(No Model.)

R. M. AUGHENBAUGH & G. E. RUFFLEY.

MAGAZINE FIRE ARM.

No. 381,821. Patented Apr. 24, 1888.

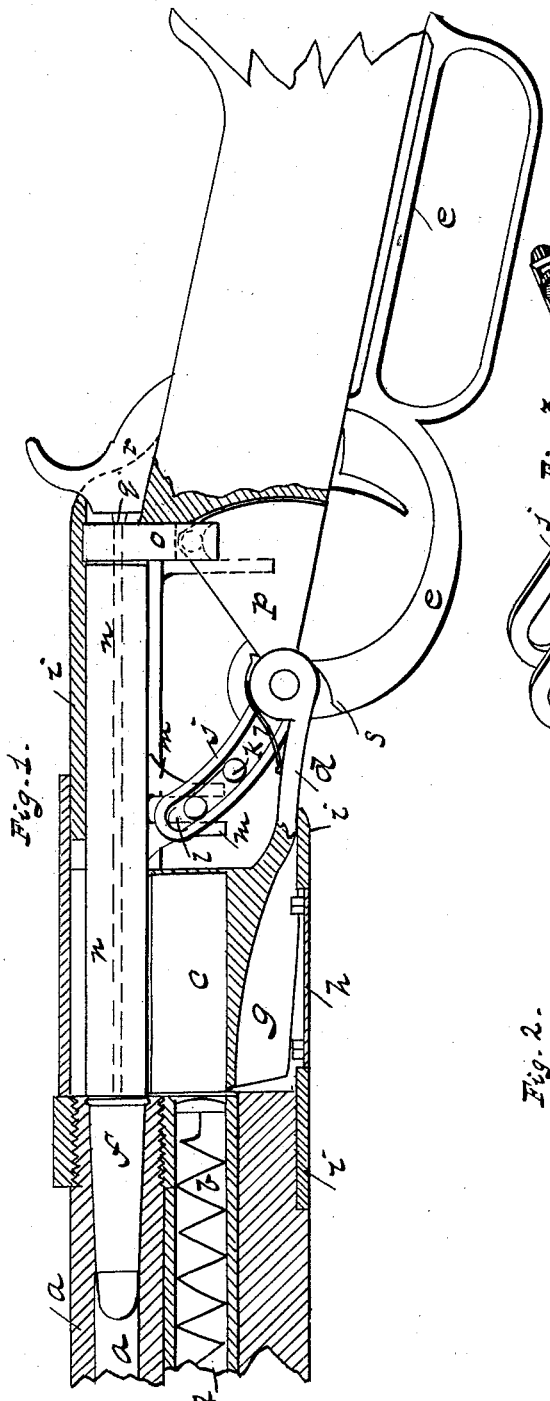

Fig. 1.

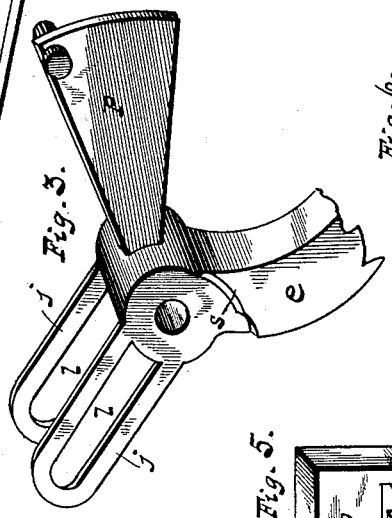

Fig. 3.

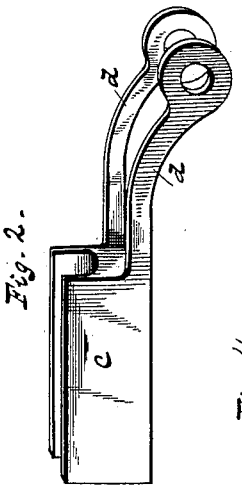

Fig. 2.

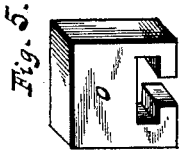

Fig. 5.

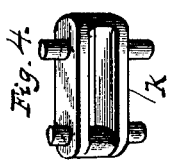

Fig. 4.

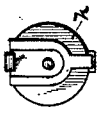

Fig. 7.

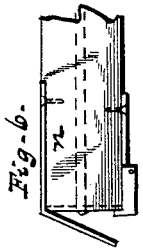

Fig. 6.

