

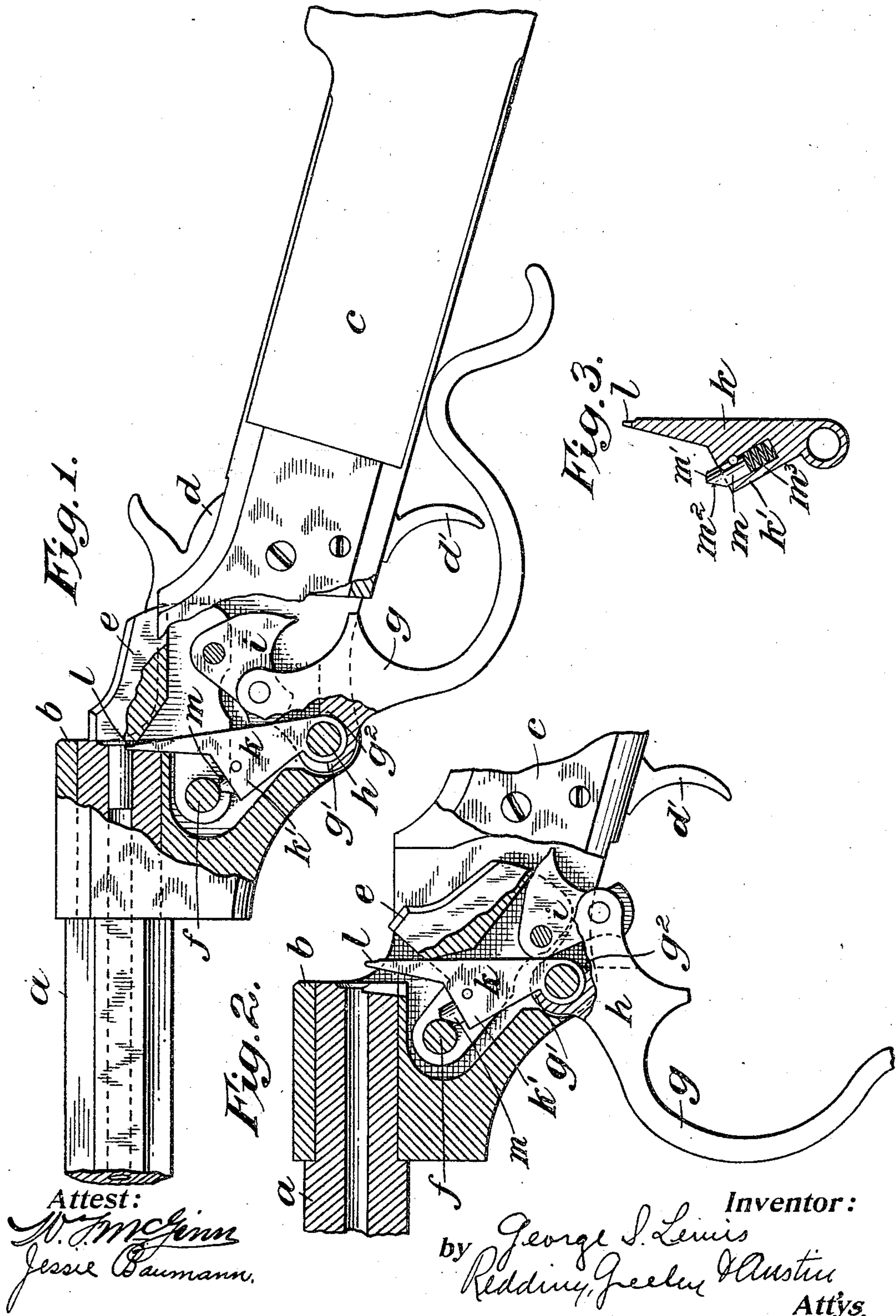
G. S. LEWIS.

FIREARM.

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939,142.

Patented Nov. 2, 1909.



Attest:

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UNITED STATES PATENT OFFICE.

GEORGE S. LEWIS, OF CHICOPEE FALLS, MASSACHUSETTS, ASSIGNOR TO J. STEVENS ARMS & TOOL COMPANY, OF CHICOPEE FALLS, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

FIREARM.

939,142.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that I, GEORGE S. LEWIS, a citizen of the United States, residing at Chicopee Falls, in the State of Massachusetts, have invented certain new and useful Improvements in Firearms, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

10 This invention has for its object to provide an improved cartridge ejector for breech-loading single shot fire arms, by which the empty cartridge shall be ejected with certainty and quickly when the breech
15 is opened.

The invention will be more fully explained hereinafter with reference to the accompanying drawing, in which it is illustrated and in which—

20 Figure 1 is a view, partly in side elevation and partly in longitudinal section, of so much of a breech-loading rifle as is necessary to enable the application of the invention to be understood. Fig. 2 is a similar view,
25 but showing the breech open. Fig. 3 is a detailed view of the ejector.

