

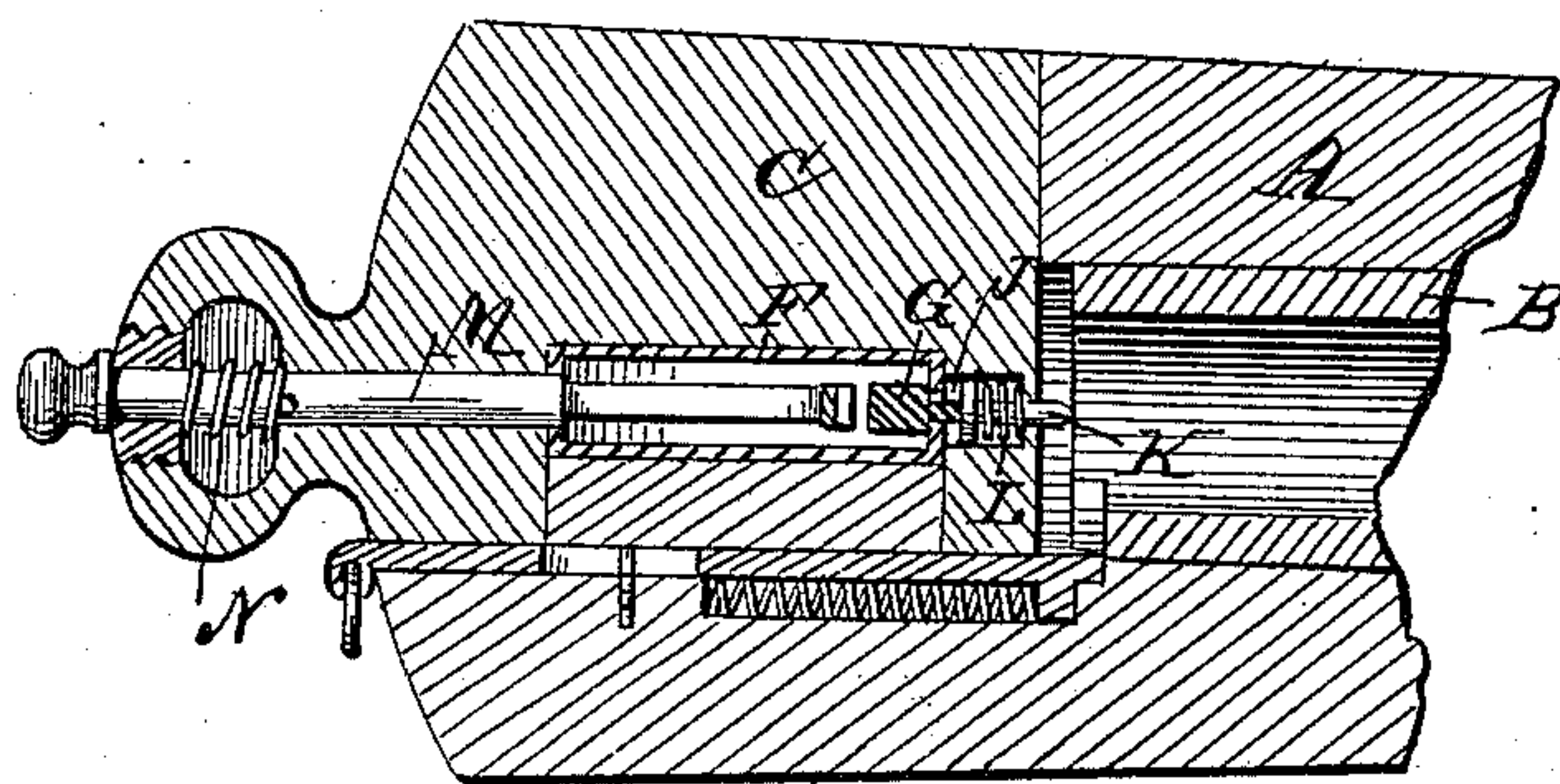
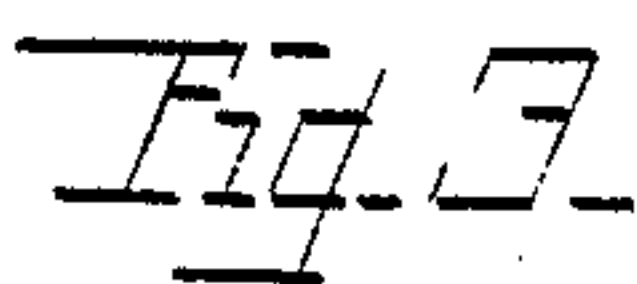
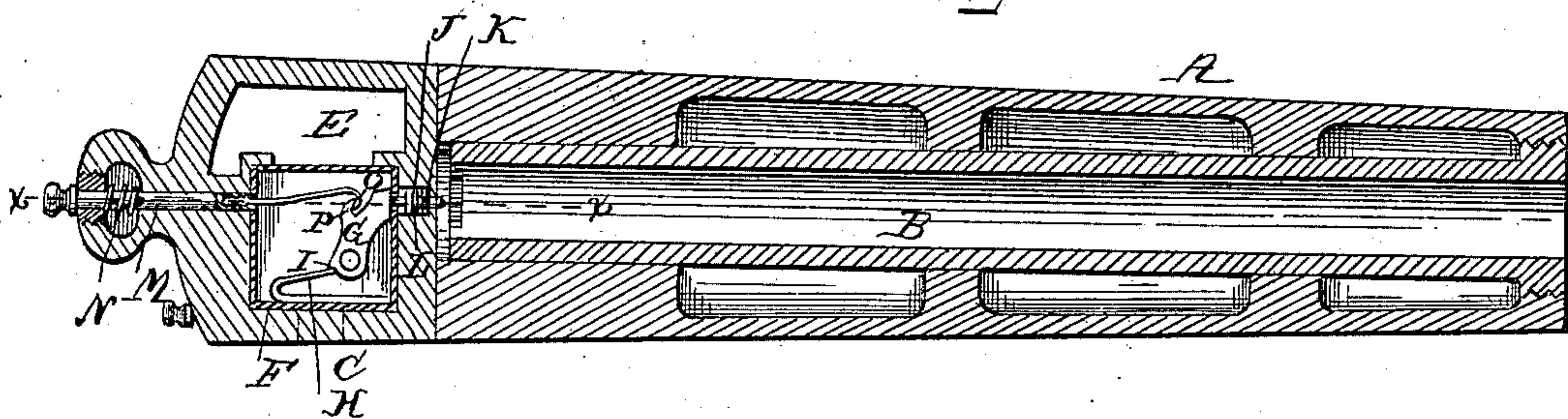
