

(No Model.)

J. M. MARLIN.  
MAGAZINE FIRE ARM.

No. 297,424.

Patented Apr. 22, 1884.

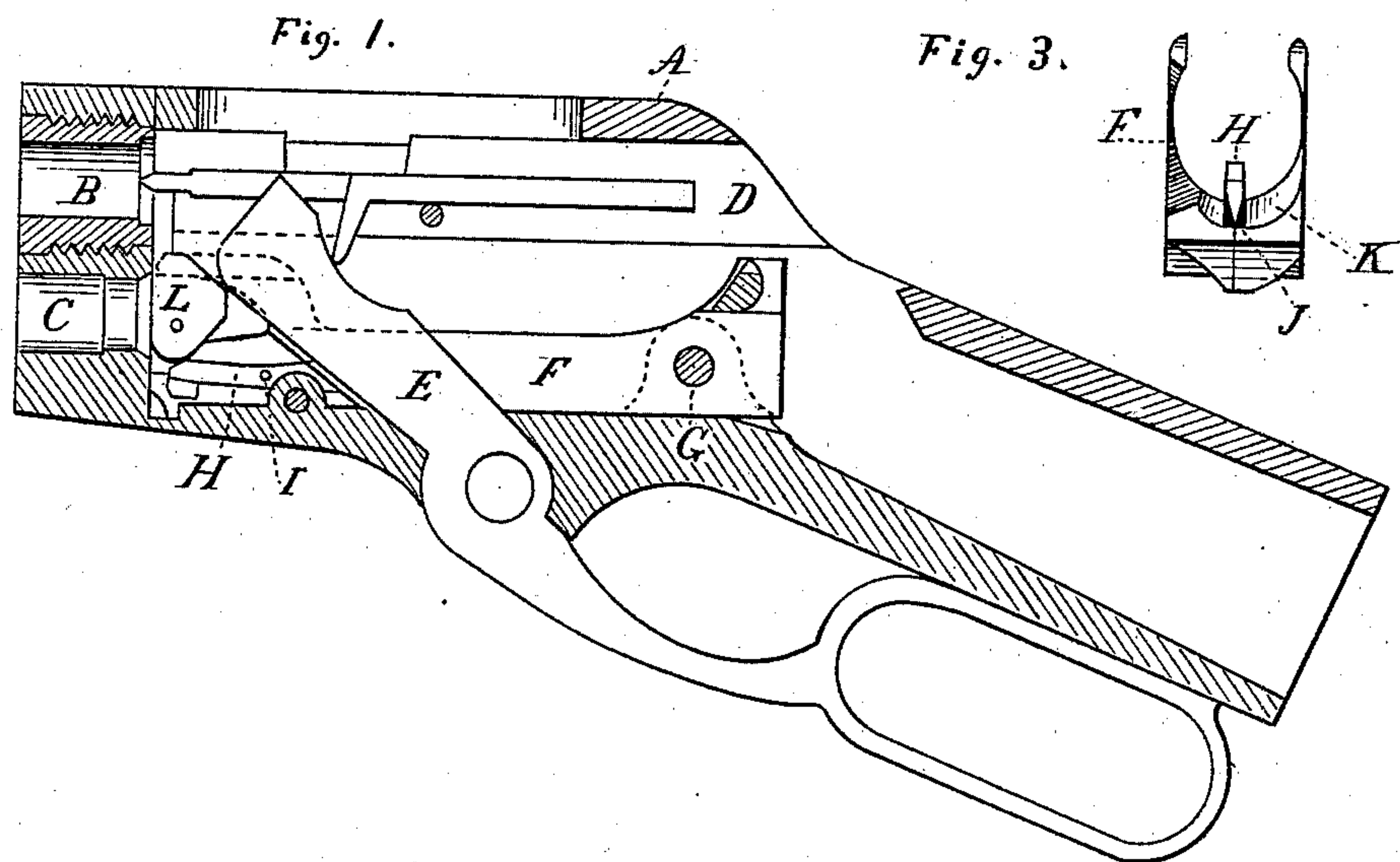


Fig. 3.

