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ADJUSTABLE GUNSTOCK

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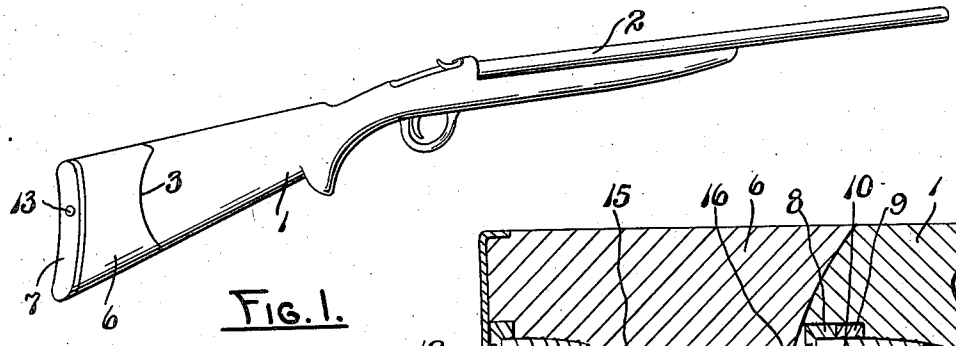


FIG. 1.

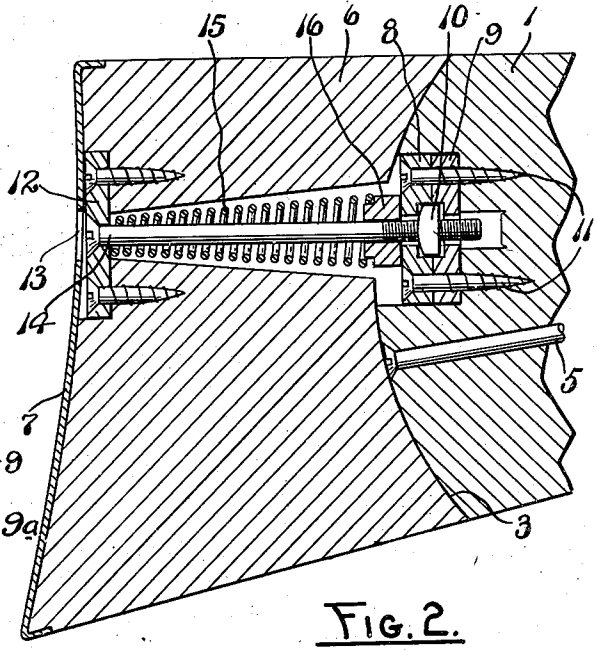


FIG. 2.

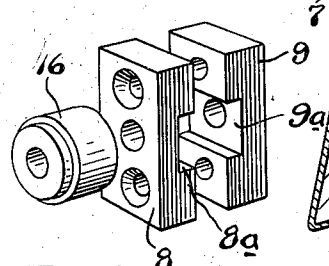


FIG. 4.

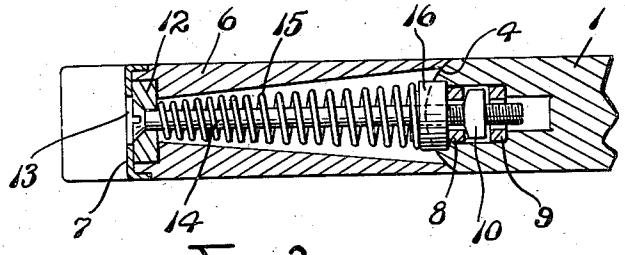


FIG. 3.

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ADJUSTABLE GUNSTOCK

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5 Claims. (Cl. 42—73)

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This invention is concerned with guns, and more particularly with fire arms which are individually used, each having a stock and barrel and which, when fired, the butt of the stock is pressed against the shoulder and sighting is along a barrel toward the target. Guns of such character, rifles, shot guns and the like, upon pulling the trigger and with the resultant firing of the explosive charge in the barrel, under the forces generated have a tendency to be pulled aside or jump upwardly. The present invention is directed to an improvement in the gun stock for obviating, in a great degree, such tendencies compensating therefor so that a holding of the barrel against movement upon firing and in proper alined position with reference to the target shot at is obtained.

It is a primary object and purpose of the present invention to provide a practical, readily manufactured and applied gun stock of novel construction for attainment of better results in shooting and obtaining or greatly lessening undesired movements of the gun barrel when shooting takes place.

An understanding of the invention may be had from the following description, taken in connection with the accompanying drawing, in which

Fig. 1 is a perspective view of a gun equipped with my invention.

Fig. 2 is a fragmentary enlarged longitudinal vertical section through the outer end portion of a gun stock having my invention applied thereto.

Fig. 3 is a similar horizontal section, and

Fig. 4 illustrates in perspective a number of the interior parts which are used in the embodiment of my invention.

Like reference characters refer to like parts in the different figures in the drawing.

