

(No Model.)

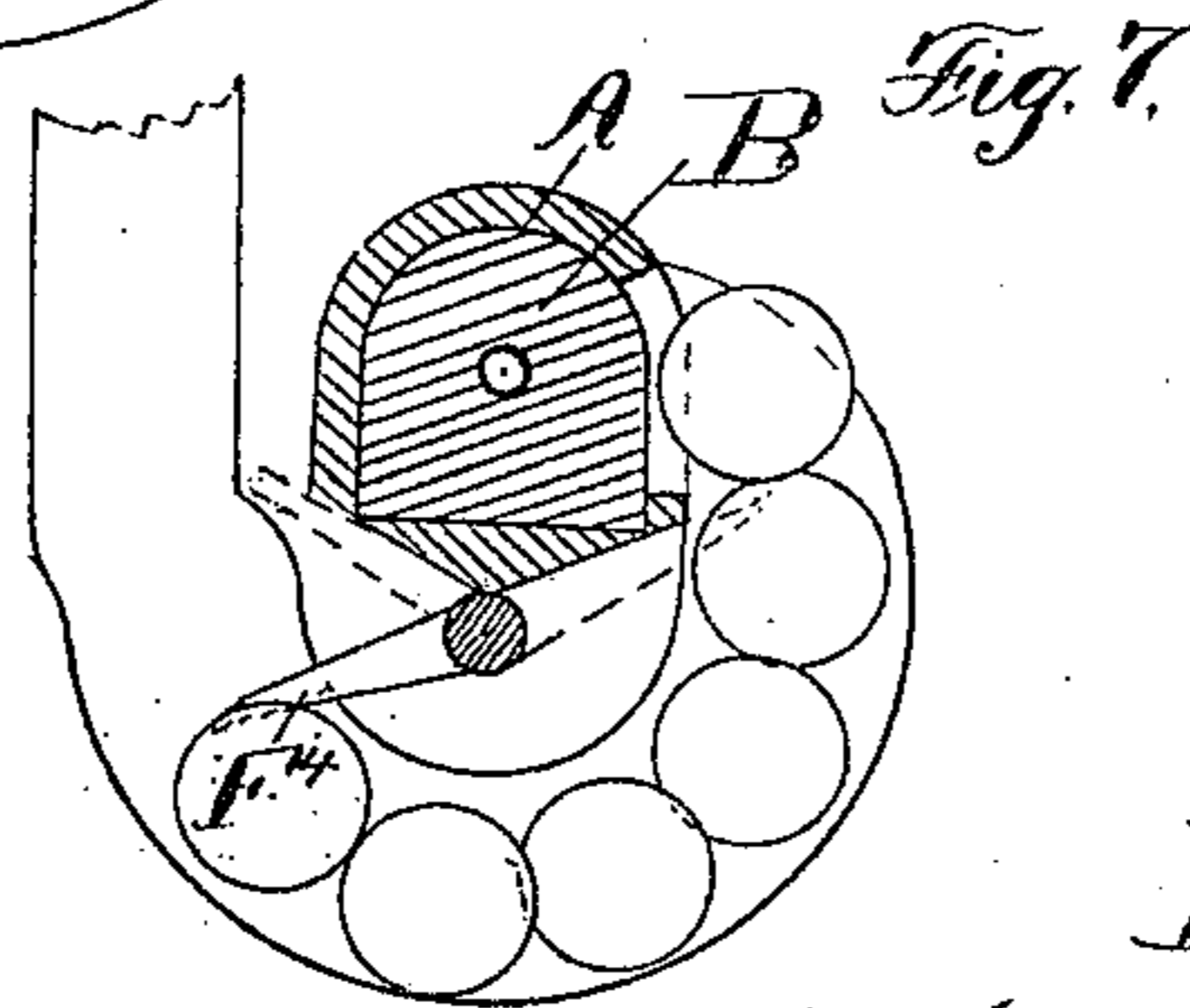
