

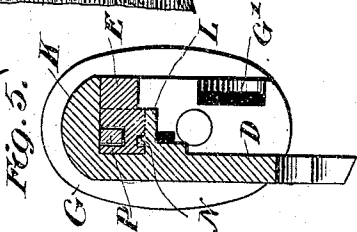
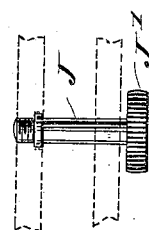
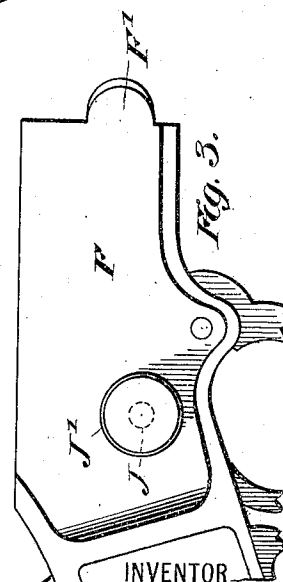
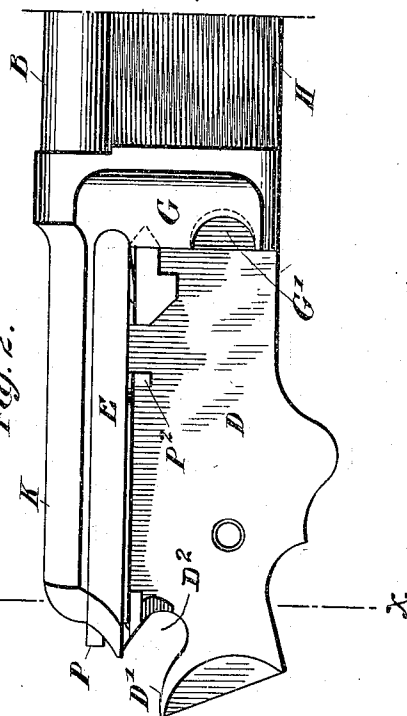
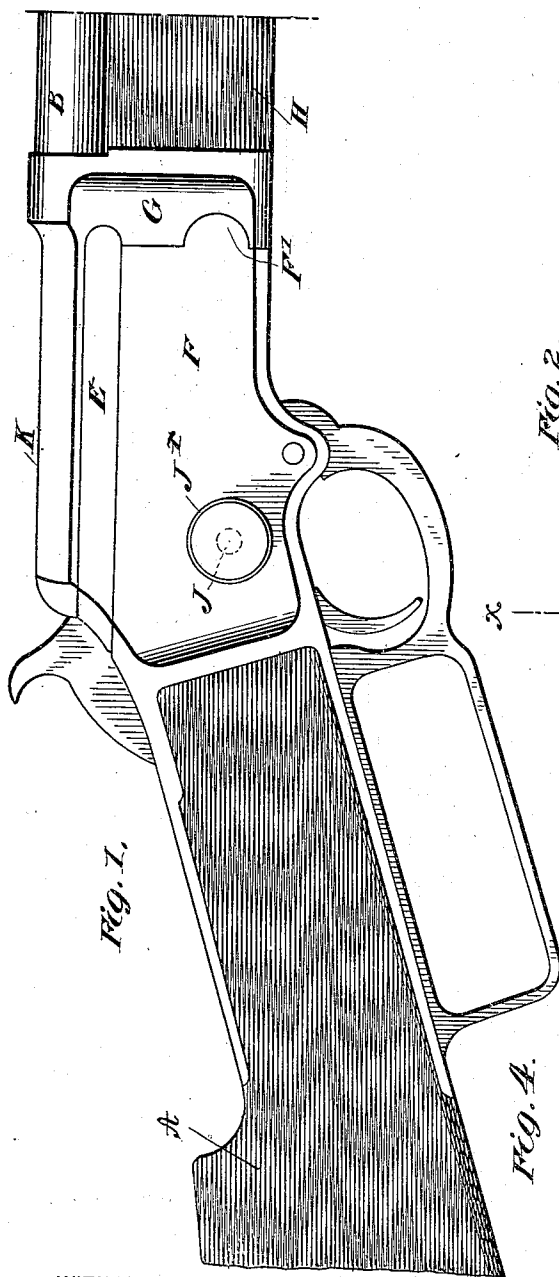
(No Model.)

2 Sheets—Sheet 1.

L. L. HEPBURN.
MAGAZINE GUN.

No. 584,177.

Patented June 8, 1897.



WITNESSES:

Frank S. Ober,
J. S. Oswald.