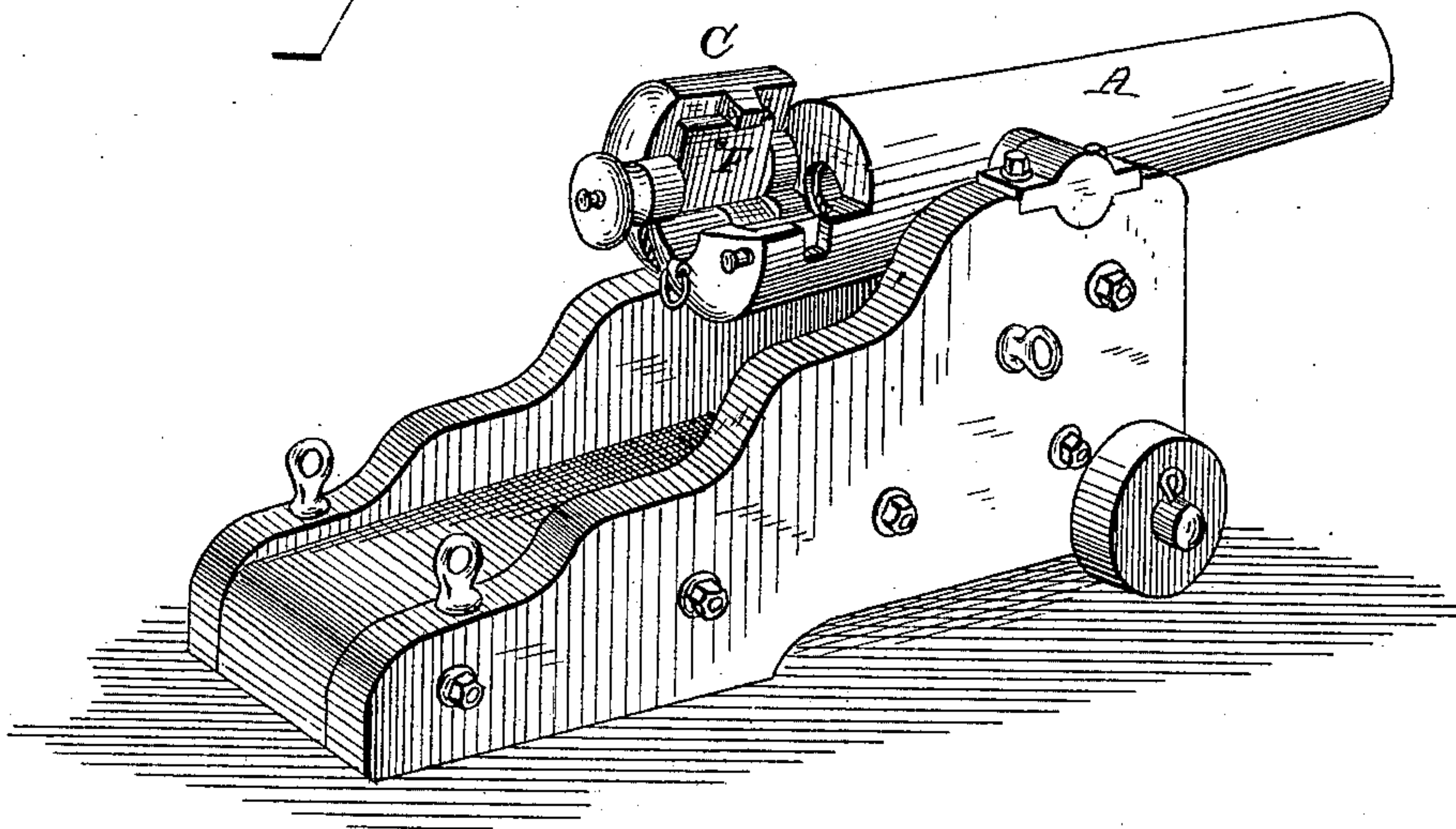
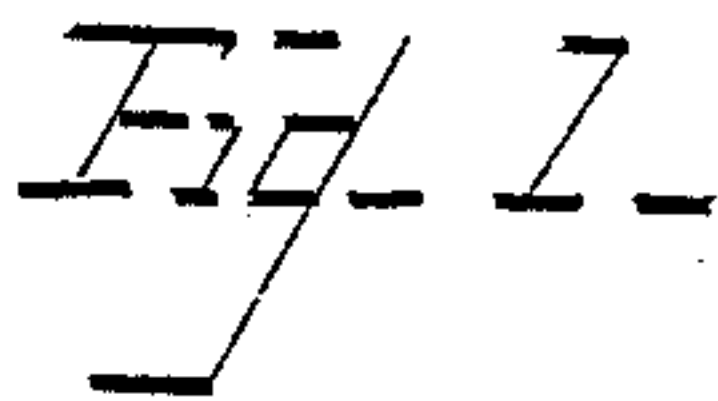
(No Model.)