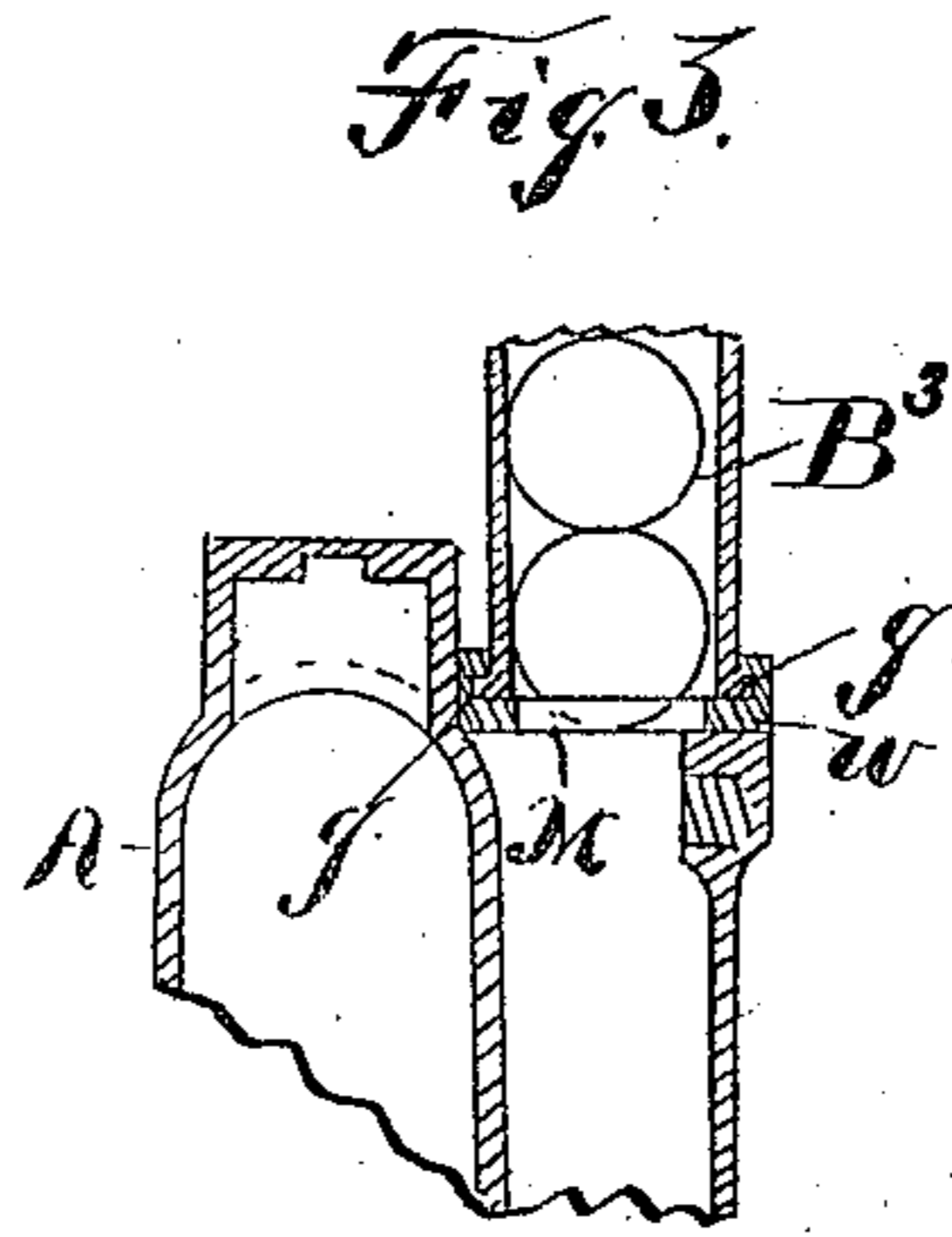
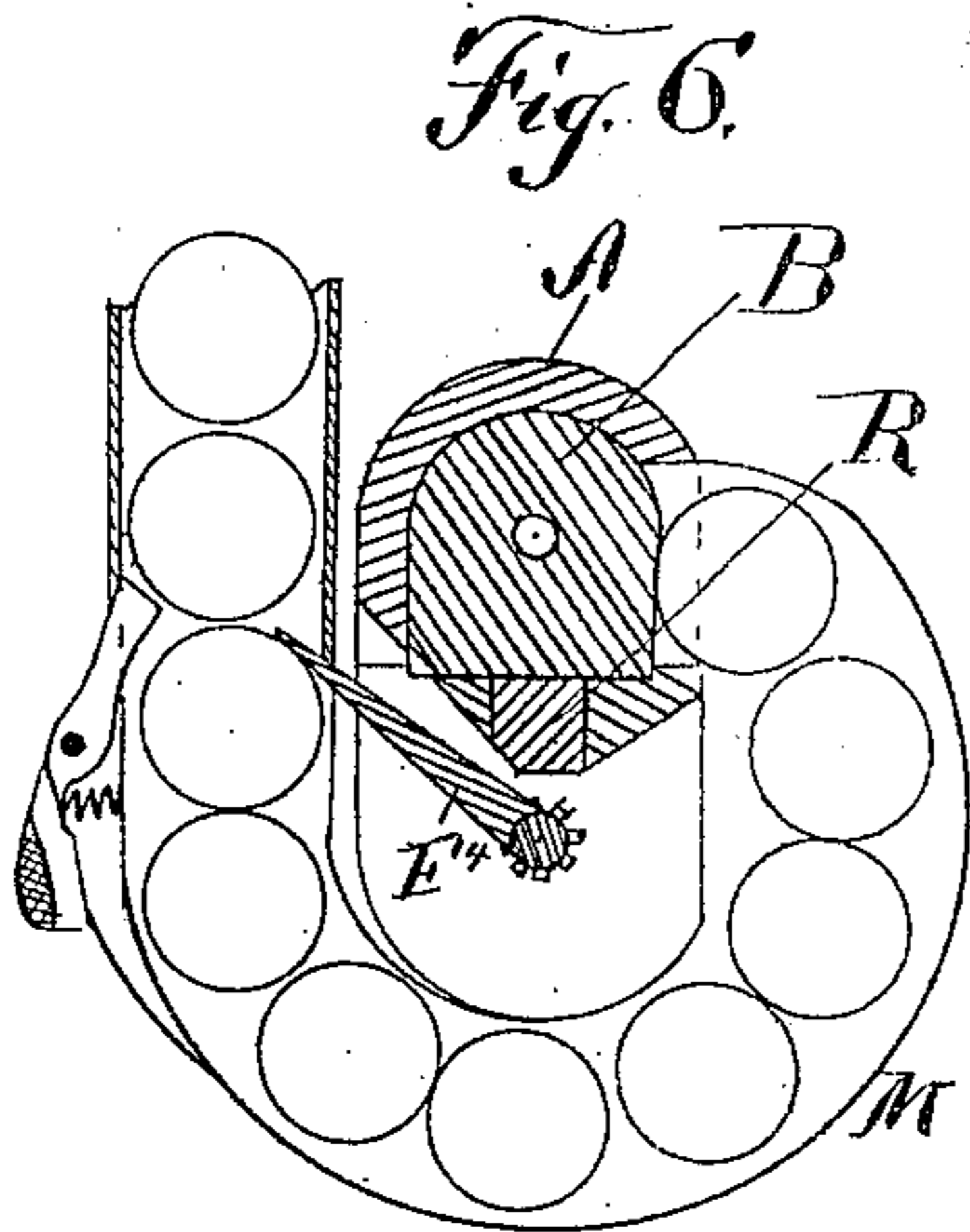
