May 25, 1954 H. H. SEFRIED II 2,679,124

ASSEMBLY FOR THE BARREL, RECEIVER, MAGAZINE, AND STOCK OF FIREARMS

Filed June 16, 1950

Fig. 1.

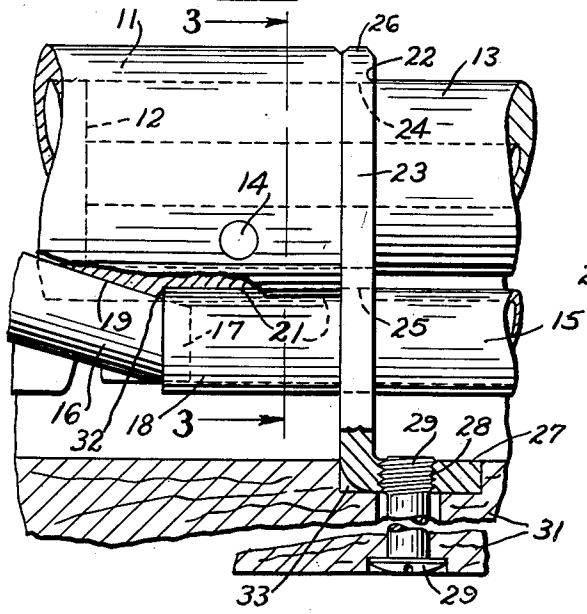


Fig. 2.

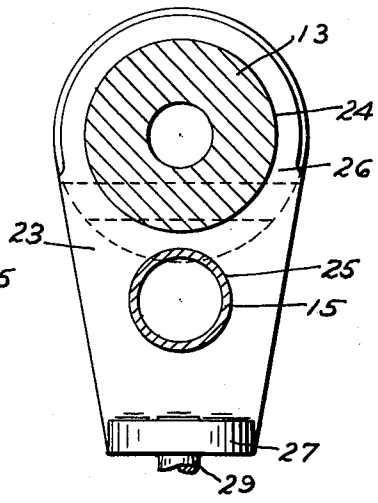


Fig. 3.

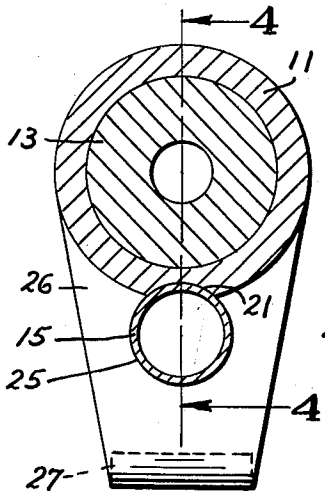


Fig. 4.

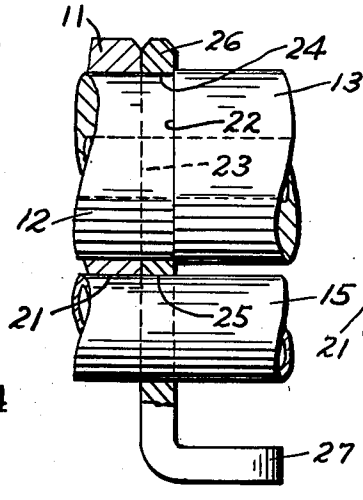
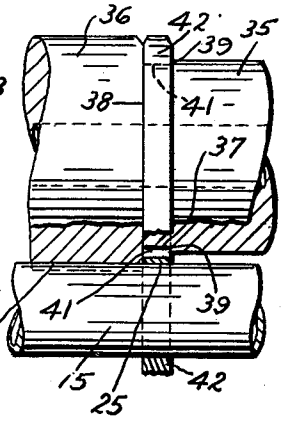


Fig. 5.



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ASSEMBLY FOR THE BARREL, RECEIVER, MAGAZINE, AND STOCK OF FIREARMS

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4 Claims. (Cl. 42—75)

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This invention relates to firearms and more particularly to an improvement thereof constituted by a new and useful means by the provision of which the firearm barrel, receiver, and a tubular cartridge magazine will be positively located in respect to each other and to the firearm butt stock, when the firearm is assembled.

One object of this invention is to provide in a firearm cooperating means to locate a tubular magazine in respect to a receiver.

Another object is to provide in a firearm cooperating means to locate a cartridge guiding throat in respect to the magazine and receiver of said firearm.

A further object is to provide in a firearm means to locate and assemble the receiver and tubular magazine properly located in respect to each other to a barrel extending from the receiver.

