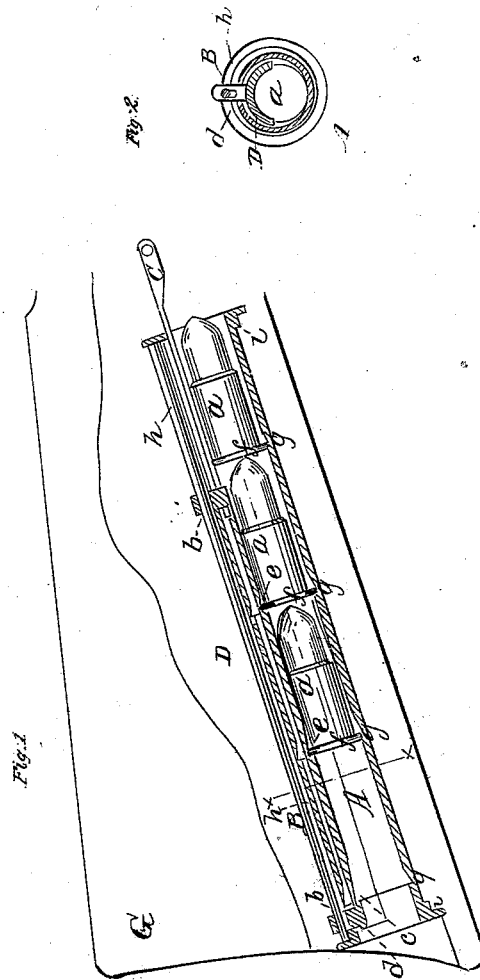


V. FOGERTY.
Magazine Gun.

No. 46,459.

Patented Feb 21, 1865.



Witnesses
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UNITED STATES PATENT OFFICE.

VALENTINE FOGERTY, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. 46,459, dated February 21, 1865.

To all whom it may concern:

Be it known that I, VALENTINE FOGERTY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents my invention, supposed to be in position in the stock of a gun. Fig. 2 is a sectional view thereof on the transverse line *x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention consists in certain improvements in the class of fire-arms known as "magazine-guns," in which the cartridges are moved up to and delivered at or into the breech of the piece automatically in regular succession.

The cartridge to which I have adapted my invention in this example thereof is the flanged metallic-case cartridge. I have not shown those parts of a fire-arm by which the cartridges are successively impelled or drawn forward toward the barrel of the gun, as my invention consists in the magazine and its operating parts.

G is supposed to be the stock of a gun, having a chamber or cavity in its under side to receive a magazine, A, which consists of a hollow cylinder, open at both ends, its ends having flanges *i*, by which it can be secured in place in the stock, and its end nearest the butt of the gun being accessible by means of a hinged cover or door, (not shown,) forming part of the butt, or in any other convenient way. A rod, B, is fixed on the outside of the cylinder, its ends being firmly secured in the flanges *i i*.

The magazine A is to be so placed in the stock as that the side to which the rod B is attached shall be uppermost. Immediately beneath the rod B are two slots, *h h*, cut through the upper side of the magazine, each beginning near to the flanges *i i*, and extending toward each other less than one-third of the length of the magazine.

A curved sliding rack, D, is supported upon the rod B, so as to move to and fro within the

magazine, by means of ears *d d*, one at each of its ends, which project upward through the slots *h* of the magazine, and hang upon the rod B, which passes through holes *b b* made through them. The holes *b b* are of greater depth than the diameter of the rod, so that the ears *d* and the rack D may have vertical play on the rod as well as a longitudinal sliding motion. The length of the rack is such as to extend from the rear of one slot *h* to the rear of the other.

A connecting-rod, C, extends from the front end of the rack toward the place of the breech of the gun, to furnish a means of connecting the operating devices of the gun with the magazine; but as my invention does not embrace such devices or their connections, I have not shown them.

The sectional view, Fig. 2, shows the outline of the rack in transverse section, and also its position in the magazine, and one of its ears *d*. The rack is grooved transversely on its interior face at suitable intervals, as shown at *e*, to receive the flanges *f* of the metallic cartridges *a*, its length being, in this illustration, such as to answer for three cartridges. Like grooves, lettered *g*, are cut in the interior of the magazine at suitable intervals, so that when the rack D is at the commencement or the end of its reciprocation the flanges *f* of the cartridges will articulate both with the grooves *e* of the rack and the grooves *g* of the magazine. The grooves *e* and *g* are beveled in the direction in which the cartridges are fed, but have straight sides in the other direction. The movement of the rack in the slots *h* is intended to be equal to the length of one of the cartridges, and the diameter of the magazine is to be sufficient to receive a cartridge between its lower interior face and the face of the rack.

The operation of the devices is as follows: A cartridge, *a*, having been introduced through the butt of the gun into the magazine, its flange will fall into the grooves *g* and *e*. If the rack is now moved forward the full distance permitted by the slots *h*, it is evident that the flange of the cartridge will be raised out of the hinder groove, *g*, and the cartridge be carried forward until its flange falls into the second groove, at which time the rack has reached the limit of its movement. In order

to advance the cartridge another step in the magazine, the rack is to be returned to the place it started from. When this return movement is made the rack slides upon and over the flange of the cartridge, the depth of the slots *b b* of the ears *d* allowing the rack to be raised vertically during its backward motion, and until its groove or grooves articulate again with the flange or flanges of the cartridge. The rack is then ready for another forward movement, which will carry the cartridge along within the magazine to the next succeeding groove *g*, and so on until it is delivered at that end of the magazine which is next to the barrel of the gun.

The magazine here shown as an example of my invention is arranged to contain four cartridges at the same time. The length of the magazine will, of course, be determined by the

length of the stock of the gun in which it is placed, and its diameter by the size of the cartridge used.

I claim as new, and desire to secure by Letters Patent—

1. The reciprocating grooved rack *D*, suspended by ears *d* from a bar, *B*, and actuated by a rod, *C*, the said rack operating, in combination with the grooved magazine *A g*, to forward the cartridges *a a*, as herein described.

2. In combination with the above, I further claim the elongated holes *b* in the ears *d*, to permit the vertical or lateral motion of the rack, as and for the object specified.

VALENTINE FOGERTY.

Witnesses:

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