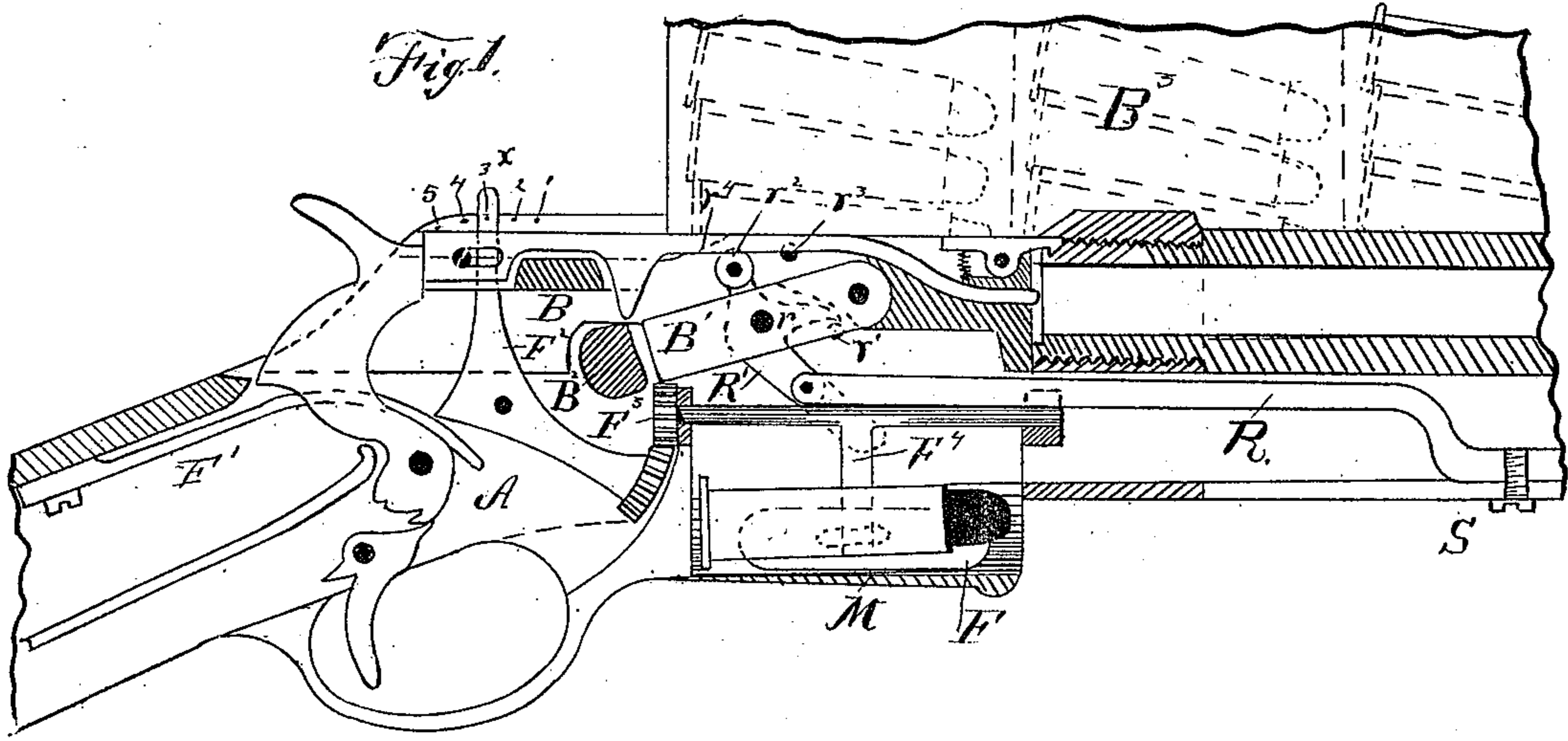
2 Sheets—Sheet 1.