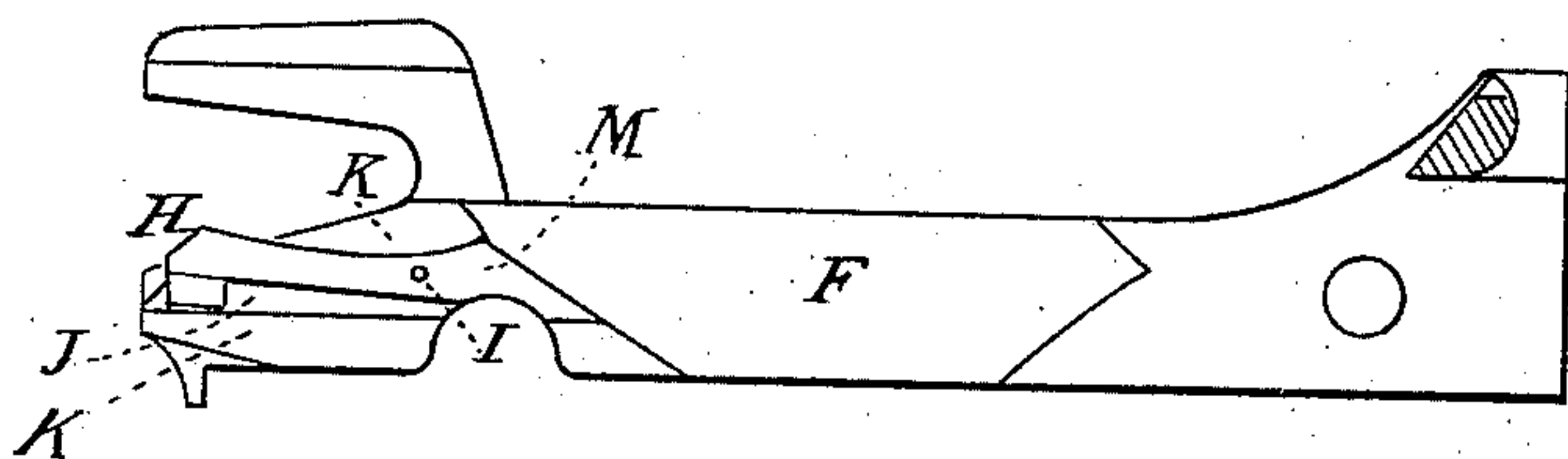
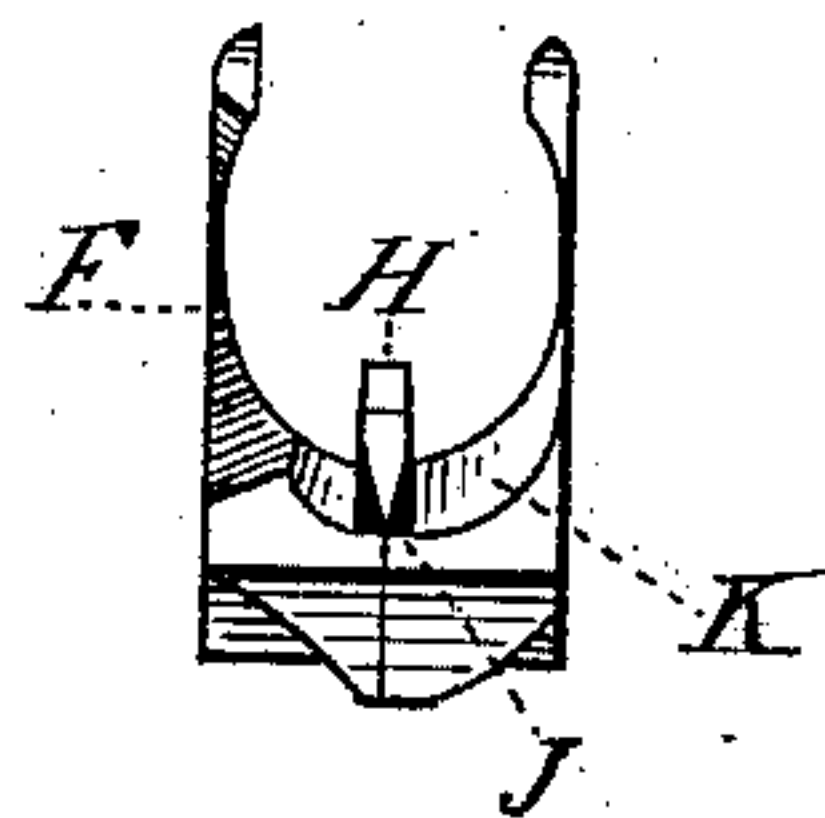


Fig. 2.

