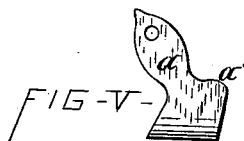
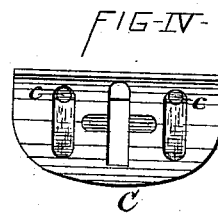
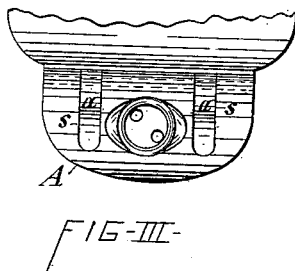
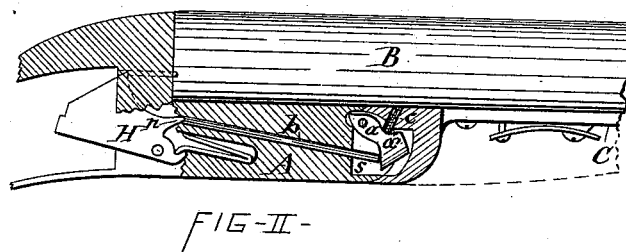
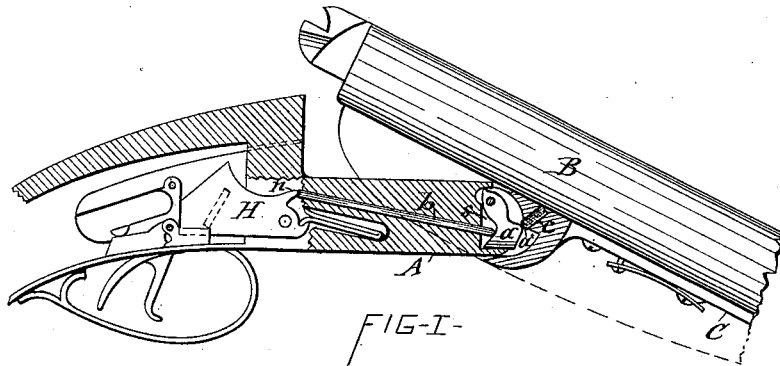


(No Model.)

D. M. LEFEVER.
BREECH LOADING FIRE ARM.

No. 343,040.

Patented June 1, 1886.



WITNESSES

W. Bendixon
F. H. Gibbs

INVENTOR:

Daniel M. Lefever
per Dull, Laessle & Co.
Attys.

UNITED STATES PATENT OFFICE.

DANIEL M. LEFEVER, OF SYRACUSE, NEW YORK.

BREECH-LOADING FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 343,040, dated June 1, 1886.

Application filed December 10, 1885. Serial No. 185,221. (No model.)

To all whom it may concern:

Be it known that I, DANIEL M. LEFEVER, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Breech-Loading Fire-Arms, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of breech-loading guns which have the hammers concealed, and are designated "hammerless guns," and in which the hammers are cocked automatically when opening the breech.

The invention consists in improved means for effecting the automatic cocking of the hammers, as hereinafter fully described, and specifically set forth in the claims.

In the accompanying drawings, Figures I and II are longitudinal sections of that part of a gun to which my invention is applied, and showing the invention in different positions. Figs. III and IV are enlarged end views of the breech-piece and fore-end strap respectively, and Fig. V is an enlarged detached side view of the lever or cam which actuates the push-bar by which the hammer is thrown in a cocked position.

Similar letters of reference indicate corresponding parts.

A represents the breech-piece, on the end of which the barrels B are hinged, and C denotes the fore-end strap by which the barrels abut against the end of the breech-piece, in the usual manner.

H represents the hammer, and *b* the rod or push-bar, which is extended longitudinally through the breech-piece, and abuts against the shoulder *n*, which is formed on the hammer above the pivot thereof, the function of said push-bar being to throw the hammer into its cocked position. The power required for that purpose I obtain by the following instrumentalities: In describing the same I will confine myself to one set of mechanism, as it is obvious that said mechanism is duplicated in a double-barreled gun. In a vertical slot, *s*, in the end of the breech-piece is situated a lever or cam, *a*, which is pivoted at its upper end either by a pin passing through it, or in any other suitable and well-known manner. The lower end of the lever *a* bears with its

back on the forward end of the push-bar *b*, which slides longitudinally in a channel extending obliquely through the breech-piece. The front of said lever is formed with a cam-face, *a'*, which projects forward from the lower portion of the lever. In the fore-end strap C is situated a lug, *c*, arranged to traverse and impinge the cam-face *a'* of the lever *a* toward the pivoted end thereof during the tilting of the barrels into their open position. Said impingement pushes the free end of the lever *a* rearward, and this in turn pushes the bar *b* also rearward, and thereby throws the hammer into a cocked position, as shown in Fig. 1 of the drawings.

In order to take up the wear on the ends of the push-bar *b* and on the lever *a*, I render the lug *c* adjustable toward said lever by providing the fore-end strap C with a screw-threaded orifice, facing the cam-face *a'* of the lever *a*, and providing the lug *c* with corresponding screw-threads. By turning said lug it can be set toward the lever *a* to compensate for the aforesaid wear.

I am aware that prior to my invention a lever has been pivoted on the fore-end strap and arranged to traverse at one end an eccentric or cam-shaped projection on the breech-piece and bear with its opposite end on the cocking push-bar. This not only differs materially from my invention in the order of things, but also is inferior to my invention, in that it throws the entire strain on the pivot of the lever, and consequently rapidly wears out, and is easily broken.

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

1. In an automatic-cocking breech-loading gun, the combination, with the fore-end strap, the hammer, and the push-bar extending longitudinally through the breech-piece, of the lever *a*, pivoted at its upper end in the end of the breech-piece and formed at the front of its lower portion with the cam-face *a'*, and bearing with the back of its free end on the forward end of the push-bar *b*, and the lug *c*, attached to the fore-end strap adjustably toward the cam-face *a'*, substantially as described and shown.

2. In combination with the hammer H and

push-bar *b*, the breech-piece *A*, provided with
the vertical slot *s*, the lever *a*, pivoted at its
upper end in said slot and formed at the front
of its lower portion with the cam-face *a'*, and
5 bearing with the back of its free end on the
forward end of the push-bar, the fore-end
strap *C*, provided with a screw-threaded ori-
fice facing the cam-face *a'*, and the lug *c*, pro-
vided with corresponding screw-threads and
10 inserted in the aforesaid orifice of the fore-end
strap, substantially as described and shown,
for the purpose set forth.

In testimony whereof I have hereunto signed
my name and affixed my seal, in the presence
of two attesting witnesses, at Syracuse, in the 15
county of Onondaga, in the State of New York,
this 8th day of December, 1885.

DANIEL M. LEFEVER. [L. S.]

Witnesses:

FREDERICK H. GIBBS,
E. C. CANNON.