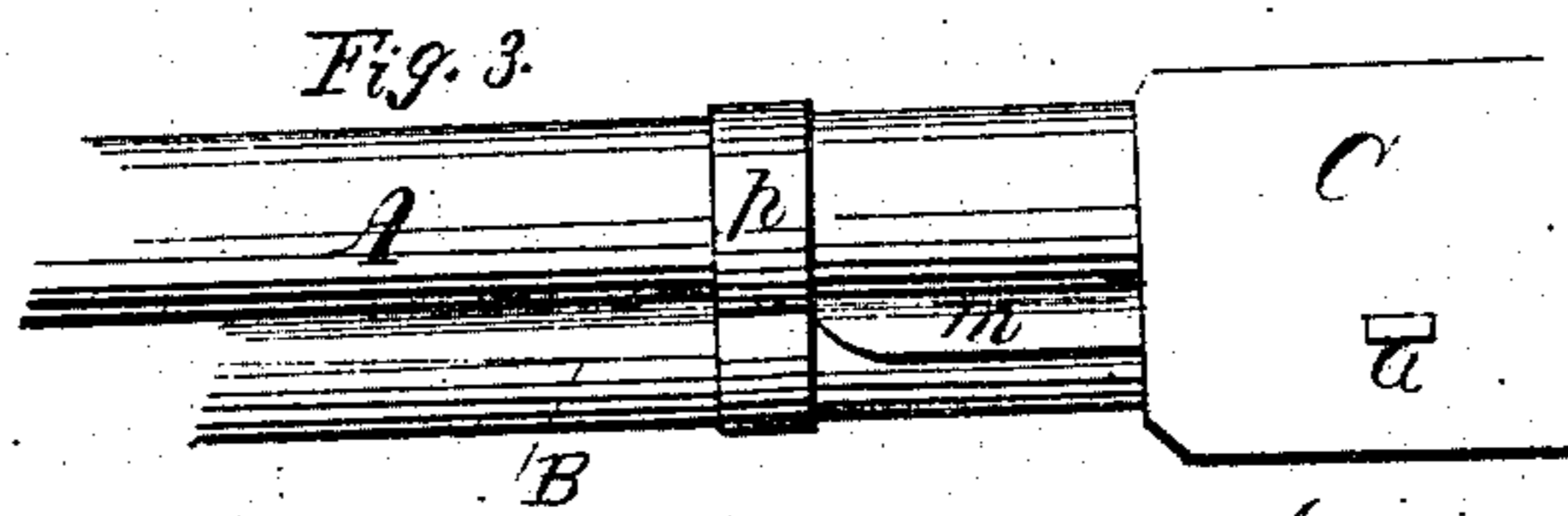
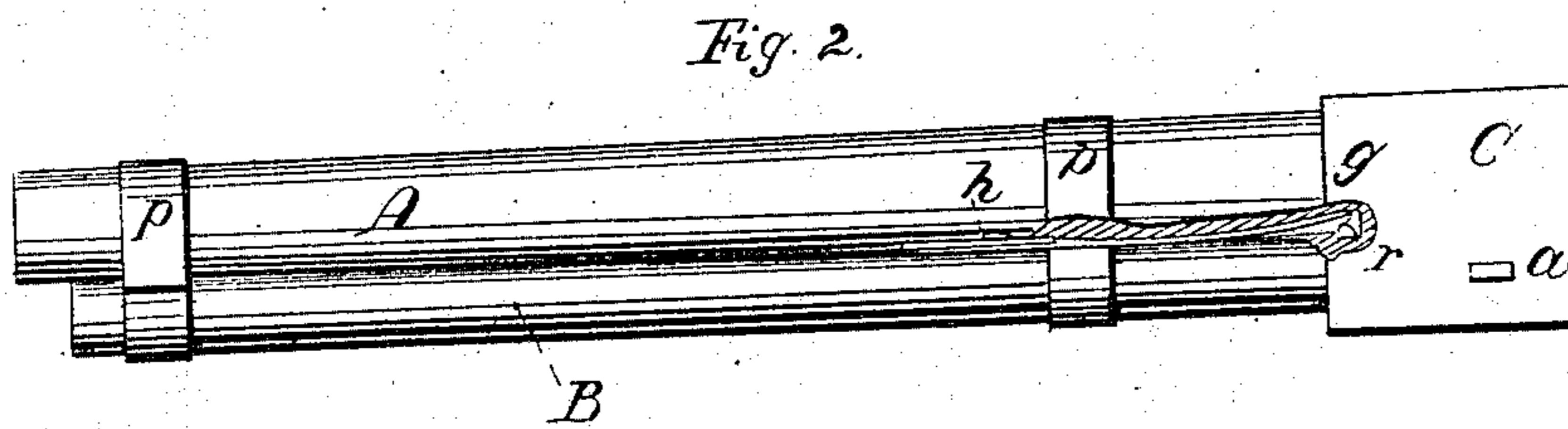
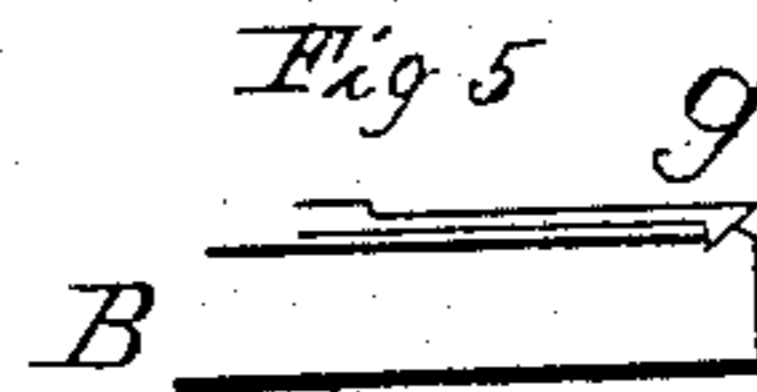