A. BURGESS.

MAGAZINE FIRE ARM.

No. 357,461.

Patented Feb. 8, 1887.



Witnesses.
 L. H. Brown.
 J. Charleton Ingram.

Inventor.
 Andrew Burgess

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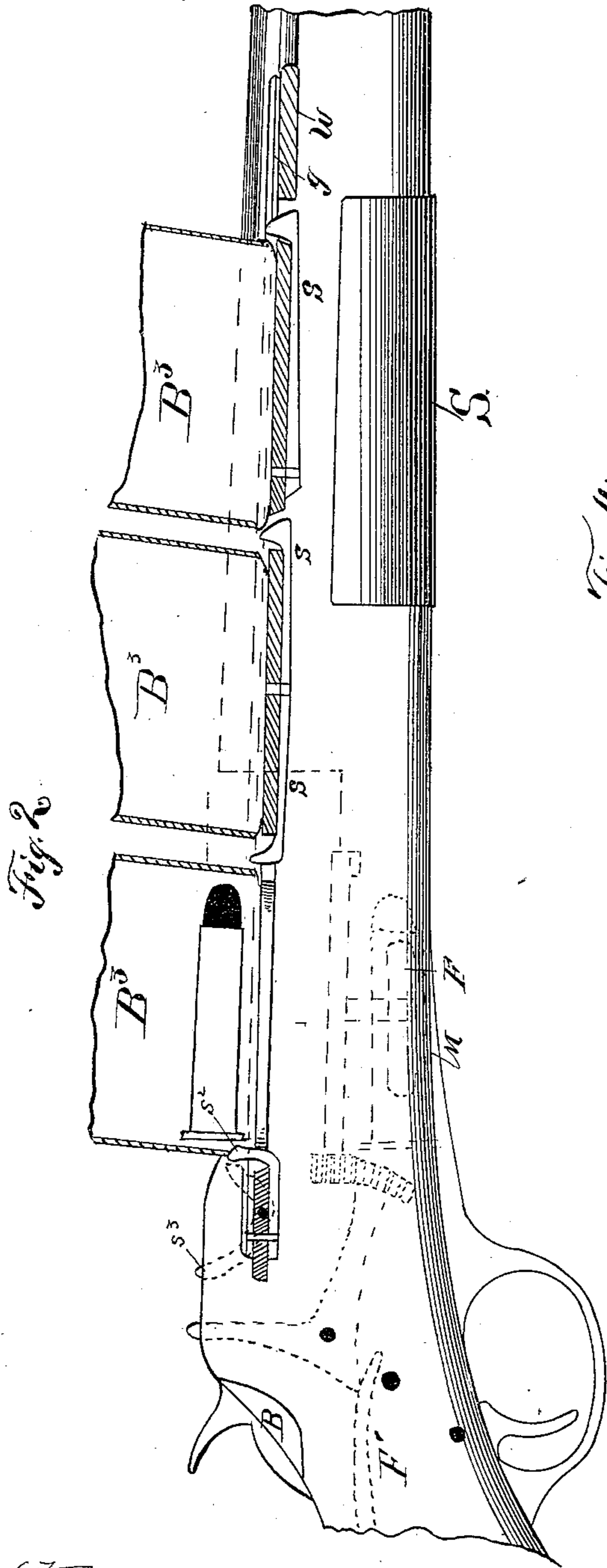