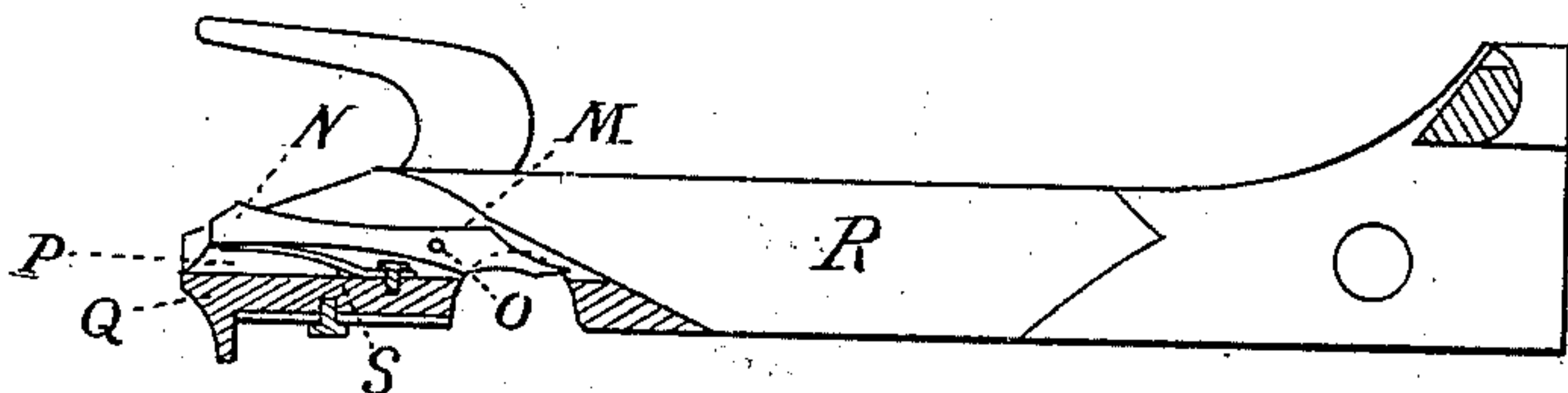


Fig. 4.

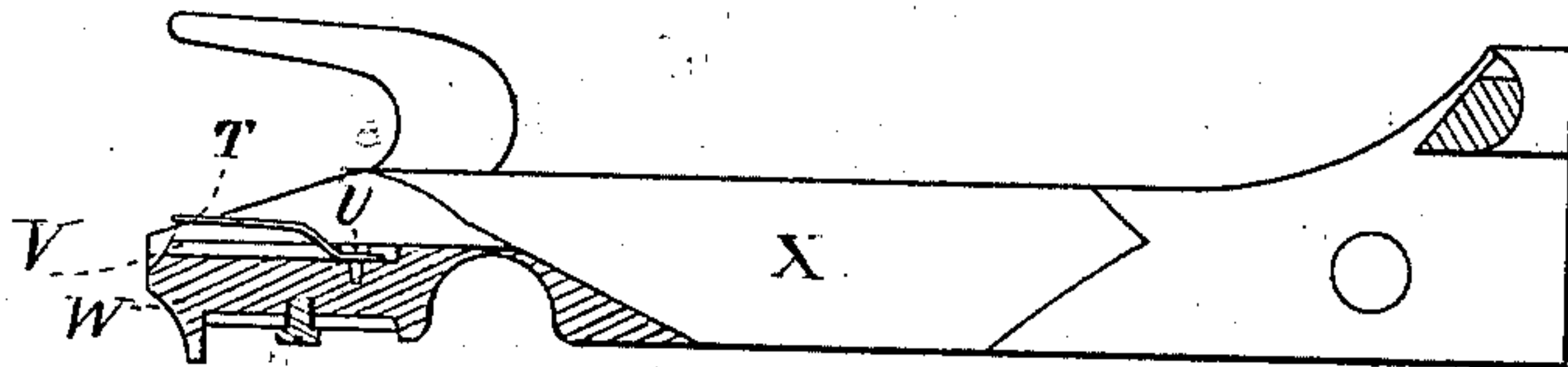


Fig. 5.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN M. MARLIN, OF NEW HAVEN, CONNECTICUT.

## MAGAZINE FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 297,424, dated April 22, 1884.

Application filed January 11, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN M. MARLIN, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Magazine Fire-Arms; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in that class of fire-arms in which the cartridges are transferred from the magazine to the chamber by means of a vibrating carrier operating in conjunction with a longitudinally-moving breech-piece, the object of the invention being to provide an improved stop for arresting and retaining the column of cartridges in the magazine after one cartridge has been fully entered upon the carrier. A further object of the invention is to adapt a stop having the above-described function to open a split carrier for charging.

