

Patented Feb. 22, 1887.

Fig. 1.

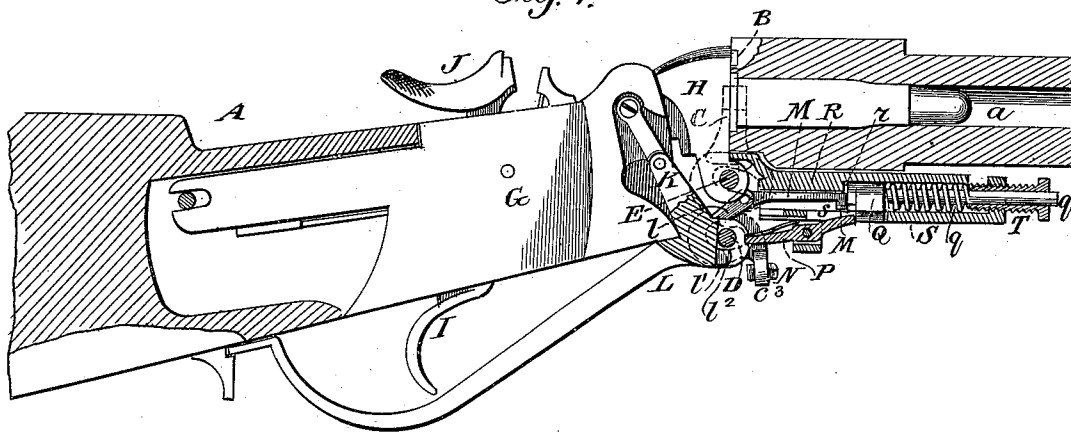


Fig. 2.

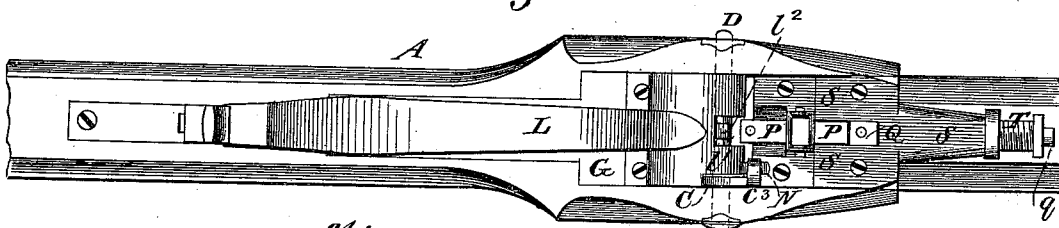


Fig. 3.

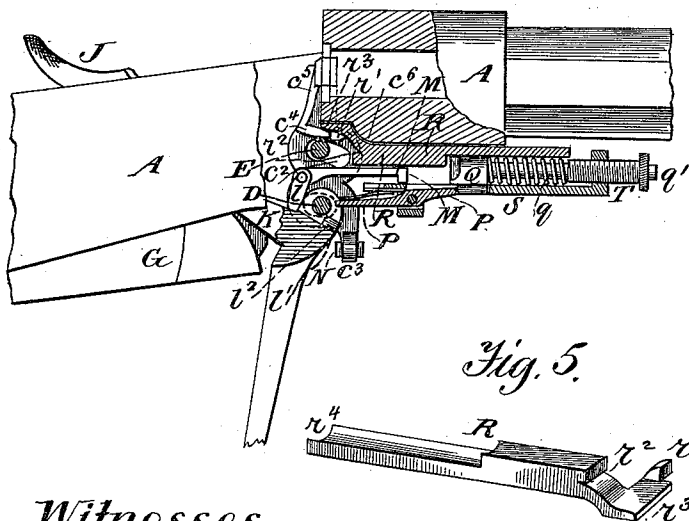


Fig. 5.

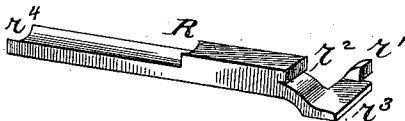


Fig. 4.

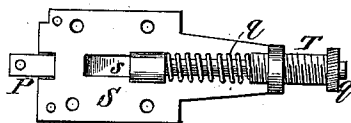
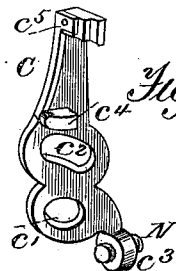


Fig. 6.



Witnesses.
A. Ruppert.
J. Mawdsley.

Inventor:
John W. Redfield,
Per
Thomas P. Simpson,
attys,

UNITED STATES PATENT OFFICE.

JOHN WATROUS REDFIELD, OF GLENDALE, OREGON.

FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 358,071, dated February 22, 1887.

Application filed November 17, 1886. Serial No. 219,132. (No model.)