INVENTOR

Lewis L. Hepturn
BY *R. C. Mitchell*
ATTORNEY

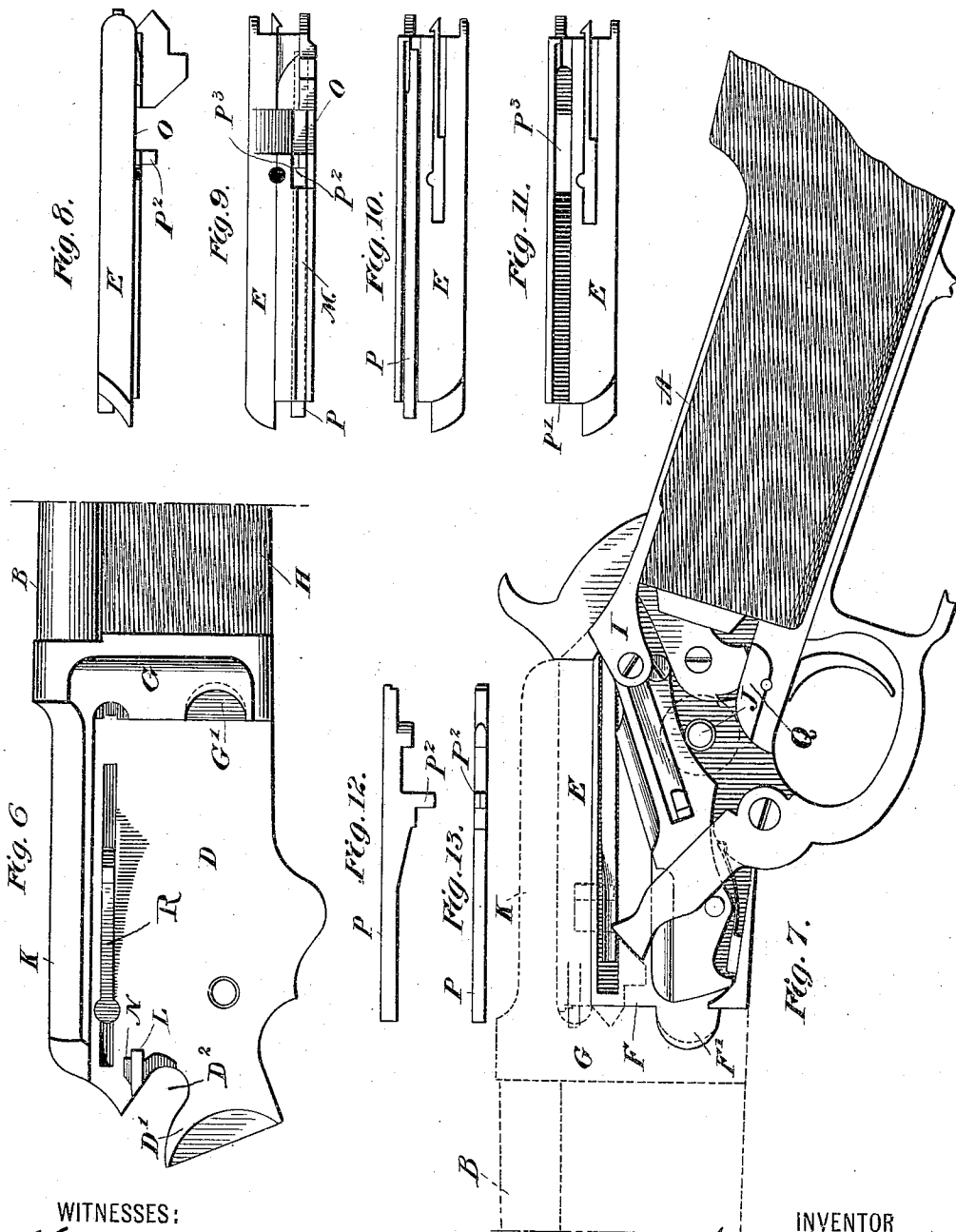
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UNITED STATES PATENT OFFICE.

LEWIS L. HEPBURN, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
MARLIN FIRE ARMS COMPANY, OF SAME PLACE.

MAGAZINE-GUN.

SPECIFICATION forming part of Letters Patent No. 584,177, dated June 8, 1897.

Application filed February 12, 1897. Serial No. 623,033. (No model.)

To all whom it may concern:

Be it known that I, LEWIS L. HEPBURN, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Firearms, of which the following is a full, clear, and exact specification.