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UNITED STATES PATENT OFFICE.

ROBERT M. AUGHENBAUGH AND GEORGE E. RUFFLEY, OF GLENFIELD, PENNSYLVANIA.

MAGAZINE FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 381,821, dated April 24, 1888.

Application filed April 14, 1887. Serial No. 234,846. (No model.)

To all whom it may concern:

Be it known that we, ROBERT M. AUGHENBAUGH and GEORGE E. RUFFLEY, citizens of the United States, residing at Glenfield, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Magazine Fire-Arms; and we do hereby 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Our invention relates to an improvement in magazine fire-arms, the object being to provide a fire-arm of simple and durable construction that will be reliable and accurate in loading and extracting the empty shell; and with these ends in view our invention consists in the peculiar construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a sectional elevation of our improved fire-arm constructed in accordance with our invention. Fig. 2 is a perspective view of the carrier-block. Fig. 3 is a detailed perspective view of the operating links and lever. Fig. 4 is a perspective view of the sliding compensating block. Fig. 5 is a perspective view of the breech-block. Fig. 6 is a side elevation of the extractor and ejector. Fig. 7 is an end view of the same.

To put our invention into practice with an ordinary fire-arm consisting of the barrel *a*, the magazine *b*, and other well-known parts, we provide a carrying-block, *c*, consisting of a slotted or recessed block having two arms, *d*, projecting toward the rear, and attached to the operating-lever *e* for the purpose of receiving the cartridge *f* from the magazine *b*, and conveying the same to the breech of the barrel *a*.

On the under side of the carrying-block *c* is formed a deep groove, *g*, whereby the cartridges *f* may be introduced into the magazine *b* through a hinged door, *h*, on the under side of the frame *i*. Attached to the operating-lever *e* are two segmental slotted arms, *j*, placed the one above the other, which operate a sliding piece, *k*, placed in the slot *l* of the same. This sliding piece *k* is loosely attached between two downwardly-projecting arms, *m*, rigidly secured to the breech-block *n*. At the rear of the breech-block *n* is a vertically-sliding block, *o*, actuated by a fan-shaped plate, *p*, attached to the operating-lever *e*. At the upper extremity of this vertically-sliding block *o* is provided a continuation of the firing-pin *q*, which, in conjunction with that in the breech-block *n*, affords a means of exploding the cartridge.

In operation, a cartridge from the magazine *b* is pushed into the carrying-block *c*. The operating-lever *e* is moved forward, which action, by means of the plate *t*, removes the block *o* from behind the breech-rod *n*, and detaches itself therefrom. The lever *e*, still moving forward, pushes the breech-rod *n* back, thereby raising the hammer *l*². By this time the arms *d* of the carrying-block *c* are brought in contact with an elevated portion, *s*, on the butt of the lever *e*, which elevates the point of the cartridge *f* to the breech of the barrel *a*. This ends the forward stroke of the lever *e*. The same is now revolved back, which action moves the breech-block *n* first, thus forcing the cartridge *f* into the barrel *a*, the carrying-block *c* dropping back to its original position, where it immediately receives another cartridge from the magazine *b*. At the latter part of the return-stroke of the lever *e* the same engages with the vertically-sliding block *o*, carrying the same into position behind the breech-rod *n*.

It will be observed that the parts *j* and *p* are formed integral with the operating-lever *e*, and that the channeled carrying-block *c*, while it articulates about the same axis as said parts *e j p*, has a movement independent thereof.

Having thus described our invention, we claim—

1. In a magazine fire-arm such as described, the combination of the operating-lever *e*, slotted arms *j j*, and segmental plate *p*, formed integral, the carrier-block *c*, with the arms pivoted on the same fulcrum as the lever, the actuating-shoulder *s* on the lever *e* for operating the same, the breech-bolt *n*, engaged and operated by the arms *j j*, and the sliding block *o*, engaging the plate *p*, and thereby

moved into locking engagement with the bolt, substantially as specified.

2. The combination, with the pivoted carrier-block and a pivoted lever, *e*, provided with slotted arms *j*, and a segment, *p*, of the sliding block *o*, between the hammer and breech-pin, engaged and operated by the segment *p*, the arms *m* on this breech-pin, and the block *k*, engaging such arms, and the slotted arms *j j*, all adapted to operate as described.

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