With these ends in view my invention consists in a stop mounted in and normally standing above the bed of a carrier and arranged to be depressed and engaged by the breech-piece.

My invention further consists in a stop mounted in and standing above the bed of a split carrier, and adapted to open the same for charging, in addition to its primary function of arresting and retaining the cartridges in the magazine, as described.

My invention further consists in certain details of construction and combinations of parts as will be hereinafter explained, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in vertical longitudinal section of the frame of an arm provided with a split carrier furnished with one of my improved stops. Fig. 2 is a similar view of the carrier. Fig. 3 is a view thereof in front elevation; and Figs. 4 and 5 are sectional views of solid carriers, showing two of the forms which the stop may assume when designed to operate as a stop only.

As has already been described, the primary function of my improved stop is to arrest and retain the column of cartridges in the magazine after one cartridge has been fully entered upon the carrier. The partial entrance of another

cartridge upon the carrier is thus prevented and obstruction of the arm avoided. The stop may be applied either to solid or to split carriers, and in its application to the latter it may or may not have the additional function of opening the same. It is mounted in and normally stands above the bed of the carrier, being depressed to allow the cartridges to be entered thereupon by the breech-piece, as will be hereinafter described.

For the purpose of more fully and clearly showing the invention, the stop has been shown in several of its forms and both as applied to split and solid carriers.

Figs. 1, 2, and 3 of the drawings show the application of the stop to a split carrier. In this case the stop is adapted to open the carrier for charging, in addition to its primary function.

In Fig. 1 of the drawings, A is the frame, B the chamber, C the magazine, D the breech-piece, and E the trigger-guard lever of an arm of the class described. The carrier F, which is of the split type and of ordinary construction, is hung in the said frame by a pivot, G, and operated by the breech-piece D and the lever E in the usual manner. My improved stop here assumes the form of a dog, H, which is hung by a pivot, I, in a recess, J, running parallel with the line on which the bed K of the carrier is split or divided. The outer end of the dog is wedge-shaped, as shown in Fig. 3 of the drawings, whereby when it is depressed by the pivotal arm L of the breech-piece it forces the sides of the carrier apart, and thus opens the same for charging. On the other hand, when the arm of the breech-piece is disengaged from the dog, the carrier will immediately close and raise the same to its normal position. A stop constructed as described and applied to a split carrier dispenses with all other appliances for opening the carrier, and thus simplifies the construction of the arm. It also utilizes the carrier for restoring it to its normal position, and thus avoids the necessity of employing a spring or other means for that purpose. To insure positiveness of action, and as a safeguard in case the carrier should fail to restore the dog to its elevated position by reason of being broken or obstructed, the rear end of the dog is provided with an incline, M, which is en-



gaged by the arm L of the breech-piece as the same recedes, with the effect of depressing the rear end of the dog and of elevating its outer end. I do not limit myself, however, to this method of insuring positiveness of action of the dog. It is apparent, also, that, if desired, split carriers may be provided with stops operating as stops only. In such case other means would have to be employed for opening the carriers.

In Fig. 4 of the drawings another form of my improved stop is shown. It consists of a dog, N, similar in general contour to the dog H, and hung by a pivot, O, in a recess, P, formed in the bed Q of the carrier R, which is of the solid type; or, in other words, the forward as well as the rear ends of its sides are rigidly united. A spring, S, located beneath the dog is employed for restoring it to its normal position after depression. This stop is also provided with an incline, M, to insure positiveness of action in case the spring fails to do its work.

The stop shown in Fig. 5 of the drawings consists simply of a spring, T, secured by a screw, U, in a recess, V, formed in the bed W of the carrier X, which is also of the solid type. This stop is self-acting so far as its return to its normal position is concerned.

Whatever form the stop may assume, it is always depressed to permit the cartridges to enter upon the carrier by an arm depending from the breech-piece. As herein shown, the pivotal arm L thereof, which depresses the stop, also performs the function of ejecting the cartridges after they are discharged, and of depressing the carrier into its charging position. It is apparent, however, that any construction of the breech-piece which will depress the stop will satisfy the requirements of the present invention.

