Feb. 28, 1950 C. H. BENSON 2,498,749

FOREARM FOR FIREARMS

Filed Aug. 21, 1947

Fig. 1.

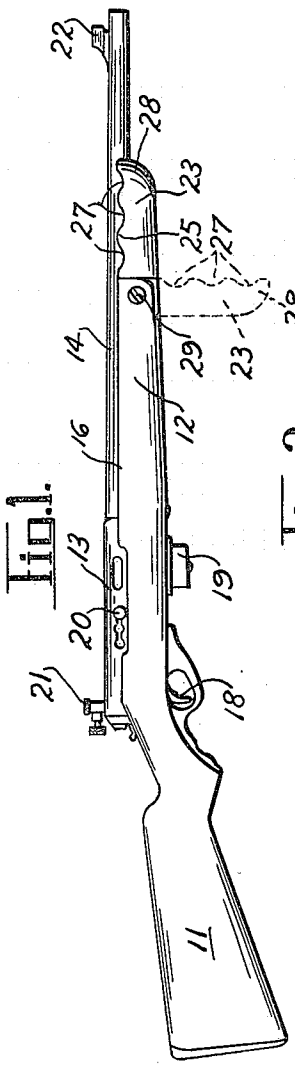


Fig. 2.

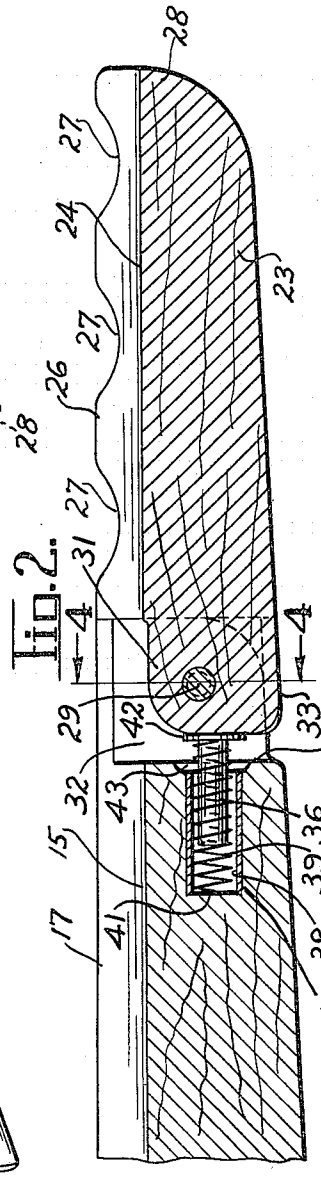


Fig. 4.

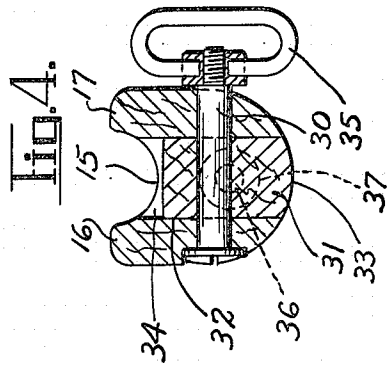
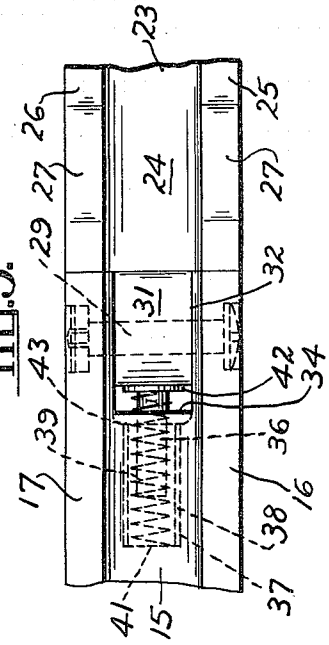


Fig. 3.



Inventor

Carl H. Benson.

By Walter S. Edwards.

Attorney

Patented Feb. 28, 1950 2,498,749

UNITED STATES PATENT OFFICE

2,498,749

FOREARM FOR FIREARMS

Carl H. Benson, New Haven, Conn., assignor to O. F. Mossberg & Sons, Inc., New Haven, Conn., a corporation of Connecticut

Application August 21, 1947, Serial No. 769,859

4 Claims. (Cl. 42—71)

1

This invention relates to forearms for firearms and more particularly to a utility forearm adapted for use with a firearm to enhance the ornamental appearance of the same, to provide a novel and useful hand grip for the firearm, and, if desired, to provide a steady rest for the same.

The principal object of this invention is to provide for a firearm a utility forearm having a tip of ornamental appearance and adapted to be moved into position to act as a hand grip, or firearm steady rest.

A further object is to provide a forearm for a firearm which will be relatively inexpensive to manufacture, simple in construction, compact, of ornamental appearance, and which is very efficient and useful.

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

In the drawings:

Figure 1 is a side view of a firearm having a forearm embodying in its structure the features and principles of this invention;

Figure 2 is a longitudinal sectional view of the forearm of this invention;

Figure 3 is a top view of a broken portion of the forearm shown in Figure 2; and

Figure 4 is a cross-sectional view of the forearm taken on the line 4—4 of Figure 2.

Referring now to the drawings wherein like reference numerals designate like parts throughout the several views, the reference numeral 11 denotes a firearm stock, having, in this instance, a forearm part 12 formed integral therewith, a receiver 13 having a barrel 14 secured thereto and extending therefrom is mounted in the stock 11, the forearm part 12 being disposed below the barrel 14 and having a longitudinal groove 15 therein which is arcuate in cross-section to receive the barrel 14, and forms sides 16 and 17 which extend upwardly about the barrel. The usual firearms parts, such as a trigger 18, a magazine 19, an operating handle 20, and sights 21 and 22 are also provided.

