(No Model.)

J. S. PATTERSON.

FIRE ARM LOCK.

No. 346,941. Patented Aug. 10, 1886.

Fig. 1.

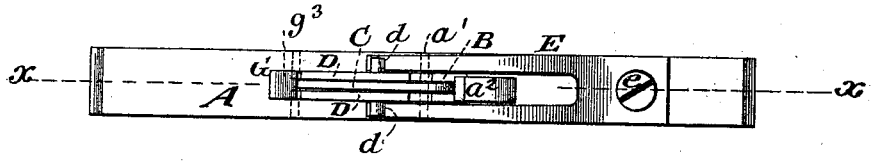


Fig. 2.

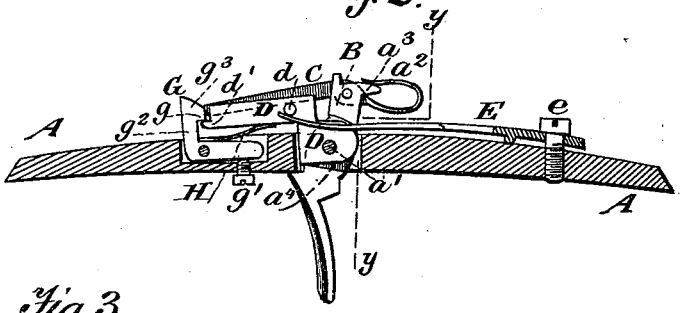


Fig. 3.

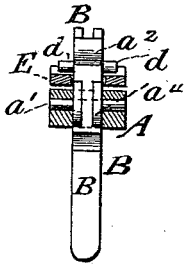
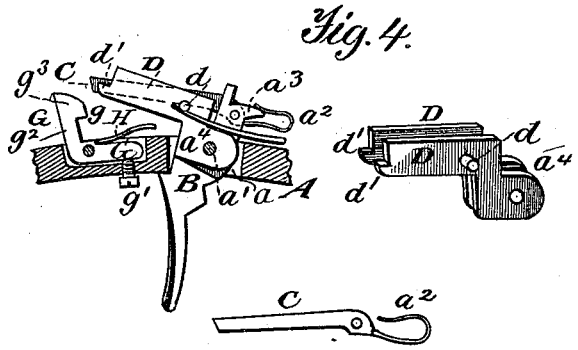


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

JAMES S. PATTERSON, OF JUNIATA COUNTY, ASSIGNOR OF ONE-HALF TO S. P. WHARTON, OF PHILADELPHIA, PENNSYLVANIA.

FIRE-ARM LOCK.

SPECIFICATION forming part of Letters Patent No. 346,941, dated August 10, 1886.

Application filed April 5, 1886. Serial No. 197,836. (No model.)

To all whom it may concern:

Be it known that I, JAMES S. PATTERSON, a citizen of the United States, residing in the county of Juniata and State of Pennsylvania, have invented certain new and useful Improvements in Fire-Arm Locks; 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 so combine the lock mechanism of a rifle or other fire-arm that a single trigger will both cock and uncock the hammer, as hereinafter described, or set the trigger and discharge the fire-arm, as set forth.

Figure 1 of the drawings is a plan view of my lock mechanism; Fig. 2, a longitudinal section on line *x x* of Fig. 1; Fig. 3, a cross-section on line *y y* of Fig. 2, and Fig. 4 a group of detail views.

In the drawings, A represents the base-plate of the lock, having the oblong slot *a*, across which is placed the pivot *a'*. On the latter turns the trigger-lever B, which is held forward at the lower end by the spring a^2, fastened on the under side of the short arm of a push-lever, C. This lever is fulcrumed between the upper bifurcations or prongs of the trigger, while the spring a^2 is turned over and made to bear upon the rear extension, a^3, of the trigger-lever.

D is a latch-lever, which is bifurcated at the lower end, and is made to straddle the trigger at the part a^4, and is fulcrumed on the same pivot, *a'*, as the trigger. It is provided with side studs, *d d*, which rest on the arms of an upwardly-pressing spring, E, fastened by screw *e* to the plate A, and is longitudinally grooved to receive the push-lever C. It is also provided with a rabbet or lip, *d'*, which couples with a shoulder, *g*, on the catch-lever G. The latter is pivoted at or near its elbow, while the long arm rests on a set-screw, *g'*, to regulate the distance to which it may tip forward in the direction of the latch. The catch-lever G has above its long arm an auxiliary arm, g^2, by means of which the catch is thrown forward when pressed by the catch-lever D. H is a spring on which is supported the front end of the latch-lever D, and which is itself fastened at one end to the catch-lever G.

The operation is as follows: When the trigger is pulled, the latch-lever D is forced down on the catch-arm g^2, which, as soon as the latch-lip *d'* is low enough, causes the shoulder *g* to catch over it when the fire-arm is cocked. In order to uncock or fire the piece, the trigger is again pulled, and carries the push-lever against the catch, so as to press it off the latch, which is then thrown up by the plate-spring E. It will be perceived that the catch-lever has an inclined head, g^3, which allows the lever C to rise on the first pull of the trigger, so as not to interfere with the cocking operation, but when the pressure on the trigger ceases after the cocking the push-lever is brought down by the spring a^2 to the bottom of the groove of the latch-lever, so as to push against the catch at the second pull of the trigger.

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

In a fire-arm lock, the combination, with the base A, having longitudinal slot *a* and cross-pivot *a'*, of a trigger, B, having the rear extension, a^3, the push-lever C, fulcrumed between upper bifurcations of said trigger, the spring a^2, fastened at one end under a short rear arm of said push-lever and turned over to bear upon said trigger-extension, the longitudinally-grooved latch-lever D, bifurcated to straddle the trigger part a^4, fulcrumed on pivot *a'*, having side studs, *d d*, and provided with lip *d'*, the bifurcated upwardly-pressing spring E, fastened by screw *e* at its rear end to plate A, and supporting the studs *d d*, the angle-lever G, pivoted at or near its vertex, having shoulder *g*, arm g^2, and incline g^3, and the spring H, attached near the vertex of lever G and supporting the front end of the latch-lever D, as and for the purpose described.

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

JAMES S. PATTERSON.

Witnesses:
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