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STOCK CONSTRUCTION FOR FIREARMS

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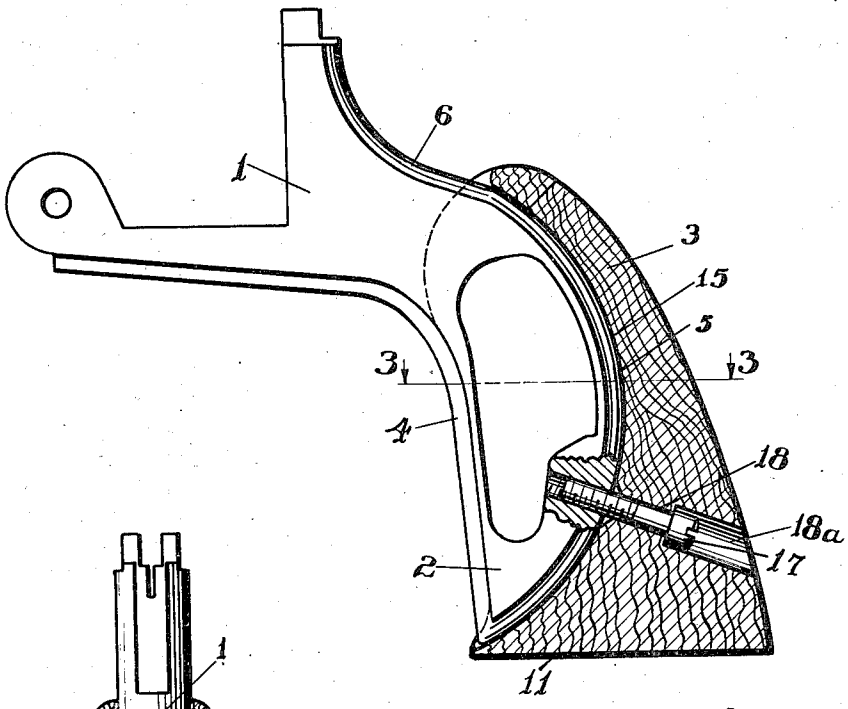


Fig.1.

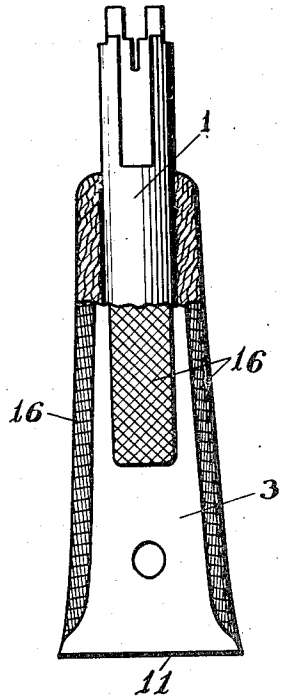


Fig.2

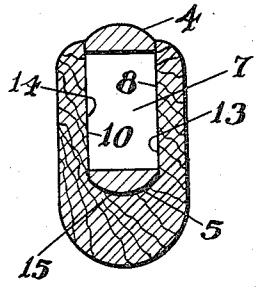


Fig.3.

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STOCK CONSTRUCTION FOR FIREARMS

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2 Claims. (Cl. 42—71)

The present invention relates to stock constructions for firearms and particularly to firearms of the revolver type in which the stock may be readily attached to, or detached from, the frame of the revolver.

In prior constructions of this character, each stock has been formed during the manufacture of the arm to fit a particular frame and the stock, having been fitted, was not interchangeable with other stocks. Consequently, in order to replace a stock of one size or shape by another stock of a different configuration on a particular frame, it has been necessary to perform a certain amount of work on the new stock in order to fit it to the old frame. The principal object of the present invention is accordingly to provide a stock which is readily removable from the frame of the arm and which is interchangeable on the same type of frame with any other stock.

According to the present invention, the frame of the arm is shaped at its forward surface to correspond to the desired shape of the forward edge of the stock and the rearward surface of the frame is formed as a surface of revolution to engage in a recess in the stock having a similar form or configuration, said stock overlying opposite sides of the frame and the forward edge of the stock coinciding with the forward edge of the frame of the firearm.

Other and further objects and advantages of the invention will appear from the following detailed description taken in connection with the accompanying drawing in which:—

Fig. 1 is a side elevation of a firearm frame with the stock attached thereto, said stock being in section to show the construction thereof.