My invention relates to improvements in firearms, and has for its object the provision of a simple, inexpensive, and effective means whereby the barrel portion may be readily separated from the stock portion for convenience in packing and transportation, another main object of the invention being the accessibility of all of the operating parts of the firearm, whereby the same may be cleaned, readjusted, or replaced by other parts should the same be desirable.

My invention is illustrated by the accompanying drawings, in which—

Figure 1 is a side elevation of one form of firearm containing my invention, the ends of the same being broken away. Fig. 2 is a similar view of the barrel portion of the invention and a portion of the breech-frame. Fig. 3 is a similar view of that portion of the breech-frame connected to the stock shown in Fig. 1. Fig. 4 is a view of a detail. Fig. 5 is a vertical section on the line xx , Fig. 2. Fig. 6 is a side elevation of the parts shown in Fig. 2, with the exception of the breech-bolt, which is removed. Fig. 7 is a side elevation of the firearm shown in Fig. 1, the view being taken on the opposite side of the firearm, the side plate being broken away to illustrate the internal construction. Figs. 8, 9, 10, and 11 are different views of the breech-bolt, and Figs. 12 and 13 are different views of the firing-pin.

Similar letters refer to similar parts.

A is the stock of the firearm.

B is the barrel portion of the firearm, the form of arm illustrated being generally termed a "magazine-firearm," in which a magazine is arranged underneath the barrel B in the usual manner and adapted to carry a number of cartridges, which are successively released and thrown into the breech portion of the arm, where by suitable mechanism, such as, for instance, illustrated and described

in my earlier United States Letters Patent, No. 434,062, of August 12, 1890, they are automatically inserted into the barrel, fired, retracted, and ejected at the will of the operator.

D is a side plate preferably carried by the barrel portion B. This side plate also, by preference, carries, in the case of a breech-loading gun, the breech-bolt E.

F is a side plate carried by the stock portion of the firearm. In the case of a breech-loading arm a portion or all of the breech mechanism may be carried by the plate F, the said plates D and F forming, by preference, the side of the casing in which the breech mechanism is housed.

G is a reinforce or enlargement at the rear end of the barrel B, by which reinforce the fore-end H, commonly used, may receive its support.

The parts thus described are provided with means whereby the barrel portion may be readily detached from the stock portion to permit the parts to be packed in a small compass, said means being described as follows: The side plate F is provided with a tenon F', the same projecting into an undercut recess G' in the reinforce G. At the rear end of plate D is formed a tenon D', adapted to project under an abutment or projection I on the upper tang of the stock portion of the arm. Adjacent to the tenon D' is a recess D² to correspond substantially to the shape of the abutment I, so that when the parts are assembled the abutment I will enter therein, preventing vertical displacement of the parts. To prevent the lateral disengagement of the parts, any well-known means may be provided, the means illustrated being simply a screw or small bolt J, passing freely through one of said plates D F and engaging the other plate and serving, when screwed tightly into place, to prevent said detachment. The bolt J is provided with a suitably-enlarged head J', whereby the same may be operated by the thumb and forefinger. The recess D² in the rear of the plate D is preferably cut at an angle to give a dovetailed formation to the tenon D', said tenon being adapted to enter a correspondingly-shaped recess between the abutment I and that part of the stock por-

tion lettered Q. By this last-named means longitudinal displacement is guarded against.

The operation of detaching the stock portion from the barrel comprises, first, loosening the screw J; second, swinging the stock so as to free the tenon D' from its recess, and, lastly, drawing the stock rearwardly to withdraw the tenon F' from the recess in the reinforce G. To attach the parts, the steps are reversed.

In the case of a magazine breech-loader the parts contained within the breech-casing are readily accessible for cleaning. Should it become desirable to inspect or clean the inside of the barrel; the presence of the said breech-bolt in line therewith is not desirable. I therefore provide a means whereby the breech-bolt may be entirely separated from the barrel portion, the same being described as follows:

K is a top plate, the under surface of which affords a bearing for the top of the breech-bolt.

L is a shoulder projecting inwardly from the plate D toward the rear of and underneath the top plate K and forming a lower support or bearing for said breech-bolt. In one side of the breech-bolt is formed a groove M. N is a rib carried by the shoulder L and projecting into said groove M, by which means the said breech-bolt is prevented from becoming accidentally detached from its support.

R is a spring-ejector of the ordinary construction. To permit the breech-bolt to be detached, I provide a small opening or recess in the side of the breech-bolt adjacent to the groove therein and of a depth equal substantially to the depth of said groove, and indicated by the letter O, Fig. 9, and seen in Figs. 2 and 8, so that when the stock portion has been removed from the barrel portion and the breech-bolt has been retracted, so that the opening or recess O will lie adjacent to the rib end, the breech-bolt may readily be slipped laterally out of engagement with the frame.