A further object is to provide improvements in firearms which will be relatively inexpensive to manufacture, simple in construction, compact, of pleasing appearance, and very efficient and durable in use.

With these and other objects in view, which will appear as the description proceeds, there has been illustrated in the drawings two forms in which the features and principles of this invention may be conveniently and practically embodied.

In the drawings:

Figure 1 shows broken and partially sectioned portions of a firearm embodying the features and principles of this invention;

Figure 2 is an end view of the same;

Figure 3 is a cross-sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a vertical sectional view taken on the line 4—4 of Figure 3; and

Figure 5 is a view showing a slightly modified form.

Referring now to the drawings wherein like reference numerals designate like parts throughout the several views, the reference numeral 11 denotes a firearm receiver of hollow cylindrical form. The breech end 12 of a barrel 13 is inserted in the forward end of the receiver, wherein it snugly fits, and is secured therein by a cross pin 14. A tubular cartridge magazine 15 extends along the barrel 13, being spaced slightly below the same. A cartridge guiding throat 16, having an end 17 received in the rear end 18 of the magazine 15, extends upwardly at an angle to the axis of the magazine into the receiver 11.

The receiver 11 is provided in its underside, with a forwardly and downwardly inclined groove 19 in which the throat 16 is adapted to seat, and with an arcuate groove 21 leading inwardly from its front end and being generally parallel to the axis of the receiver in which the rear end 18 of the magazine is adapted to seat. The lengthwise axes of grooves 19 and 21 are substantially in

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alignment whereby the throat 16 and magazine 15 will be properly located in respect to each other and to the receiver when they are seated in the grooves 19 and 21 respectively.

The breech end 12 of the barrel 13 is of smaller diameter than the portion of the barrel extending out of the receiver 11, whereby a rearwardly directed annular shoulder 22 is formed on said barrel. An assembly lug 23 is provided and has an opening 24 therein to rotatively receive the breech end 12 of the barrel 13. Below the opening 24, the assembly lug is provided with another opening 25 through which the tubular magazine 15 extends and is rotatable therein. The openings 24 and 25 in the assembly lug 23 are spaced apart the proper amount to insure the desired location of the magazine 15 in respect to the barrel 13.

The assembly lug 23 is generally L-shaped in cross-section having an upper plate portion 26 proportionally long in length in respect to a shorter tongue portion 27, which tongue portion 27 is substantially at right angles to the plate portion 26. The openings 24 and 25 are formed in the plate portion 26. The tongue portion 27 has a threaded hole 28 therethrough to receive an assembly screw 29 by which a firearm butt-stock 31 is fastened to the assembly lug 23.

The above firearm parts are assembled by first slipping the barrel breech end 12 through the opening 24 in the lug plate portion 26 until the latter abuts the shoulder 22. The receiver 11 is then pressed onto the breech end 12 and tightly up against the lug plate portion 26, and the pin 14, the holes for which have been previously formed and properly located in both the receiver 11 and in the barrel breech end 12, is inserted. The magazine 15 is now slipped through the opening 25 in the lug plate portion 26 and the assembly lug 23 is rotated on the barrel breech end 12 until the magazine end 18 aligns with the groove 21 in the receiver 11, whereupon the magazine 15 is firmly pressed rearwardly into abutment with a shoulder 32 at the rear end of the groove 21. The cartridge guiding throat end 17 is now pressed into the end 18 of the magazine and seated in the groove 19 in the receiver 11. The butt-stock 31 is now disposed upon the assembled parts with the tongue portion 27 seated in and located by a cut out depression 33 in the butt-stock 31 and clamped to the assembly lug 23 by screwing the screw 29 into the threaded hole 28 in the assembly lug tongue 27.

In Figure 5 a barrel portion 35 is shown integral with and extending from a receiver portion 36. A circumferential groove 37 is formed about the barrel portion 35 adjacent the forward end 38 of the receiver portion 35 to provide a shoulder 39. The opening 41, in the assembly lug 42, corresponding to the opening 24 in the previously described form, is of sufficient diameter to permit the assembly lug to be slipped over the

barrel portion 35 and seated in the groove 37 to abut the shoulder 39 and thus properly locate the associated parts as in the previously described form.