Having set forth my invention in detail, I will now proceed to describe the method of its operation. For the purposes of this description I will explain the operation of the stop as applied to a split carrier, it being understood that so far as concerns arresting and retaining the column of cartridges in the magazine the action of the stop is the same both as applied to split and solid carriers. Let it be assumed at the outset that the breech-piece is in its firing and the magazine is in its charging position, as shown in Fig. 1 of the drawings. In this adjustment of the parts the stop is depressed below the level of the bed of the carrier by the pivotal arm of the breech-piece, and the carrier is open for charging. Now, by throwing the trigger-guard lever forward, the breech-piece will be moved to the rear and the whole column of cartridges will follow its depending arm as it recedes, the rearmost cartridge of the column being entered upon the carrier. This rearward movement of the breech-piece releases the stop and permits it to be restored to its normal position by the carrier, which closes in so doing. The elevation of the stop and the closing of the carrier do not occur,

however, until the head of the entering cartridge has been well entered upon the carrier, wherefore the progress of the said cartridge is in no wise impeded, inasmuch as there is ample space for the shank thereof and the stop when the carrier is closed. As the arm of the breech-piece passes the incline formed upon the rear end of the dog, it depresses the rear end of the same, and elevates its outer end, if that has not been fully done by the carrier in closing. From the foregoing it will be seen that the carrier will be in readiness to arrest and retain the column of cartridges in the magazine before the entering cartridge has been fully entered upon the carrier. When this is effected, the head of the rearmost cartridge of the line engages with stop and carrier, and thus arrests the line and retains it in place until the stop is depressed again by the breech-piece. Assuming that the carrier is now charged, its forward end is elevated to a position in front of the chamber by means of the trigger-guard lever, which is carried to the limit of its forward throw for the purpose, the column of cartridges in the magazine being retained in place meanwhile by the engagement of the lower edge of the carrier with the rearmost cartridge. This engagement of the carrier with the rearmost cartridge also supports it in its elevated position. The lever is now pulled back, with the effect of restoring the parts to their original positions, and of introducing the cartridge upon the carrier into the chamber. The arm is now ready for firing, and it may be reloaded by repeating the manipulations above set forth.

A stop constructed in accordance with my invention will be found effectual in preventing the entrance of more than one cartridge at a time upon the carrier, and this although the cartridges are not uniform in size. The stop is simple in construction and operation. It in no wise interferes with other parts of the charging and firing mechanism of the arm. It requires no especial adaptation of the arm to receive it, but may be applied to any arms of this class. It is positive in action, and, moreover, it cannot be displaced by jarring the arm.

It is apparent that some changes in the construction herein shown and described may be made without departing from the invention. I would therefore have it understood that I do not limit myself to the exact construction and combination of parts herein set forth, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a magazine fire-arm, the combination, with the carrier and breech-piece, of a stop located in the forward end of the carrier, and normally standing above the bed thereof, and arranged to be engaged and depressed by the breech-piece, substantially as set forth.
2. In a magazine fire-arm, the combination,



with the carrier and breech-piece, of a stop located in the forward end of the carrier, and normally standing above the bed thereof, and arranged to be engaged and depressed by the breech-piece, and means for elevating the said stop after depression, substantially as set forth.

3. In a magazine fire-arm, the combination, with the carrier and breech-piece, of a stop mounted in a recess formed in the bed of the carrier, and normally standing above the level of the same, and arranged to be depressed by the breech-piece, substantially as set forth.

4. In a magazine fire-arm, the combination, with the carrier and breech-piece, of a stop mounted in the forward end of the carrier, and normally standing above the bed thereof, and having its rear end provided with an incline with which the breech-piece engages in its rearward movement and elevates the outer end of the stop, substantially as set forth.

5. In a magazine fire-arm, the combination, with a split carrier and the breech-piece, of a stop mounted in and normally standing above the bed of the carrier, and constructed and arranged to be depressed by the breech-piece, and to enter between and force the sides of the carrier apart when so depressed, substantially as set forth.

6. In a magazine fire-arm, the combination, with a split carrier and the breech-piece, of a stop mounted in and normally standing above the bed of the carrier, and constructed and arranged to be depressed by the breech-piece, and to enter between and force the sides of the carrier apart when so depressed, and to be elevated by the same in closing, substantially as set forth.

7. In a magazine fire-arm, the combination, with a split carrier and breech-piece, of a stop located in and normally standing above the bed thereof, having its forward end wedge-shaped, and arranged to be depressed by the breech-piece, and to enter between and force the sides of the carrier apart when so depressed, and to be elevated by the same in closing, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN M. MARLIN.

Witnesses:

EDWARD H. ROGERS,  
GEO. D. SEYMOUR.