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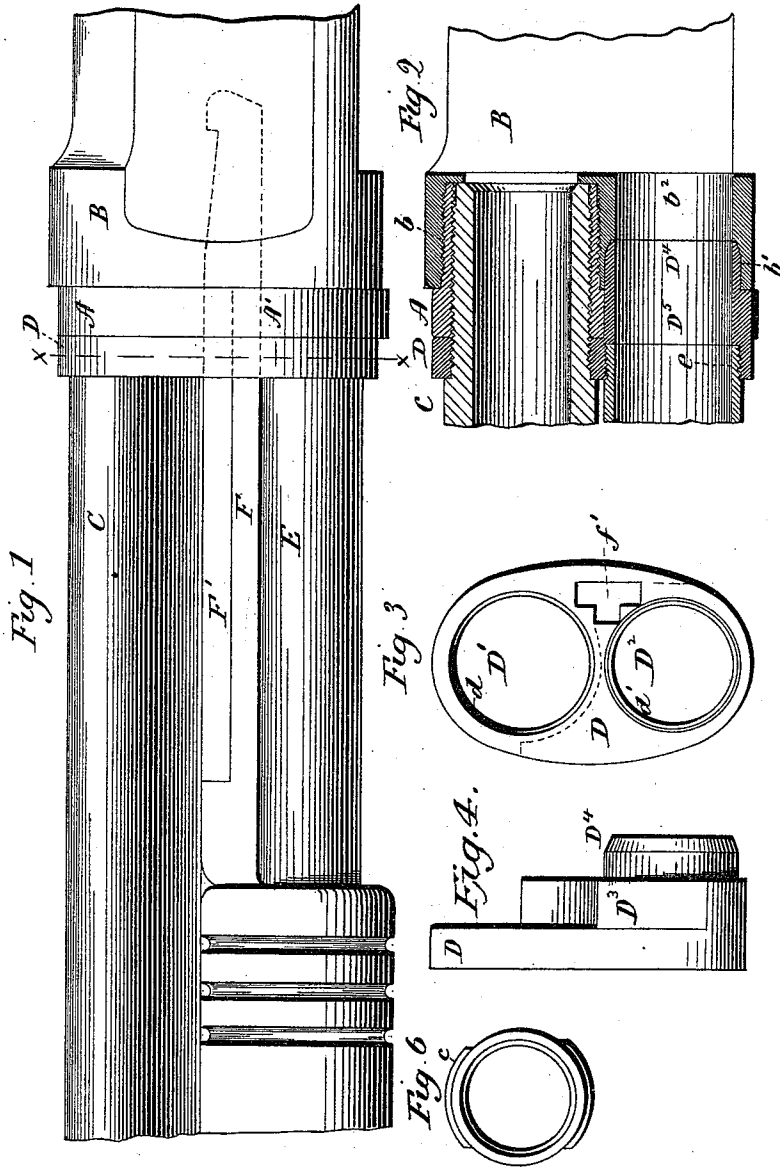
2 Sheets—Sheet 1.

W. MASON.

MEANS FOR SEPARABLY ATTACHING GUN BARRELS TO STOCKS.

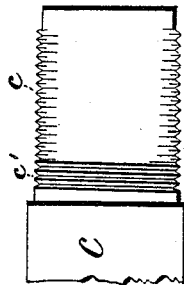
No. 499,464.

Patented June 13, 1893.



Witnesses.
J. H. Shumway
Lillian D. Kellogg

Fig. 5



William Mason
Inventor
By atty.
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(No Model.)

