of said top plate, its free end being adapted to receive the impact of the stop-lug, substantially as set forth.

HENRY GOODMAN.

Witnesses:

SAML. KNIGHT,
D. P. KANE.