Fig. 2.

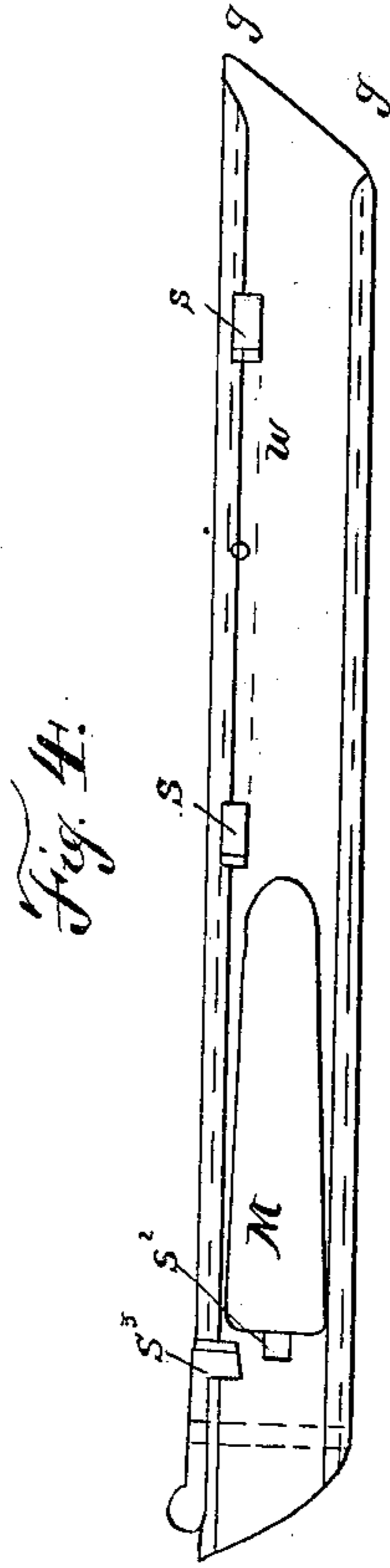


Fig. 4.

