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ADJUSTABLE GUN BUTT

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3 Claims. (Cl. 42—73)

This invention relates to gun butts.

The principal object of this invention is to provide a gun butt which may be adjusted horizontally in relation to the gun stock; that is, when the gun is in a pointed position for shooting, the butt may be adjusted to the right or left of the gun stock.

A further object is to provide an adjustable gun butt with variable cushion means.

A further object is to provide a gun butt which may be adjusted vertically in relation to the gun stock; that is, when the gun is in a pointed position for shooting, the butt may be adjusted up or down in relation to the gun stock.

A further object is to provide an adjustable gun butt that may be quickly brought into position and one which will easily maintain its position against the shoulder when under pressure.

A further object is to provide a gun butt with a straight shoulder butt having its upper portion chamfered so as to allow for rapid positioning of the butt in shooting.

A further object is to provide an adjustable recoil pad provided with a curved shoulder butt interchangeable with a straight shoulder butt.

A still further object is to provide a gun butt having its shoulder contact surface provided with a smooth outer and center area and a gnarled area on each side thus allowing the pad to be moved quickly to the shoulder and providing a friction means when slightly pressed against the shoulder so that the gnarled area contacts the shoulder. This gun butt is particularly designed for skeet and field shooting where it is necessary to move the gun quickly into position for shooting.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 2 is an end view of the complete gun butt showing parts in cross section.

Figure 3 is a view of the opposite end of the gun butt from that shown in Figure 2.

Figure 4 is a perspective detail view, with parts broken away, showing the cam adjustment means for moving the gun butt horizontally in relation to the gun stock.

Figure 5 is a perspective view of a part of Figure 4 showing the cam.

Figure 6 is a vertical view of the assembled device adjusted to the left in relation to the gun stock.

Figure 7 shows a modification of the gun butt in cross section, showing the curved shoulder butt moulded of relatively soft rubber and having a reinforcing steel insert.

In fast shooting it becomes necessary to raise and lower the gun many times and it is desirable that the gun butt rest in the correct position against the shoulder each time. In my invention I provide an adjustable gun butt so that any individual may readily adjust the gun butt to meet his particular requirements. In my Patent No. 1,847,777 I provide an adjustable recoil gun pad which allows for vertical adjustment of the gun butt. My new invention is an improvement over this patent in that in addition to the positive vertical adjustment I now incorporate a horizontal adjustment.

By referring to the drawing it will be seen that there is provided a plate member 1 which is secured to a gun stock by means of screws 2. This plate member 1 is provided with a central slot 3. Functioning in this slot 3 is an adjustable bolt 4 with a head 5 slidably maintained in a recess 6 of the plate member 1. This plate member 1 is provided with a notched surface 8 which functions with a notched surface 8 on a plate 9, in order to provide for vertical adjustment in relation to the gun stock. The plate member 1 and the plate 9 are preferably made of metal of suitable strength and lightness. It will also be seen by referring to Figure 4 that the plate 9 is provided with a recessed area 10 formed on a surface opposite to that of the notched surface 8 of the plate 9. It will also be seen that the plate 9 is provided with threaded lugs 11. These threaded lugs 11 pass through an elastic cushion member 12 and into a shoulder portion 13 of the device. It will be seen that there is provided a centrally located opening 14 in the recessed area 10 of the plate 9. Positioned in this centrally located opening 14 is a rotatable cam 15. This cam 15 is held on the bolt 4 by means of a nut 16. The purpose of this rotatable cam 15 is to provide a horizontal adjustment of the plate 9 in reference to the plate 1. The cam 15 is rotated by means of protruding edges 17. In order to manipulate the cam 15, the nut 16 on the bolt 4 must be loosened. By the rotation of the cam
the plate 9 may now be moved to the right or left of the plate 4. In doing this the notched surface 8 of the plate 9 slides horizontally in the notches of the plate 4. When the desired adjustment is made the nut 16 is tightened. Thus it will be seen that my invention provides a novel method of horizontal adjustment in relation to the gun stock as well as the vertical adjustment already provided.

It will be seen that in designing the shoulder portion 13, I have provided a chamfered portion at the upper end 23, and a smooth area around the outside edges and the center surface. Between these smooth surfaces are gnarled areas 18 holding the same in position when the slightest pressure is applied. This shoulder portion 13 is attached to the plate 9 by means of nuts 19 positioned on the ends of the lugs 11, thus holding in place the elastic cushion 12 which is positioned between the shoulder portion 13 and the plate 12.

By referring to Figure 7 it will be seen that there is a modification of the shoulder portion 13 in that there is provided a curved shoulder portion 24 which is interchangeable with the shoulder portion 13. This shoulder portion 24 is provided with a recess 25 for the reception of a highly resilient sponge rubber pad 21 which fits into a recess 22 formed in the shoulder portion 13.

The shoulder portion 13 is preferably moulded of soft rubber with a reinforcing steel insert 20. The purpose of this reinforcing steel insert 20 is to provide a rigid base for the shoulder portion 13 and to distribute the recoil over the complete area of the pad. The reinforcing steel insert 20 is provided with a centrally located rectangular opening which allows for the insertion of a highly resilient sponge rubber pad 21 which fits into a recess 22 formed in the shoulder portion 13.

It is evident that both of the shoulder portions, being set on sponge rubber, permits the shoulder portion to assume the contour of the shooter's physical build.

What I claim is:

1. In an adjustable gun butt, a pair of plate members, the abutting sides of which are provided with notched surfaces, a bolt and nut holding together said plate members, a slot in one plate member adapted to receive and slidably retain the head of said bolt, a centrally located opening positioned in a recessed portion of the other plate member, a rotatable cam partially positioned within said centrally located opening and held by said bolt and nut for adjusting the recessed plate member to the right or left of the other plate member, and a shoulder portion moulded of soft rubber, a reinforcing steel insert in said moulded shoulder portion, a partially smooth surface on said shoulder portion, gnarled areas in said shoulder portion for the purpose of forming friction areas when under slight pressure, an elastic cushion held in place between said shoulder portion and said plate member, lugs extending through said shoulder portion and said elastic cushion into said plate, nuts for said lugs.

2. In an adjustable gun butt, a pair of plate members, the abutting sides of which are provided with notched surfaces, a bolt and nut holding together said plate members, a slot in one plate member adapted to receive and slidably retain the head of said bolt, a centrally located opening positioned in a recessed portion of the other plate member, a rotatable cam partially positioned within said centrally located opening and held by said bolt and nut for adjusting the recessed plate member to the right or left of the other plate member, a shoulder portion moulded of soft rubber attached to the second metal plate, a reinforcing steel insert in said moulded shoulder portion, a rectangular opening in said steel insert and a recess in said shoulder portion, a highly resilient sponge rubber pad fitting into said recess, a cushion member positioned between said secondary plate and said shoulder portion, a chamfered portion at the upper end of said shoulder portion and a smooth area around the outside edges and the center surface, and gnarled areas between these smooth surfaces for allowing for rapid positioning of the gun and holding the same in position when under slight pressure.

3. In a gun butt, a shoulder portion on said gun butt moulded of rubber, a steel insert in said moulded shoulder portion, a pair of plate members, the abutting sides of which are provided with notched surfaces, a bolt and nut holding together said plate members, a slot in one plate member adapted to receive and slidably retain the head of said bolt, a centrally located opening positioned in a recessed portion of the other plate member, a rotatable cam partially positioned within said centrally located opening and held by said bolt and nut for adjusting the recessed plate member to the right or left of the other plate member.