To all whom it may concern:

Be it known that I, JOHN WATROUS REDFIELD, a citizen of the United States, residing at Glendale, in the county of Douglas and State of Oregon, have invented certain new and useful Improvements in Fire - Arms; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The special object of the invention is to retract and throw out the spent cartridge by the means substantially as hereinafter described.

Figure 1 of the drawings is a longitudinal vertical section of a breech-loading fire-arm, showing my invention. Fig. 2 is a bottom view. Fig. 3 is a similar view to that of Fig. 1, except in the position of the lever; and Figs. 4, 5, and 6 are detail views.

In the drawings, A represents the fire-arm stock, and A' the barrel, having the usual chamber, *a*, into which the cartridge is placed, and B a top-fastened spring, which throws back the cartridge-block H, and is located in a vertical groove of the stock. In a vertical groove of the barrel A' is placed the extractor C, with its side lip, which comes in front of the end flange of the cartridge, so as to draw it out when the upper part of the extractor is thrown back.

D E are bolts which pass through the stock A, the bolt D passing through hole *c'* and the bolt E through the cross-slot *c''*. At right angles to the outer end of bolt D is a plate-spring, which turns with said bolt.

G is the breech-block support; I, the trigger, and J the hammer; H, the breech-block, and K the toggle.

The parts above specified are more particularly described in the contemporaneous application No. 212,825, filed September 6, 1886, and form no part of the invention claimed in the present one.

L is the lever, which is pivoted on the bolt D beside the extractor, and is provided with the stud *l*, to whose upper end is pivoted the arm M. As the lever L is carried forward its

shoulder *l'* strikes the screw N in the projection *c'* at the lower end of extractor, so as to loosen the cartridge. As it proceeds, the shoulder *l'*, or adjustable screw *l'*, strikes the downwardly spring-pressed end of the lever P, the arm M is drawn back, the front arm of lever P is depressed, and the spring-actuated plunger Q forces back the slide R against the extractor with a quick movement that throws out the spent cartridge. The plunger Q strikes against the shoulder *r* of the slide after the arm M has dropped in the slot *s* of the plate S, which also has a nut, *s'*. In the latter works the hollow thumb-screw T, which regulates the tension of the spring *q*, that is coiled about its stem *q'*.

On the extractor C, just above the cross-slot, is arranged the stud *c'*, which is struck by the end stud, *r'*, on the slide R. In order to take up the sudden shock of the impact, I do not make the stud *c'* integral with the extractor, but connect it therewith by the spring *c''*. The slide R has a lip, *r''*, which enters a socket or groove, *c''*, in the extractor; but this construction is not absolutely necessary. It may also have a projection, *r'''*, and a concavity, *r''''*, to fit over the plunger Q and spring *q*.

Having thus described all that is necessary to a full understanding of my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. In a breech-loading fire-arm, the combination of the extractor C and lever L, pivoted on the same bolt, D, the screw N in a projection at the lower end of the extractor, the arm M, pivoted to a stud, *l*, of the lever and actuated by a shoulder, *l'*, thereof, the lever P, acted upon by said shoulder to depress it, the slide R, and the plunger Q, the latter adapted to force said slide back, as and for the purpose described.

2. In a breech-loading fire-arm, the combination, with a guard-lever, L, and a plunger, Q, of the slide R, having the shoulder *r*, the spring *q*, arranged on the stem *q'* to force the slide against said shoulder, the plate S, carrying a vertical nut, and the hollow screw T, working in said nut and over said stem, as shown and described.

3. In a fire-arm, the guard-lever L, having the shoulder *l'*, in combination with a cartridge-extractor provided with the screw N in

a projection, c^3 , at its lower end, the shoulder being arranged to strike the screw for the purpose of loosening the spent cartridge, as described.

5 4. The combination, in a fire-arm, with the spring-held lever P, pivoted arm M, and the slotted plate S, of a guard-lever carrying said pivoted arm on its stud l and having a screw
10 or shoulder, l^2 , which strikes the spring-held end of said lever P, whereby said arm M and lever P may be operated, in the manner described.

5 5. In a fire-arm, the combination of the spring-actuated plunger Q with a slide, R, having the shoulder r , the arm M, pivoted to a
15 stud of the guard-lever, the lever P, and the slotted plate S, the plunger being arranged to

strike the shoulder and force the slide against the extractor with sufficient suddenness and power to throw out the spent cartridge, in the 20 manner set forth.

6. The cartridge-extractor of a breech-loading fire-arm having the stud c^4 connected therewith by an intermediate spring, c^5 , in combination with a spring-actuated plunger and 25 shouldered slide to strike said stud, and means connected with the guard-lever to trip the striking mechanism, for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN WATROUS REDFIELD.

Witnesses:

DOUGLAS LEVENS,

SAMUEL H. REDFIELD.