In accordance with the principles of the present invention the forearm part 12 is provided with a tip 23 which has a longitudinally extending arcuate groove 24 to snugly fit around the barrel 14, and forming sides 25 and 26 which extend upwardly along the sides of the barrel 14. To provide an ornamental appearance as well as to serve a useful purpose the upper edges of the

2

sides 25 and 26 are cross-grooved, in this instance three cross-grooves 27 are provided. The forearm tip 23 is arranged to be swung downwardly away from the barrel 14 to form a hand grip, see dotted lines in Figure 1, or, by resting its end 28 upon a support, to form a steady rest for the firearm.

The forearm tip 23 is adapted to be swung upon a pivot pin 29 which extends transversely through the rear end of the tip 23 and the front end of the forearm part 12. In this instance a tongue 31 is formed on the rear end of the tip 23 adapted to fit into a groove 32 provided in the front end of the forearm part 12 to receive the same. The pivot pin 29 is so located that the under surface 33 of the rear end of the tip 23 will abut the front surface of a shoulder 34 of the forearm part 12 formed by the groove 32, to insure that the tip when it is swung downwardly will be rigidly supported in the desired position. The pivot pin 29 may be as shown in Figure 3 or it may be of the form shown at 30 in Figure 4 to also form the attaching means for a sling belt loop 35.

The forearm tips 23, when it is in barrel engaging position, as shown in full lines in Figure 1, is maintained in snug engagement with the barrel 14 by means of a spring pressed plunger 36. The plunger 36 is arranged to actuate within a bore 37 formed in the front end of the forearm part 12. This instance the bore 37 is lined with a metallic tube 38. A coiled spring 39 is disposed in the bore 36, or tube 37, and reacts between the inner end 41 of the bore and a head 42, provided on the outer end of the plunger 36, to constantly urge the plunger outwardly and, into pressing engagement with the rear end of the tip 23, when the forearm part 12 is against the barrel 14, or into pressing engagement against the lower surface 33 of the rear end of the tip 23, when the forearm part 12 is swung downwardly to form a hand grip. To insure that the forearm tip 23 is snugly pressed against the barrel 14 by the plunger 36, the axis of the bore 37, and/or the tube 38, is spaced below the axis of the pivot pin 29 whereby a constant upward swinging urge is imposed upon the tip 23. When the tip 23 is swung downwardly the plunger head 42 enters into a counter-bore 43 provided in the shoulders 34.

By the provision of the above described structure, a utility forearm is provided for a firearm which will enhance the ornamental appearance of the latter and be useful as a hand grip, or steady rest for the firearm.

While there has been shown and described herein a preferred form in which the features and principles of this invention are practically 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. A utility forearm for a firearm comprising a forearm part having a vertical groove formed in its forward end, a forearm tip having a tongue upon its rear end to fit into the groove in said forearm part, a pivot pin extending through the forward end of said forearm part and the tongue on said forearm tip, and a spring pressed plunger, carried by said forearm part in a bore therein, the axis of said plunger being below the axis of the pivot pin, in engagement with the rear end of the tongue to urge the forward end of the forearm tip upwardly.

2. A utility forearm for a firearm comprising a forearm part having a vertical groove formed in its forward end, a forearm tip having a tongue upon its rear end to fit into the groove in said forearm part, said tongue having an upper and a lower surface, a pivot pin extending through the forward end of said forearm part and the tongue on said forearm tip, and a forwardly directed shoulder on the forearm part at the bottom of the groove therein, said pivot pin being disposed above the lower surface of the tongue an amount greater than it is disposed below the upper surface of said tongue to insure that said lower surface engages said shoulder to limit the downward swinging movement of said forearm tip on said pivot pin.

3. A utility forearm for a firearm comprising a forearm part having vertical groove formed in its forward end, a forearm tip substantially in alignment with the forearm part and having a tongue upon its rear end to fit into the groove in said forearm part, a pivot pin extending through the forward end of said forearm part and the tongue on said forearm tip, a forwardly directed shoulder on the forearm part at the bottom of the groove therein, a bore formed in the forearm part and extending rearwardly from said shoulder, a plunger in said bore in engagement with the rear end of said tongue, and a spring reacting between the forearm part and the plunger to press the latter against the rear end of the tongue, the axis of the plunger being below the axis of the pivot pin whereby the forearm tip will be urged to swing upwardly about the pivot pin.

4. In a firearm having a barrel, a forearm comprising a forearm part extending forwardly along the rear portion of the firearm barrel, a forearm tip pivoted to the front end of said forearm part and extending substantially in alignment with the forearm part from the front end of the forearm part toward the front end of the barrel and in close engagement with the under surface of the barrel, a pivot pin extending through the forearm part and the forearm tip with its center above the longitudinal axis of the forearm tip, and spring means positioned to react between the front end of the forearm part and the rear end of the forearm tip below the axis of the pivot pin to constantly urge the tip upwardly and into contact with the barrel when the forearm tip is against the barrel.

CARL H. BENSON.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
455,728	Norton	July 7, 1891
1,174,282	Richard	Mar. 7, 1916
1,295,688	Butler	Feb. 25, 1919
2,386,802	Johnson, Jr.	Oct. 16, 1945

FOREIGN PATENTS

Number	Country	Date
2,484	Great Britain	of 1905
195,845	Germany	Dec. 7, 1906
171,768	Germany	June 18, 1906
8,406	Great Britain	of 1909
25,357	Great Britain	of 1913