The invention is illustrated in the drawing as applied to a single shot breech-loading rifle of ordinary construction comprising
30 a barrel *a*, a frame or receiver *b*, and a stock *c*, with firing mechanism sufficiently indicated by the hammer *d* and trigger *d'*. These parts, together with the breech block
35 *e*, pivoted on a screw *f*, the guard lever *g*, pivoted on a screw *h*, and the link *i*, between the guard lever and the breech block, are constructed and operate as usual in rifles of the character of that shown.

The ejector *k* is pivoted as usual upon
40 the screw or pin *h* on which the guard lever *g* is pivoted, and is formed at its upper end as at *l* to engage the rim of the cartridge as it stands in the chamber of the barrel, the upper portion of the ejector lying in a
45 recess formed therefor in the breech below the cartridge chamber, also as usual. This ejector is also actuated in the usual manner, a shoulder *g'* on the hub of the guard lever
50 *g* turning the ejector back to withdraw the cartridge when the guard lever is thrown down from the position shown in Fig. 1 to the position shown in Fig. 2. This operation of the ejector, however, is comparatively slow, being dependent upon the movement of the guard lever by the hand of the

user. Such operation of the ejector, therefore, merely withdraws the empty cartridge slowly from the chamber of the barrel, not throwing it backward clear of the receiver or frame of the gun, but leaving it partly
60 engaged in the chamber of the barrel so that the user must complete its removal with the fingers of his disengaged hand. In accordance with the present invention, the ejector
65 is made to snap back with a quick motion so as to withdraw the empty cartridge completely from the chamber of the barrel and throw it backward clear of the frame. To this end the ejector is provided with an enlargement *k'*, in which is seated a spring-
70 pressed plunger *m* which has its projecting end beveled off, with a locking face *m'* on the upper side and a cam face *m²* on the lower side. This spring-seated plunger is
75 so placed and arranged as to coöperate with a convenient fixed part of the frame or receiver, such as the pin or screw *f* above referred to.

When the breech is closed and the ejector is in its inoperative position, the locking
80 face *m'* of the plunger bears against the under side of the locking abutment or pin or screw *f* so as to hold the ejector in its inoperative position. As the guard lever *g* is
85 thrown down and forward to its extreme position, the shoulder *g'* moves the ejector backward until the edge between the two faces *m'* and *m²* of the plunger passes the line joining the centers of the pins or screws
90 *f* and *h* and the plunger *m* is then driven forward by the spring *m³* on which it is seated, so that the cam face *m²* co-acts with the fixed abutment or pin *f* to throw the
95 ejector quickly backward through the remainder of its travel. The spring *m³* being sufficiently stiff, this action of the ejector throws the empty cartridge quickly out of the chamber backward clear of the frame or receiver. The return of the ejector to normal position is effected in a similar manner
100 through the action of the shoulder *g²* of the guard lever *g*, the locking face *m'* of the plunger coöperating with the abutment *f* to hold the ejector in normal position after it has returned thereto.

I claim as my invention.

1. The combination with a barrel and a frame, of an ejector, means to actuate the ejector by hand and a spring-pressed plunger and abutment carried the one by the
110

ejector and the other by the frame and co-acting to effect a quick movement of the ejector after it has been moved by hand to a determined extent.

5 2. The combination with a barrel and a frame, a pivoted ejector and guard lever coöperating with the ejector to move the same, a spring-pressed plunger and abutment, the one being carried by the ejector
10 and the other by the frame and co-acting to effect a quick movement of the ejector after it has been moved by the guard lever to a determined extent.

3. The combination with a barrel and a
15 frame of a pivoted ejector, a spring-pressed plunger carried by the ejector and having a cam-face, an abutment with which said plunger co-acts to effect a quick movement of the ejector after it has been moved to a
20 determined extent, and means to effect an initial movement of the ejector.

4. The combination with a barrel and a frame, of a pivoted ejector, a spring-pressed

plunger carried by the ejector and having a cam-face, an abutment with which said plun- 25
ger co-acts to effect a quick movement of the ejector after it has been moved to a determined extent, and a guard lever coöperating with the ejector to effect the initial move-
ment thereof. 30

5. The combination of a barrel, a frame, a pivoted breech-block, a pivoted guard lever connected with the breech block, an ejector pivoted on the same pivot with the guard lever and receiving its initial move- 35
ment from the guard lever, and a spring pressed plunger carried by the ejector and having a cam-face to coöperate with the pivot pin of the breech-block.

This specification signed and witnessed 40
this 11th day of August, A. D., 1909.

GEORGE S. LEWIS.

Signed in the presence of—

EMIL C. FINK,
F. L. MORRISON.