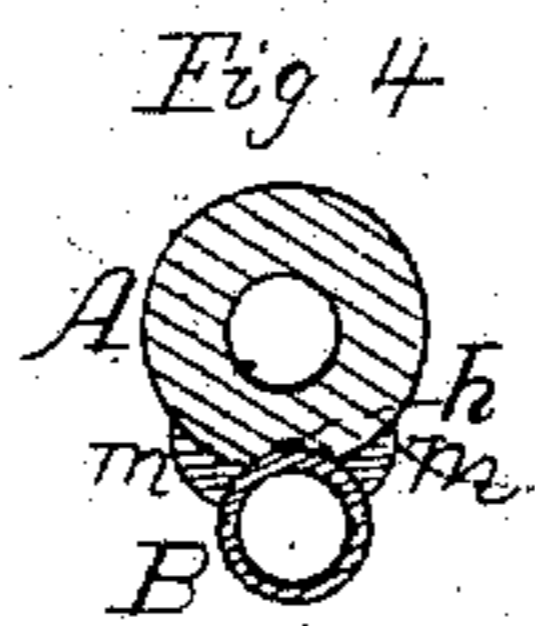
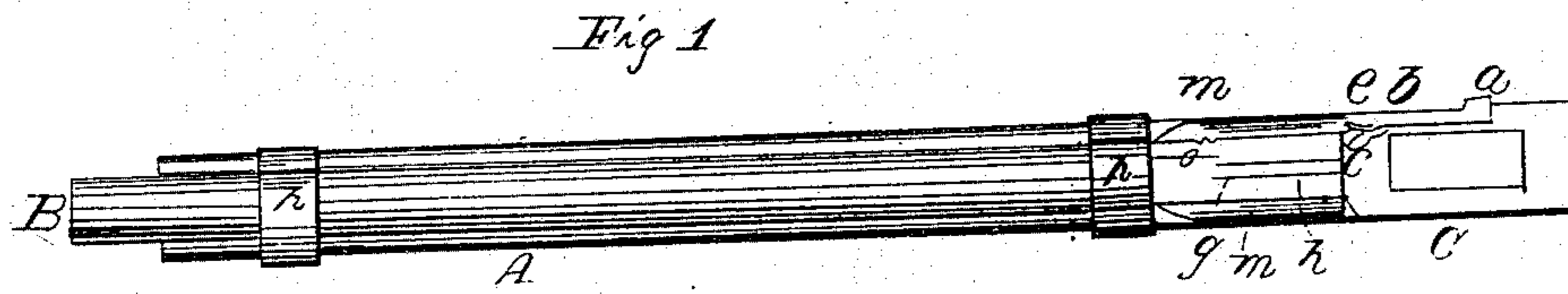