Fig. 2 is a rear end view of the construction of Fig. 1, parts of the stock being shown in section.

Fig. 3 is a sectional view along the line 3—3 of Fig. 1.

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

Referring to the drawing, the firearm frame 1 has an integral depending portion 2 extending downwardly for engagement with the stock 3. The depending portion 2 is substantially rectangular in cross-section as shown in Fig. 3, the forward surface 4 of said portion 2 extending substantially vertically and being curved slightly in horizontal cross-section to provide with the stock a continuous forward surface, the opposite edges of said surface 4 coinciding with the forward edges of the stock 3. The rearward surface 5 of the frame is arcuate in a vertical plane, as best shown in Fig. 1, the upper end of said surface merging with the curved surface 6 of the frame, and said surface 5 is also arcuate in a horizontal plane, as shown in Fig. 3, said surface 5 thus defining a surface of revolution, to coincide with a slot 7 provided in the stock, as will hereinafter appear. The opposite sides 8 and 10 of the frame are parallel to conform to the sides of the slot 7.

Referring to Figs. 1 and 3, the stock 3 is of the usual configuration at the rear and sides, being substantially oval in horizontal cross-section and having a flat bottom 11. The forward surface of the stock conforms substantially to the forward surface of the depending portion of the frame 1. The arcuate slot 7 provided in the stock extends inwardly from the forward surface, said slot 7 having parallel sides 13 and 14 spaced apart a distance corresponding to the thickness of the frame and the bottom or inner surface 15 of the slot is arcuate in both vertical and horizontal planes to correspond to the curvature of the rearward surface 5 of the frame 1. It will be noted that the surface 15 of the slot merges substantially with the forward surface of said stock at the bottom thereof and with the rearward surface of the stock at the upper end, said slot being, throughout its length, equal in depth to the depth of the frame at the corresponding point. Thus when the stock is placed on the frame, said stock overlies the frame on opposite sides, such that the forward edges of the stock coincide with the forward surface of the frame. The sides and rear surfaces of the handle are desirably roughened by checking or knurling 16.

In order to removably secure the stock 3 to the frame 1, a screw 17 extends through an opening 18 in the stock with its head seated at the bottom of a countersunk portion 18a of opening 18 and its end threaded into the frame portion 2. This screw 17 holds the stock 3 against sliding movement on the curved frame surface 5, as well as against removal from the frame.

From the foregoing it will be apparent that the slot in the stock may be formed in one operation by a circular cutter, and will then fit the frame, the cooperating surfaces of both being coinciding surfaces of revolution. It will be further noted that the stock 3 is readily detached from the frame 1, following the removal of screw 17 by a pull on said stock in the direction of the opening 18 to permit another stock having the same shaped slot 7 therein to be substituted in its place. The cooperating arcuate surfaces 5 and 15 of the frame and stock, respectively, provide

a rigid support for said frame within the stock and the opposite sides of the frame are covered and concealed by the sides of the stock which extend forwardly to form a substantially continuous surface over the sides and rear surface of the frame, the forward surface of the frame coinciding with the forward edges of the stock to form a continuous gripping surface.

I claim:—

1. In a revolver construction, a frame having a stock engaging portion providing flat parallel sides and a rearward surface formed as a surface of revolution and extending throughout the length of the stock engaging portion, and a stock having a recess extending inwardly from the forward surface thereof, said recess providing flat parallel sides and a bottom surface formed as a surface of revolution extending throughout the length of said recess and corresponding in curvature to the rearward surface of the frame, the stock engaging portion of the frame being arranged to enter the recess of said stock with the rearward surface of the frame and the bottom surface of the recess in the stock coinciding, and means to hold said stock on said frame.

2. In a revolver construction, a frame having a stock engaging portion providing flat parallel sides and a rearward surface formed as a surface of revolution about an axis perpendicular to said sides and extending throughout the length of the stock engaging portion, and a stock having a recess extending inwardly from the forward surface thereof, said recess providing flat parallel sides and a bottom surface formed as a surface of revolution about an axis perpendicular to the sides of said recess, said bottom surface extending throughout the length of said recess and corresponding in curvature to the rearward surface of the frame, the stock engaging portion of the frame being arranged to enter the recess of said stock with the rearward surface of the frame and the bottom surface of the recess in the stock coinciding, and means to hold said stock on said frame.

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