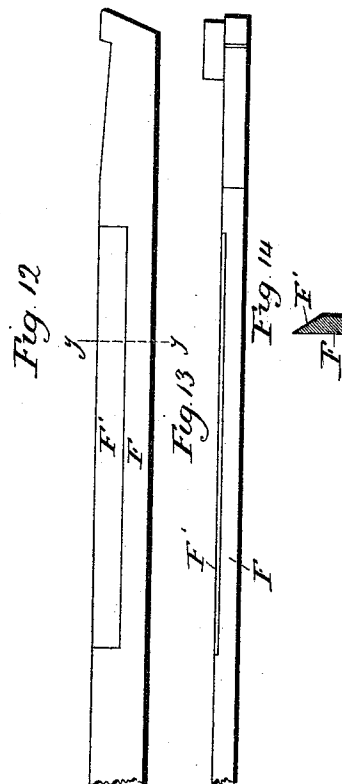
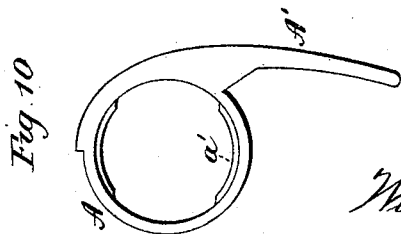
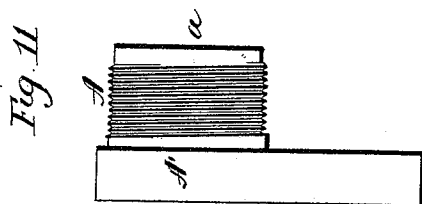
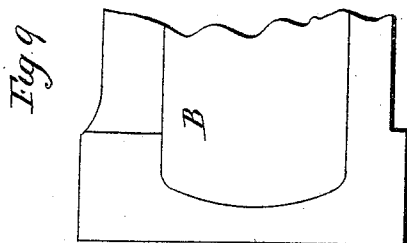
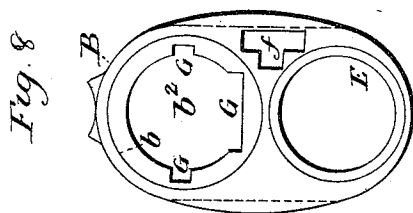
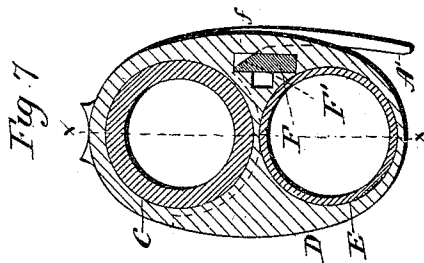
2 Sheets—Sheet 2.

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MEANS FOR SEPARABLY ATTACHING GUN BARRELS TO STOCKS.

No. 499,464.

Patented June 13, 1893.



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MEANS FOR SEPARABLY ATTACHING GUN-BARRELS TO STOCKS.

SPECIFICATION forming part of Letters Patent No. 499,464, dated June 13, 1893.

Application filed January 24, 1893. Serial No. 459,553. (No model.)

To all whom it may concern,

Be it known that I, WILLIAM MASON, of New Haven, in the county of New Haven and State of Connecticut, have invented a new
5 Improvement in Magazine-Firearms; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a broken view in side elevation of a magazine-gun constructed in accordance with my invention; Fig. 2, a broken view in
15 vertical longitudinal section through the barrel, magazine, receiver, yoke, and intermediate coupling-piece, showing the said parts in their assembled positions; Fig. 3, a detached view in front elevation of the yoke which secures
20 the magazine and the barrel together; Fig. 4, a view of the yoke in side elevation; Fig. 5, a broken view in side elevation of the threaded butt-end of the barrel; Fig. 6, an end view thereof; Fig. 7, a view in vertical transverse
25 section on the line $x-x$ of Fig. 1; Fig. 8, a detached view in front elevation of the receiver; Fig. 9, a similar broken view thereof in side elevation; Fig. 10, a detached view in front
30 elevation of the intermediate coupling-piece; Fig. 11, a similar view of the same in side elevation; Fig. 12, a detached view in side elevation of the operating-slide; Fig. 13, a similar plan view thereof; Fig. 14, a view of the slide
in transverse section on the line $y-y$.

35 My invention relates to an improvement in magazine fire-arms, the object being to produce a simple and effective arm, composed of few parts constructed and arranged with special reference to convenience in taking it apart
40 and re-assembling it.

With these ends in view, my invention consists in the combination with the barrel and the receiver of the gun, of an intermediate
45 coupling-piece composed of a sleeve having interior and exterior threads which take into corresponding threads formed on the barrel and in the receiver, and of a lever offsetting
50 from the said sleeve for turning the same.

My invention further consists in certain details of construction and combinations of parts

as will be hereinafter described and pointed out in the claims.

As herein shown my improved intermediate coupling-piece is composed of a sleeve A, and a handle A', located at its forward end, 55 and situated in a plane at a right angle to the plane of its bore. The said sleeve A, is provided upon its exterior surface with a continuous right-hand thread a , as shown by Fig. 11 of the drawings, while its interior surface is constructed with an interrupted left-hand thread a' , as shown in Fig. 10 of the drawings, the said threads being arranged so that when the piece is in position, its handle
60 will extend directly downward, as shown in the figure last mentioned. The continuous right-hand thread a , formed upon the exterior of the sleeve A, takes into a corresponding thread b , formed upon the interior of a recess b^2 , formed in the upper portion of the
65 forward end of the receiver B, of the arm, the said receiver being of ordinary construction. On the other hand, the interrupted left-hand thread a' , formed upon the inside of the sleeve A, takes into a corresponding
70 interrupted left-hand thread c , formed upon the exterior surface of the reduced butt end of the barrel C, the said threaded portion of the barrel being also provided with a continuous thread c' , forming a continuation of the
75 interrupted thread c , and located between the same and the body of the barrel. The said barrel, intermediate piece and receiver, are all constructed, with respect to their threads, so that when the sleeve on the intermediate
80 piece wants but a quarter turn of being screwed home in the receiver, the gun-barrel may be slipped into it, after which the intermediate piece is given a quarter turn by means of its handle or operating lever, causing its
85 internal interrupted thread to take into the corresponding thread of the barrel, and firmly bind the three parts together. To disconnect the barrel, it will be sufficient to give the intermediate piece a quarter turn by means of
90 its operating lever, thus disengaging its interrupted thread from the interrupted thread of the barrel, which may then be removed.