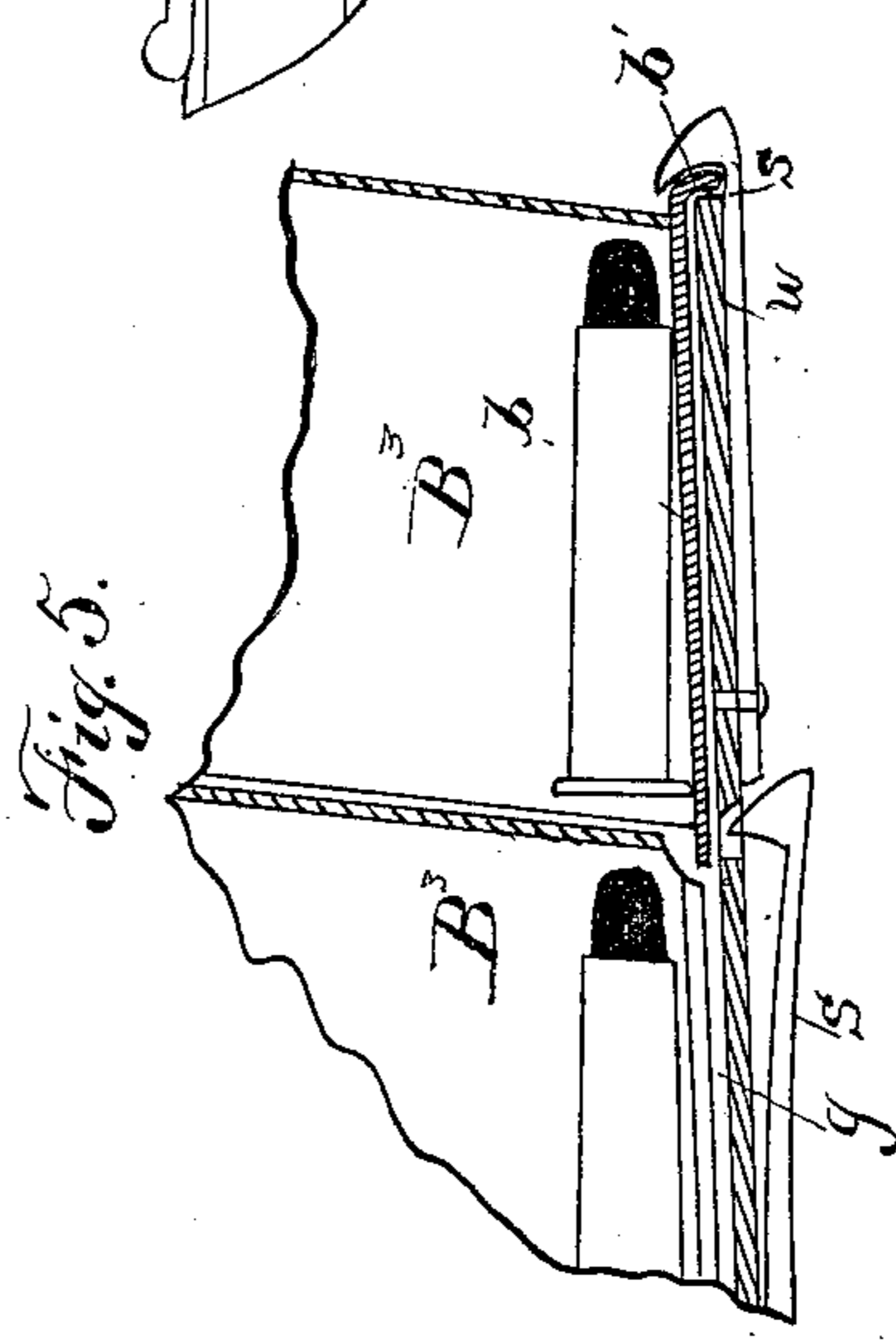


Fig. 5.