The gun may be of a conventional small arms type having a stock 1 from which a barrel 2 extends. With my invention the stock is shortened at its outer end and the outer free end thereof is formed substantially as the arc of a circle, as at 3, from its upper to its lower side, and is also in the arc of a circle transversely, as at 4, providing in effect a transverse curved convex rib at the rear end of the stock portion 1. The rod 5 (Fig. 2) extends through the stock portion 1 forwardly and upwardly for connection thereof to the barrel in the assembly of the stock and barrel, according to conventional practice.

At the rear end of the stock portion 1, a member 6 which is a continuation of the stock, and which together with the stock portion 1 makes a complete stock of proper length, is located, its

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forward side having a concaved recessed formation complementary to the convex rib at the back end of the stock portion 1. Said member 6 at its outer end has the usual metal plate 7 secured thereto and which in the firing of the gun is pressed against the shoulder.

In the outer or back end of the stock portion 1 a recess is cut to receive two blocks 8 and 9 of substantially identical form located against each other at their adjacent face portions they are recessed, as at 8a and 9a, respectively. When the two blocks 8 and 9 are placed together a nut 10 is seated in said recesses. The blocks 8 and 9, near their ends, have screw passing opening for screws 11 which are driven into the stock portion 1 as best shown in Fig. 2 to secure blocks 8 and 9 in place.

The member 6 at its outer end inside of the plate 7, is also recessed substantially in horizontal alinement with the recess containing the blocks 8 and 9. A relatively heavy plate 12 is located and secured therein by screws. The butt plate 7 has an opening 13 immediately in front of which is a long screw 14, the head of which is accessible for turning by a screw driver through the opening 13. At its inner end portion, the shank of the screw 14 is threaded and passes through openings in blocks 8 and 9 and is secured through the nut 10, its inner end extending into a recess therefor in the stock part 1.

A coiled compression spring 15 is located around the shank of the elongated screw 14, at its outer end bearing against the plate 12, and at its inner end against a cylindrical block 16 which seats against the block 8, as shown in Fig. 2. The member 6 is bored or otherwise provided with an opening or passage for the reception of the spring 15, screw 14 and block 16, as shown.

With the construction described there is permitted a limited universal movement of the outer end member 6 of the stock with respect to the forward larger stock portion 1. By tightening the screw 14, by threading it further through the nut 10, the complementary surfaces of the surfaces of the stock members 1 and 6 may be held against each other with greater or lesser degrees of friction producing force. The amount of turning of screw 14 in any event will be small, for varying the frictional engagement of the parts 1 and 6 against each other, and the owner of any gun can adjust the screw 14 through the nut 10 to obtain the best conditions for himself. Of course, the spring 15 may also be varied as to strength.

With the present invention, upon pulling the

trigger and exploding the charge, the forces which tend to jerk the gun barrel off of the target and change its position are transmitted to the member 6 which may move relative to the stock member 1, thereby greatly lessening the tendency of the barrel to move. Such tendency to move is carried to the back member 6 of the gun stock, which by the construction outlined, is permitted a compensating movement without the previous movement of the gun barrel, which theretofore had been detrimental to proper holding of the gun on the target when firing takes place.

It is of course to be understood that the outer side of the nut 10 will be rounded as shown for easy movement. It is further to be understood that the spring 15 shown as of a conical form does not necessarily require such form, but may be of a cylindrical form.

The invention upon full test and trial has proved very satisfactory in use. The appended claims define the invention which is to be comprehensive of all forms of structure within their scope.

I claim:

1. A gun having a stock in two parts, one a relatively long front portion and the other a shorter butt portion at the rear end thereof, said front and butt portions being located in alinement and having complementary adjacent curved end surfaces adapted to engage each other and permit a universal movement of one with respect to the other, a member secured at the rear end of the front stock portion, a nut carried by said member, a screw threaded rod extending through the butt portion and passing through said nut, said nut having a limited rocking movement with respect to the member which carries it whereby the butt portion of the stock may have a limited universal movement with respect to the front portion thereof.

2. In a construction as defined in claim 1, a member through which the screw threaded rod passes secured at the rear end of the butt portion of the stock, said screw threaded rod having a head at its rear end engaging with said member, and a coiled compression spring around said rod between said member carried by the butt and the nut carrying member connected with the front stock portion.

3. In a construction as described, a gun stock of two parts including a front relatively long stock portion and a shorter butt portion in alinement therewith located at its rear end, the adjacent ends of said front and butt stock portions, one having a curved convex form from its upper to its lower edge in the arc of a circle and also curved convexly in the arc of a circle from one side to the other, and the other having complementary surfaces of convex form to seat thereagainst, a member comprising two blocks located one against the other secured at the rear end of the front stock portion, said front stock portion being recessed to receive them, said blocks at adjacent sides having recesses in conjunction with each other forming a chamber, a nut seated in said recesses, a plate secured at the rear end of the butt portion, an elongated headed screw passing through said plate and through said blocks and threading through said nut, the openings in said blocks through which the rod passes being of larger area than the cross section of the rod.

4. A construction as defined in claim 3, and a butt plate secured at the rear end of said butt portion of the stock covering the same, said plate having an opening through which access to the head of the screw is obtained.

5. A construction as defined in claim 3, a member located at the rear side of the rearmost block, said screw threaded rod passing therethrough, and a coiled compression spring around the rod between said rear plate and said member.

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