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ADJUSTABLE LENGTH BUTTSTOCK

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The present invention relates to firearms, and more specifically to an adjustable length buttstock for rifles and the like.

It is a principal object of this invention to provide an improved buttstock for a firearm which may be adjusted in length to facilitate storage and transportation thereof.

It is a further object of this invention to provide a firearm whose length may be easily adjusted for more comfortable use by individuals of various sizes.

It is an additional object to provide an improved buttstock of the type described that is easily and economically manufactured while being easy to use and durable in operation.

Other objects will be in part obvious and in part pointed out more in detail hereinafter.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the construction hereafter set forth and the scope of the application which will be indicated in the appended claims.

In the drawings:

FIG. 1 is a side elevation, partly in section, of an adjustable length buttstock constructed in accordance with the teachings of the present invention;

FIG. 2 is a side elevation of the slotted tube employed in the buttstock shown in FIG. 1; and

FIG. 3 is an end view of the buttstock shown in FIG. 1.

As seen in FIG. 1, the adjustable buttstock 10 includes a stock portion 12 having a bore 14 passing longitudinally therethrough. Rotatably mounted within the bore 14 is a slotted tube 16 having a lever 18 suitably secured on one end thereof to facilitate rotation. The lever 18 may be pivotable within a recess 20 which is cut in the end of the stock portion 12.

The tube 16 is slidably mounted on a rod 22 which has a pin 24 projecting radially therefrom. The end 26 of the rod 22 may be suitably attached to the rifle (not shown).

The pin 24 extends through a slot 28 in the tube 16 to permit limited longitudinal sliding movement between the rod 26 and the tube. As shown in FIG. 2, a notch 30 may be cut in the peripheral wall of the slot 28 to permit the tube 16 to be locked against sliding movement relative to the rod 26 when the buttstock is in the extended position. Thus, when the buttstock is in the fully extended position (that is, when the pin 24 butts against the end 32 of the slot 28), and the tube 16 is rotated in a clockwise direction (see FIG. 3) the tube 16 and stock portion 12 will be locked against sliding movement relative to the rod 26 and rifle (not shown). A notch 34 may also be cut in the peripheral wall of the slot 28 adjacent its other end 42 for locking the tube 16 and rod 26 against relative sliding movement when the buttstock is in the retracted or storage position.

Obviously, additional notches may be provided between the notches 30 and 34 to permit the tube 16 and rod 26 to be locked against relative sliding movement when the buttstock is between the extended and retracted positions. This feature would permit the length of the rifle to be varied so that individuals of different sizes could comfortably use it.

As shown in FIG. 1, the bore 14 has an enlarged diameter portion 36 intermediate the ends thereof to receive the pin 24 which extends radially through the slot 28.

The pin 24 may be secured on the rod 22 in any suitable manner. In the embodiment shown in FIG. 1, the pin seats in a radially extending bore in the rod. A longitudinally extending threaded bore 44 which communicates with the radially extending bore, and a threaded stub shaft 38 may be employed to secure the pin 24 in position.

The lever 18 may be connected to the tube 16 by means of a plug 44. A screw 46 may connect the lever to the plug, while a stud 48 may be employed to connect the plug to the tube. As can readily be seen, the buttstock may be quickly and easily disassembled. This may be accomplished by first removing the screw 46 to detach the lever 18 from the plug 44, and then removing the stock portion 12 from the tube 16. Next, the plug 44 may be disconnected from the end of the tube 16 by removing the stud 48. The stub shaft 38 may then be unscrewed and the pin 24 removed to permit the tube 16 to be slid off of the rod 22. The fact that the buttstock may be quickly disassembled is particularly important to military personnel who must often disassemble their firearms for cleaning and inspection purposes.

To place the buttstock and rifle in the retracted or storage position, the lever 18 is rotated counterclockwise to the open position "O" (see FIG. 3). This will rotate the tube 16 to permit relative sliding movement between the tube and the rod 26. The stock portion 12 and the tube 16 are then slid forwardly on the rod 26 until the pin 24 riding in the slot 28 butts the end 42 of the slot. The lever 18 is then moved to the locked position L which rotates the tube 16 so that the pin 24 moves into the notch 34 to lock the tube 16 and rod 26 against relative sliding movement. Obviously, the procedure is reversed to lock the buttstock in the extended position.

While the drawings illustrate use of a single adjustable tube to achieve the desired variation in the length of the rifle, the phantom lines 50 illustrate a guide rod suitably attached to the rifle and the phantom lines 51 illustrate a cooperating passageway in the buttstock which can be used to preclude stock rotation.

As will be apparent to persons skilled in the art, various modifications and adaptations of the structure above described will become readily apparent without departure from the spirit and scope of the invention, the scope of which is defined in the appended claims.

I claim:

1. An adjustable length buttstock assembly comprising: a stock having a bore extending therethrough; a tube mounted within said bore; a rod member having one end slidably extending into said tube; and guide means between said tube and said rod member precluding rotation of said stock relative to said rod, while permitting limited relative sliding movement between said tube and said rod member; whereby, when said rod is secured to a firearm, the length of the firearm may be varied by sliding said tube and said stock along said rod member.

2. An adjustable length buttstock assembly according to claim 1, and further including means for selectively locking said tube and said rod member against relative sliding movement.

3. An adjustable length buttstock assembly comprising: a stock portion having a bore extending therethrough; a tube mounted within said bore; a rod member having one end slidably extending into said tube; and means between said tube and said rod member for permitting limited relative sliding movement between said tube and said rod member, said last named means including a longitudinally extending slot cut in said tube and a radially projecting pin member mounted on said rod member and extending through said slot; whereby when said rod is secured to a firearm, the length of the firearm may be varied by slid-

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ing said tube and said stock portion along said rod member.

4. An adjustable length buttstock assembly comprising: a stock portion having a bore extending therethrough; a tube rotatably mounted within said bore; a rod member having one end slidably extending into said tube; a longitudinally extending slot cut in said tube, and a radially projecting pin member mounted on said rod member and extending through said slot, and at least one notch cut in the peripheral wall of said slot in said tube for engagement with said pin member upon rotation of said tube, thereby to lock said tube and rod member against relative sliding movement; whereby, when said rod is secured to a firearm, the length of the firearm may be varied.

5. An adjustable length buttstock assembly according to claim 4 further including: a lever, and means securing said lever on one end of said tube to facilitate rotation thereof.

6. An adjustable length buttstock assembly according to claim 4, wherein said rod member has a radially extending hole cut therein for seating said pin member; said assembly further including means for securing said pin member in said radially extending hole.

7. An adjustable length buttstock assembly according to claim 6, wherein said means for securing said pin mem-

ber in said radially extending hole comprises means defining an internally threaded axially extending hole communicating with said radially extending hole, and a threaded stub shaft screwed into said internally threaded axially extending hole.

8. An adjustable length buttstock assembly comprising: a stock portion having a bore; a tube mounted within said bore; a rod member having one end slidably extending into said tube; and pin and slot means between said tube and said rod member for permitting limited relative sliding movement between said tube and said rod member; whereby, when said rod is secured to a firearm, the length of the firearm may be selectively varied by sliding said tube and said stock portion along said rod member.

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