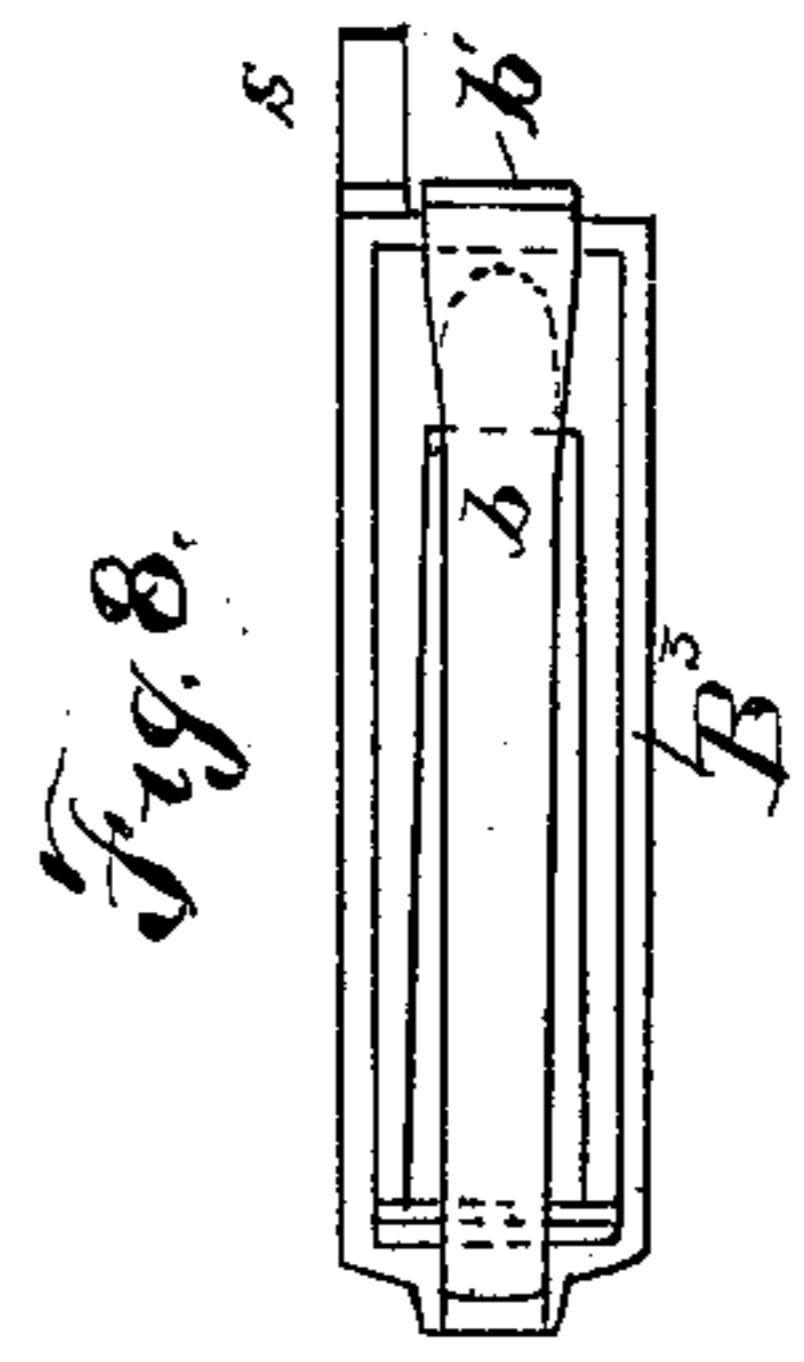


Fig. 8.

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UNITED STATES PATENT OFFICE.

ANDREW BURGESS, OF OWEGO, NEW YORK.

MAGAZINE FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 357,461, dated February 8, 1887.

Application filed May 22, 1884. Serial No. 132,487. (No model.)

To all whom it may concern:

Be it known that I, ANDREW BURGESS, a citizen of the United States, residing at Owego, in the county of Tioga and State of New York, have invented certain new and useful Improvements in Magazine Fire-Arms, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a magazine-gun of easy and rapid operation and capable of holding more than the usual number of cartridges; and said invention consists in improvements on the locking and starting devices, and improvements in combining feed-boxes with the magazine, together with other arrangements and combinations of parts, hereinafter more fully set forth and described.

Figure 1 is a longitudinal sectional side elevation showing position of the feed-boxes when carried by the gun to supply the magazine, also the locking-brace with its starting-lever. Fig. 2 is an outside view of the same. Fig. 3 is a cross-section through the frame and magazine and feed-box. Fig. 4 is a plan view of the way W. Fig. 5 is a side view in section of way W and magazine feed-boxes, showing their position on the way. Figs. 6 and 7 are cross-sections of circular forms of magazine. Fig. 8 is a bottom view of one of the feed-boxes.

Similar letters of reference indicate corresponding parts.

Fig. 1 shows a circular magazine, M, provided with a follower, F, attached to an arm, F¹, pivoted in the frame, and which is operated on by a spring, as F², which acts as a magazine-spring by pressing the cogged lever F² to turn the cogged wheel F³ (which is arranged on the pivot of the magazine-follower F) to feed the cartridges. The cogged lever F² has a handle projecting outside of the frame to turn back the follower, and an index to show its position, and thereby the number of cartridges in the magazine. The brace B¹ locks the bolt forward of the abutment B². The slide or sleeve S under the barrel reciprocates the operating-rod R, to unlock and move the brace B¹ by its connection with the lever R¹, which, in its first backward movement, turns up the brace B¹ by the forward

arm, r, of the lever R¹ first engaging the pin r¹ in the frame to start up said brace, and then the upper arm, r², engages the other pin, r³, to start back the brace and bolt, and the roller r² then turns so far forward as to run back under the horizontal projection r⁴ in the frame, said projection being engaged by said roller on its return to force the brace down to a locking position. The spring F², as shown, having a bearing on the lever F² to operate the magazine-follower, is merely a typical form which may be employed. It is obvious that any equivalent arrangement of spring and follower will be within the spirit of my invention, and that the lever F² may have an equivalent substituted for it.