P is a firing-pin capable of limited longitudinal movement in mortise P' in the top of the breech-bolt E, the same being held in place when the parts are assembled by the top plate K and by a downward projection P², passing through an opening P³ in said breech-bolt. It will be seen that when the breech-bolt is detached from the frame the firing-pin may readily be removed for the purpose of cleaning, and the bore of the barrel may also be readily inspected or cleaned, no obstruction being in line therewith.

What I claim is—

1. In a firearm, a barrel portion detachable from the stock portion, a side plate carried by the barrel portion said plate being recessed at its rear and having a tenon adjacent said recess, said stock portion carrying a side plate having a tenon toward its forward or free extremity, the opposite side of said stock portion carrying an abutment or shoulder fitting substantially the recess in the plate carried

by the barrel portion, and an undercut recess or mortise in the reinforce of the barrel portion and coincident with the tenon on the forward end of the plate carried by the stock portion.

2. In a firearm, a barrel portion detachable from the stock portion, a side plate carried by the barrel portion and recessed at its rear end, and having a tenon adjacent to said recess, said stock portion carrying a side plate having a tenon toward its forward extremity, an abutment on the stock portion coincident with the recess in the plate carried by the barrel portion, a recess or mortise in the reinforce of the barrel portion coincident with the tenon on the forward end of the plate carried by the stock portion, and means for holding said parts in their engaged position.

3. In a firearm, a barrel portion detachable from the stock portion, a side plate carried by the barrel portion and recessed at its rear end, and having a tenon adjacent to said recess, said stock portion carrying a side plate having a tenon toward its forward extremity, an abutment on the stock portion coincident with the recess in the plate carried by the barrel portion, a recess or mortise in the reinforce of the barrel portion coincident with the tenon on the forward end of the plate carried by the stock portion, and means for holding said parts in their engaged position, comprising a bolt passing through one of the side plates and engaging the other side plate and a suitable head or shoulder on said bolt outside of said first-mentioned plate.

4. In a firearm, a barrel portion carrying a rearwardly-extending side plate, a stock portion carrying a forwardly-extending side plate, attaching-tenons carried by said plates, a recess in the stock portion to receive the tenon of the barrel portion, and a recess in the barrel portion to receive the tenon of the stock portion, and means for detachably holding said parts in an engaged position.

5. In a firearm, a barrel portion carrying a rearwardly-extending side plate, a stock portion carrying a forwardly-extending side plate, attaching-tenons carried by said plates, one of said tenons being dovetailed, a recess in the stock portion to receive the tenon of the barrel portion, and a recess in the barrel portion to receive the tenon of the stock portion, the recess adapted to carry the dovetailed tenon being shaped to retain the same against longitudinal displacement, and means for preventing lateral displacement of said side plates.

6. In a firearm, a barrel portion carrying a rearwardly-extending side plate, a stock portion carrying a forwardly-extending side plate, attaching-tenons carried by said side plates at their free extremities, a dovetailed recess in the stock portion to receive the correspondingly-shaped tenon of the barrel portion, and an undercut recess in the barrel portion to receive the correspondingly-shaped tenon of the stock portion, a manually-con-

trolled bolt in said side plates between the bearing-points thereof, and adapted to detachably secure said side plates against lateral displacement.

5 7. In a firearm, a barrel portion carrying a rearwardly-extending side plate, and an overlapping top piece, a projection carried by said side plate underneath said top piece and spaced apart therefrom, a reciprocating
10 breech-bolt in the space between said top plate and said projection, and means for detachably holding said breech-bolt in its operative position.

15 8. In a magazine-firearm, a barrel portion carrying a rearwardly-extending side plate, a top piece carried thereby, a projection carried by said side plate underneath said top piece, a breech-bolt sliding in the space be-

tween said top plate and said projection, a stock portion carrying a forwardly-extending side plate, and means for detachably securing said parts in the operative position.

9. In a magazine-firearm, a breech-bolt sliding in the frame, one side of said breech-bolt lying substantially flush with the frame, 25 a supporting projection carried by the frame and underneath said breech-bolt, a groove in said breech-bolt adjacent said projection, and a rib on said projection registering with said groove, one portion of said groove being 30 cut away to permit the said breech-bolt to be detachably secured to the frame.

LEWIS L. HEPBURN.

Witnesses:

J. M. MARLIN,
M. E. WARD.