J. SHUSTER.

Magazine for Fire-Arms.

No. 211,674. Patented Jan. 28, 1879.

Fig. 1.

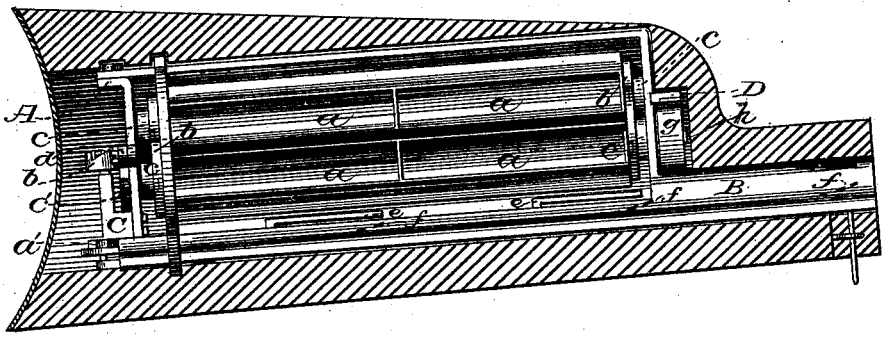


Fig. 2.

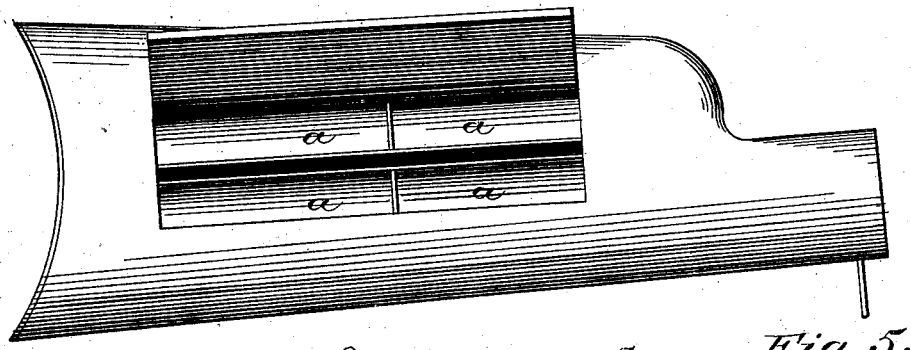


Fig. 3.

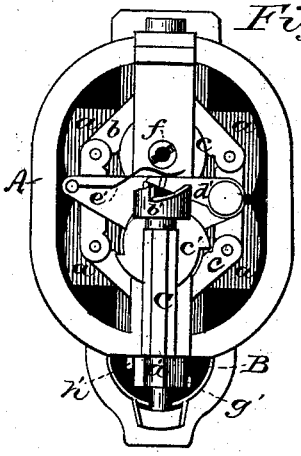


Fig. 4.

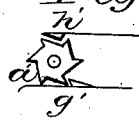


Fig. 5.

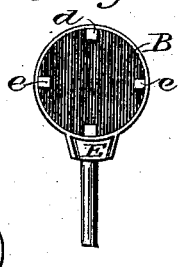


Fig. 6.

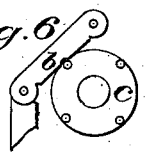
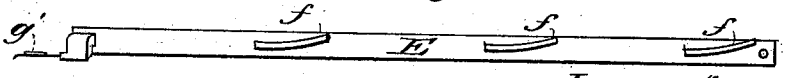


Fig. 8.

Fig. 7.



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UNITED STATES PATENT OFFICE.

JOHN SHUSTER, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN MAGAZINES FOR FIRE-ARMS.

Specification forming part of Letters Patent No. **211,674**, dated January 28, 1879; application filed August 31, 1878.

To all whom it may concern:

Be it known that I, JOHN SHUSTER, of the city and county of New Haven, and State of Connecticut, have invented a new and useful Improvement in Magazines for Fire-Arms, of which the following is a description:

Figure 1 represents a section of stock with mechanism exposed; Fig. 2, a view of stock with open lid, showing place of loading and compartments; Fig. 3, a vertical end section of magazine and mechanism; Fig. 4, ratchet-wheel with section of sliding bar with pallet and click; Fig. 5, vertical end section of cartridge-tube, showing retaining spring-fingers; Fig. 6, sprocket-wheel and section of chain-gear; Fig. 7, sliding bar; Fig. 8, pawl.

In the frame-work A are suitable bearings for the journals, on which magazine *a* revolves. To this frame are also connected the cartridge-tube B and the supports and bearings C and D.

The magazine A consists of six chambers nearly semi-cylindrical in shape, and so divided as to form twelve compartments capable of holding twelve ninety-grain cartridges. This magazine is connected by journals with a chain-gear, *b*, said gear and magazine being carried by sprocket-wheels *c*, and, as shown in Fig. 3, is nearly elliptical in general outline. By constructing the magazine in this manner the form is similar to the stock of the arm, thereby securing great capacity with compactness. The tube B holds two ninety-grain cartridges. Arranged on the inner sides of said tube are shown spring-fingers *d* and *e*, which retain the cartridges in place. These fingers permit the sliding bar E to move forward from the butt of the arm with cartridges, and hold said cartridges in place when the sliding bar is moved in a reverse direction. The sliding bar E has spring-fingers *f*, that engage with the cartridges as they drop into the tube B, and by which said cartridges are carried forward.

The motive power of the magazine *a* is an expanding coiled spring, (shown at *g*, Fig. 1,) one end of which is made fast to a support connected with frame A, and the other end to the journal *h*, which revolves when the spring is released.

At *a'* is shown a ratchet-wheel with six teeth, at *b'* a ratchet-wheel with three teeth, and at *c'* a ratchet-wheel having four teeth. A pawl, *d'*, engages with the teeth of the ratchet-wheels *b'* and *c'*, and is held in place by spring *e'*. At *f'* is shown a key-hole, where magazine is wound up. At *g'* is shown a pallet attached to sliding bar E, that engages with teeth of ratchet-wheel *a'*, and at *h'* a pawl or click for preventing ratchet-wheel from revolving in a backward direction.

To operate magazine, the spring being wound up, the sliding bar E is carried toward the butt of the arm as far as it will go. A second like motion releases the pawl *d'* from the ratchet *c'*, permitting the magazine *a* to make one-sixth of a revolution, and also empties the tube B and drops two cartridges into it. This operation is repeated until all the cartridges are discharged from the magazine.

To reload, open the lid in the stock (shown at Fig. 2) and drop in the cartridges while the magazine is being revolved by means of the key. If it be desirable to use smaller cartridges the capacity of my magazine can be doubled—that is to say, twenty-eight cartridges may be used by doubling the number of teeth on ratchet-wheel *a'*, the spring-fingers *f* on sliding bar E, and the retaining spring-fingers *e* on tube B.

Having thus described my invention, what I claim as new is—

1. The magazine *a*, in combination with the chain-gear *b*, sprocket-wheels *c*, and spring *g*, all substantially as set forth and described.

2. The ratchet-wheels *a' b' c'*, the sprocket-wheels *c*, chain-gear *b*, pawl *d'*, and spring *g*, in combination with sliding bar E, all substantially as set forth and described.

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Witnesses:

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