By the provision of the above described novel structure in a firearm, the parts constituting such structure may be readily and accurately assembled together in the proper and desired location in respect to each other and firmly secured together as so located. The particular form of assembly lug whereby the magazine and barrel are assembled and held in the desired position and whereby the magazine may be swung about the barrel to align it with a locating groove in the receiver provides for rapid and accurate assembly of these parts together. By the addition of the tongue 27 these assembled parts may readily and accurately be assembled to the butt-stock.

While there has been shown and described herein two forms of firearm improvement in which the features and principles of this invention are embodied, it will be understood that the same may be embodied in other specific forms without departing from the spirit and essential attributes thereof, and it is therefore desired that the present embodiment be considered in all respects as illustrative and not restrictive, reference being had to the claims rather than to the foregoing description to indicate the scope of the invention.

Having thus fully disclosed the invention, what is claimed as new and for which it is desired to secure Letters Patent, is:

1. In a firearm having a barrel and a tubular magazine disposed below and extending along said barrel, said barrel having a portion of reduced diameter at the breech end thereof and being provided with a rearwardly directed shoulder at the forward end of said portion, a receiver having a forward end presenting an abutment and a barrel-receiving opening in said end, said receiver having an arcuate groove in the underside thereof to receive and position the rear end of said tubular magazine, an assembly lug having a part thereof in the form of a plate adapted to be slipped over the reduced portion of said barrel to abut the shoulder thereof, said barrel portion being disposed in said barrel-receiving opening in the receiver and said end of the receiver abutting said plate, said plate having an apertured magazine-supporting portion aligning with said groove in the underside of the receiver and preventing displacement of said magazine, said assembly lug having a substantially horizontal tongue extending from the lower end of said plate and adapted to seat upon a stock, a stock, and a stock-attaching member extending through said stock and engaging said tongue to attach said stock to said tongue.

2. In a firearm having a barrel and a tubular magazine disposed below and extending along said barrel, said barrel having a portion of reduced diameter at the breech end thereof and being provided with a rearwardly directed shoulder at the forward end of said portion, a receiver having a forward end presenting an abutment and a barrel-receiving opening in said end, said receiver having an arcuate groove in the underside thereof to receive and position the rear end of said tubular magazine, an assembly lug having a part thereof in the form of a plate adapted to be slipped over the reduced portion of said barrel to abut the shoulder thereof, said barrel portion being adapted to be slipped into said barrel-receiving opening in the receiver, said plate having a rearwardly directed face abutting said end of the receiver, said receiver having a transverse bore therein, said barrel portion having a transverse bore therein aligning with said bore in the receiver, a pin in said transverse bores securing said barrel to said receiver, said plate having an apertured magazine-supporting portion aligning with said groove in the underside of the receiver and preventing displacement of said magazine, said assembly lug having a substantially horizontal tongue extending from the lower end of said plate and adapted to seat upon a stock, a stock, and a stock-attaching member extending through said stock and engaging said tongue to attach said stock to said tongue.

3. In a firearm having a barrel and a tubular magazine disposed below and extending along said barrel, a receiver extending from the breech end of the barrel and having a forward end presenting an abutment, said receiver having an arcuate groove in the underside thereof to receive and position the rear end of said magazine, said barrel having a rearwardly directed shoulder spaced forwardly from said forward end of the receiver, said barrel being formed integrally with said receiver, a slip-on assembly member comprising a plate having an apertured portion through which said barrel extends, said plate portion being adapted to extend between said shoulder of the barrel, and said forward end of the receiver presenting an abutment, said plate having an apertured magazine-supporting portion through which said magazine extends and aligning with said groove in the underside of the receiver, said assembly member having a substantially horizontal tongue extending from the lower end of said plate and adapted to seat upon a stock, a stock, and a stock-attaching member extending through said stock and engaging said tongue to attach said stock to said tongue.

4. In a firearm having a barrel and a tubular magazine disposed below and extending along said barrel, a receiver extending from the breech end of the barrel and having a forward end presenting an abutment, said receiver having an arcuate groove in the underside thereof to receive and position the rear end of said tubular magazine, said barrel being provided with a rearwardly directed shoulder spaced forwardly from said forward end of the receiver, a slip-on assembly member comprising a plate having an apertured portion through which said barrel extends, said portion being adapted to extend between said shoulder of the barrel and said forward end of the receiver, said plate having an apertured magazine-supporting portion through which said magazine extends and aligning with said groove in the underside of the receiver, said assembly member having a substantially horizontal tongue extending from the lower end of said plate and adapted to seat upon a stock, a stock, and a stock-attaching member extending through said stock and engaging said tongue to attach said stock to said tongue.

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