W. C. DODGE.  
Magazine Gun.

No. 58,790.

Patented Oct. 16, 1866.



Witnesses  
Thos. S. Gardner  
P. Sell Dodge

Inventor  
W. C. Dodge



# UNITED STATES PATENT OFFICE.

WILLIAM C. DODGE, OF WASHINGTON, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. 58,790, dated October 16, 1866.

*To all whom it may concern:*

Be it known that I, WILLIAM C. DODGE, of Washington city, in the District of Columbia, have invented certain new and useful Improvements in Magazine-Guns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a plan view of the under side of the barrel and magazine, with the latter shown open. Fig. 2 is a side view of the same with a portion broken away to show the internal arrangement of the parts. Fig. 3 is a side elevation of a portion of the same. Fig. 4 is a transverse section taken on the line *xx* of Fig. 2, and Fig. 5 is a longitudinal vertical section of a portion of the magazine tube and spring.

Similar letters in each of the figures indicate the same parts.

My invention has for its object the constructing of a magazine for containing the cartridges in a simple and cheap manner, and with as few pieces as possible; and consists in arranging the tube that forms the magazine so that it can be shoved forward far enough to permit the cartridges to be entered at its rear end, in connection with a spring for holding the cartridges as fed in, and in a device for holding the magazine in place when closed.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

A represents the barrel, and B a tube secured underneath it by means of the two bands *pp*, the tube B sliding longitudinally in the bands. The under side of the barrel is hollowed out slightly, as shown in cross-section in Fig. 4, to permit the tube B to fit snugly under it. To the rear portion of the tube B, on its upper side, is secured a spring-catch, *g*, as shown in Figs. 2 and 5, and in the under side of the barrel is formed a groove, *h*, of sufficient size to receive the spring *g* and permit it to slide freely therein as the tube B is moved back and forth. The groove *h* is made of proper length to permit the tube to be shoved forward far enough to bring its rear end out of its seat in the breech-frame C, and

leave sufficient space between its rear end and the front of C to permit the cartridges to be dropped sidewise into the space, and then be shoved forward into the rear open end of the tube B. When the tube B has been thus shoved forward the front end of the spring *g* strikes against the shoulder at the front end of the groove *h*, and thus acts as a stop to prevent the further movement of the tube B. The spring *g*, sliding in the groove *h*, also acts as a guide, and prevents the tube B from being turned or rotated in the bands, thereby insuring the keeping of the various parts in their proper position to operate as intended.

The spring *g* has a catch or shoulder on its under face, at its rear end, which, when the tube is shoved forward, projects down over the edge of tube B at its rear end, or through a hole near the end of the same, as shown in Fig. 5, in such a manner that as a cartridge is shoved forward into the tube B this catch on the spring *g* catches over the end of the cartridge, and keeps it from being shoved out by the spiral spring in the tube used for feeding the cartridges back into the gun when in use.

A pin, *r*, is located transversely in the front portion of the breech-frame C, as shown in Fig. 2, in such a position that as the tube B, with spring *g*, is shoved back the beveled point of the spring *g* will ride up on said pin *r*, and be thus raised up out of the way of the cartridges, which are thus permitted to slide back past the catch of spring *g* into the gun.

In order to hold the tube B securely in place and keep the magazine closed, I locate a lever-catch, *c*, in a proper recess in the side of the breech-frame C, as shown in Fig. 1. This lever is pivoted at *b*, its rear end having a knob or projection, *a*, on its side, which fits in an opening through the side of C and comes flush therewith, or may be made to protrude slightly therefrom, as shown in Fig. 1. This lever is provided with a catch, *c*, at its front end on the inside, which locks into the notch *o* in the side of tube B, and thus holds it firmly in its place when closed. The point of the catch *c*, and also the side of the tube B adjoining it, are so beveled that when the tube is shoved back the catch will be thrown out and permit the tube to be shoved back far enough to let the



catch *c* lock into the notch *o* of tube B, a spring, *e*, serving to throw the point of the catch forward and hold it in the notch.

For the purpose of forming a recess or chamber to receive the cartridge preparatory to shoving it into the tube, I attach a small piece, *m*, to the barrel on each side of the tube B, just in front of the breech-frame C, as shown in Figs. 1 and 3. These pieces are properly rounded off on their outside and at their front ends, so as to give a smooth finish and be as light as consistent with the required strength. If desired, they may be formed by a continuation of the frame C, instead of being made of separate pieces.

By this construction of the magazine I am enabled to use a tube without any hole or opening in it, except the opening in the rear end, and also to dispense with any door or cover for the opening when made in the side of the tube, or, in lieu thereof, the use of one tube sliding within another. It constitutes a mag-

azine at once extremely simple, light, and cheap—one having but very few parts or pieces, and not likely to get out of order.

Having thus described my invention, what I claim is—

1. The sliding tube B, with the spring *g* attached, and sliding in the groove *h*, in combination with the barrel A and breech-frame C, when said parts are arranged to operate as and for purposes herein set forth.

2. In combination with the sliding tube B, I claim the spring-catch *c*, located inside of the breech-frame C, and arranged to be operated from the outside, as shown and described.

3. I claim forming the chamber for the reception of the cartridges at the rear end of tube B by means of the pieces *m*, or their equivalents, substantially as described.

WILLIAM C. DODGE.

Witnesses:

EDM. F. BROWN,  
JNO. D. PATTEN.