A. DICKERMAN.

BREECH LOADING CANNON.

No. 279,639.

Patented June, 19, 1883.



**WITNESSES**

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# UNITED STATES PATENT OFFICE.

AMOS DICKERMAN, OF NEW HAVEN, CONNECTICUT.

## BREECH-LOADING CANNON.

SPECIFICATION forming part of Letters Patent No. 279,639, dated June 19, 1883.

Application filed May 12, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, AMOS DICKERMAN, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Rolling Breech-Loading Cannon, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to breech-loading ordnance, and more especially to small pieces, known as "yacht-guns," and is an improvement on Patent No. 270,289, granted to myself on the 9th day of January, 1883.

My present invention consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view. Fig. 2 is a longitudinal horizontal sectional view, and Fig. 3 is a detail vertical longitudinal section.

The same letters refer to the same parts in all the figures.

A in the drawings designates the barrel, which is cored to receive the tube B, forming the bore.

C designates a rolling breech-block, which is hinged to the butt of the barrel upon a longitudinal pin, which is partly screw-threaded for the purpose of retaining it securely in position. Suitable means are provided for fastening the breech-block when closed. The breech-block is cored, as at E, to receive the lock-case F, which contains the firing mechanism. The latter comprises the hammer G, which is thrown in a forward direction by the action of the mainspring H, which is arranged in the side of the case, against a lug or projection, I, upon the side of the hammer. The front wall of the breech-block has an opening, J, in which is placed the firing-pin K, which is forced automatically in a rearward direction by the action of a suitably-arranged spring, L.

M is a stem arranged to slide longitudinally in the butt of the breech-block, and forced in a forward direction by the action of a suitably-arranged spring, N. The stem M, or the

front part of the latter, is formed of elastic or spring metal, and its front end has a hook, O, engaging a dog, P, formed upon the upper part of the hammer.

In operation, when the cartridge has been inserted and the breech closed, the piece may be discharged by pulling the stem or slide M in a rearward direction until the hook O releases the hammer. The latter is then, by the action of the mainspring, forced forwardly against the firing-pin, whereby the piece is discharged. When the stem or slide M is released it is forced forwardly by the action of the spring N until the hook O engages the dog P of the hammer, thus replacing the firing mechanism in position for firing.

It will be seen that by this invention the construction of the firing mechanism is much simplified. By the coring of the barrel and of the breech-block the parts adjoining the said cored spaces are permitted to vibrate freely when the piece is discharged, and hence a loud detonation or report is secured, which is of prime importance in this class of guns, which are usually employed for signaling only.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. In yacht or signaling guns, the breech-block, cored as described, to receive the lock-case, which is thereby surrounded by a space, whereby a loud report is secured when the piece is discharged, as set forth.

2. In breech-loading ordnance, the combination of the barrel, the breech-block, the lock-case, the hammer, the mainspring arranged to force the hammer in a forward direction, the firing-pin, a dog formed upon the upper side of the hammer, and a longitudinally-sliding elastic stem having at its front end a hook adapted to engage the said dog, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

AMOS DICKERMAN.

Witnesses:

ANNIE M. J. BUTLER,  
WM. C. AVERY.