As herein shown, also, I employ in connection with my improved intermediate piece, a 100

yoke D for coupling the barrel C, and the magazine E, together. This yoke, which is shown in front elevation in Fig. 3 of the drawings, is oblong in form, and has rounded ends. It is constructed with a barrel opening D', formed in its upper portion, and with a magazine opening D² formed in its lower portion. The said opening D', contains an internal left-hand thread d, which takes into the corresponding thread c', formed on the gun barrel, as before mentioned, and shown by Fig. 5 of the drawings, while the opening D² has an internal thread d', which receives the thread e, formed at the extreme inner end of the magazine, as shown by Fig. 2 of the drawings.

A shoulder D³, located upon the rear face of the yoke, forms the complement of the intermediate piece, or, in other words, it fills out and completes the structure of the gun at that point therein where the intermediate piece is located. The form of this shoulder will be seen in Figs. 3 and 4 of the drawings. The said yoke also comprises a collar D⁴, which is located at its lower end concentric with its magazine opening D², and extends rearward so as to pass under the intermediate piece, and into the enlarged outer end b' of the circular chamber b² formed in the lower portion of the receiver in line with the magazine to receive the cartridges therefrom preparatory to their elevation to the plane of the gun-barrel. An opening D⁵, (Fig. 2) formed in the shoulder D³, concentric with the magazine opening D², and with the opening of the collar D⁴, co-operates with the said opening D⁴, in forming a virtual continuation of the magazine. The arm is also provided with the usual operating slide F, having bearing in a slot f, (Fig. 8) formed in the receiver, and also in a slot f' (Fig. 3) formed for it in the yoke D. The upper outer edge of the said slide is cut away, as at F', to clear the handle-lever A', of the intermediate coupling-piece, as shown by Fig. 7 of the drawings, the said handle-lever in this way forming a stop to limit the endwise play of the slide.

Otherwise than described, the arm may be of any approved construction for this class of guns, which are well understood by those skilled in the art to which they relate. Thus, in Fig. 8 of the drawings the receiver is shown to be provided with notches G, G, G, for the accommodation of the extractor, which is not shown. I would therefore have it understood that I do not limit myself to the exact construction herein shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention. Thus, if preferred, the continuous thread might be located on the inside of the sleeve of the intermediate coupling-piece, and the interrupted thread on the outside thereof, in which case

the interrupted thread would be located in the receiver, and the continuous thread on the barrel, instead of reversely, as herein provided for. If preferred also, I may employ my improved intermediate piece in connection with other devices than the yoke for coupling the barrel and magazine. It will be readily understood that by means of the said piece, the barrel may be removed and replaced very readily, and without the exercise of any particular skill.

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

1. In a magazine gun, the combination with the barrel and the receiver thereof, of an intermediate coupling-piece having a sleeve furnished with interior and exterior threads, which take into threads formed in the said barrel and receiver and a handle by which the said sleeve is turned, substantially as described.

2. In a magazine gun, the combination with the barrel and the receiver thereof, of an intermediate coupling-piece comprising a sleeve having exterior and interior threads, the threads in one place being interrupted to take into corresponding threads on one of the other parts, and a handle offsetting from the said sleeve for turning the same, substantially as described.

3. In a magazine gun, the combination with the barrel and the receiver thereof, of an intermediate coupling-piece comprising a sleeve having continuous exterior screw threads and interrupted interior screw-threads to take into corresponding threads formed in the receiver and on the barrel, and a handle offsetting from the said sleeve for turning the same, substantially as described.

4. In a magazine gun, the combination with the barrel, the magazine and the receiver thereof, of an intermediate coupling-piece comprising a sleeve having interior and exterior threads taking into corresponding threads in the said parts, and having a handle offsetting from the said sleeve for turning the same, a yoke comprising a plate having threaded openings to receive the barrel and magazine, a shoulder formed upon the inner face of the said plate to form a complement to the sleeve of the coupling-piece, and a collar which extends rearward from the said shoulder into the receiver; and an operating slide having its edge cut away to receive the handle of the coupling-piece which forms a stop for it, substantially as described.

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

WILLIAM MASON.

Witnesses:

FRED C. EARLE,
GEO. D. SEYMOUR.