Figs. 3, 4, and 5 show another feed device. A grooved way, W, is attached to the side of the barrel, and extends back to have an opening, M, into the mouth of the magazine, (which may be opposite to the delivery-opening when a circular magazine is used, or over delivery-opening, as in Fig. 4,) through which the magazine is loaded. The loading-boxes B³ have flanges or projections on their lower sides to run in the grooves g g of the way W, and spring-dogs s s are compressed by shoving the loading-boxes over them, but spring up to hold said boxes in position forward, as shown in Fig. 2, and also a stop, s'', to prevent the rear box from moving too far back by engaging the butt of the cartridge when in the feed-box; but when said box is empty it moves freely back to fall off from the way. A pivoted lever, s³, is added in Figs. 2 and 4, which may be turned to hold forward or stop the box.

As many feed-boxes as required may be placed on the way, as in Figs. 2 and 5, or one box with various compartments may be used, as in Fig. 1, and the cartridges of the rear box drop or are forced by a spring or by hand through the opening of the way into the magazine M, and then the box or series of boxes are moved back, allowing the rear empty one to fall, or when the compartment-box is used until all have been emptied.

The feed-boxes have a slide, b, Figs. 5 and 8, to hold in the cartridges; but when a box is placed on the way, as shown in Fig. 6, the lower projection, b', of the slide is stopped by

the end of the way W, so that when the box is moved backward the slide *b* is held forward by the way, so the box opens as it moves backward, but the cartridges are held up by the way until they reach the opening into the magazine.

Fig. 6 shows a cross section of the magazine and loading-box in one piece, and a spring-dog, *d''*, arranged to hold the upper cartridges out of the range of follower-arm *F'*. The operating-rod *R* is shown above the follower's pivot.

The circular magazine, as shown in cross-sections, Figs. 6 and 7, may be removably attached, so that when empty full ones may be slipped on to replace them.

In Fig. 1 the semicircular magazine is made open in front, so it may be filled (when the follower has been retired) by thrusting the cartridges, head first, backward into it, a box of the same form being used to hold the forward ends of the cartridges.

A vertical magazine alongside of the frame, as shown in Fig. 3, is fed by the boxes *B*³.

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

1. In a gun, a magazine holding cartridges sidewise in substantially the arc of a circle, in combination with a follower hung to a pivot, which pivot is the axis of said circle, substantially as described.

2. In a gun, a magazine holding cartridges sidewise in substantially the arc of a circle, in combination with a follower hung to a pivot, which pivot is the axis of said circle, and a lever or bar which has a projection outside of the frame, by which it may be engaged to retire the magazine-follower.

3. In a breech-loading gun, a reciprocating bolt, a brace pivoted in said bolt and swinging against an abutment in the frame to lock the bolt below its line of movement, in combination with a bell-crank lever, as *R'*, hung to said locking-brace, and an operating-rod, which turns the lever *R'* to bear against a fulcrum forward of the locking-abutment in the frame to unlock the brace, substantially as described.

4. In a breech-loading gun, a reciprocating bolt, and a brace pivoted in said bolt and swinging against an abutment in the frame to lock the bolt, in combination with a lever, as *R'*, hung to said locking-brace, and an operating-rod which turns the lever *R'* to bear against a fulcrum in the frame to start back the brace and bolt.

5. The bolt and locking-brace described, in combination with a lever hung to said locking-brace, and an operating-rod which turns the lever against a fulcrum or incline in the frame to force the brace into a locking position when the breech is closed, substantially as specified.

6. In a magazine fire-arm, a way, *W*, whose rear end is arranged opposite the loading-aperture in the frame, and which has an open forward end extending forward the length of two or more cartridges alongside the barrel, said way being provided with longitudinal grooves or feathers, in combination with removable loading-boxes, as *B*³ *B*³, holding a plurality of cartridges and adapted to enter the open forward end and slide longitudinally on the way *W* and be guided rearward thereby, substantially as and for the purpose specified.

7. In a magazine-gun, the way *W*, fixed longitudinally on the body of the gun and having the grooves *g g*, adapted to receive the flanges of loading boxes, in combination with said loading-boxes and the spring-dogs *s s*, to hold them back and on the way, substantially as described.

8. In a magazine fire-arm, the way *W* and loading-boxes guided longitudinally thereon by the grooves *g g*, substantially as specified, in combination with the spring-dogs *s s*, to hold back said boxes, and the stop *s''*, arranged in line of movement of the lower cartridge of the rear box, so as to stop the rearward movement of the boxes by engaging the cartridge-head.

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

ANDREW BURGESS.

Witnesses:

F. O. McCLEARY,
WM. P. SMITH.