H. HARTLEY.

ADJUSTABLE GUN-STOCK.

No. 190,033. Patented April 24, 1877.

Fig 1.

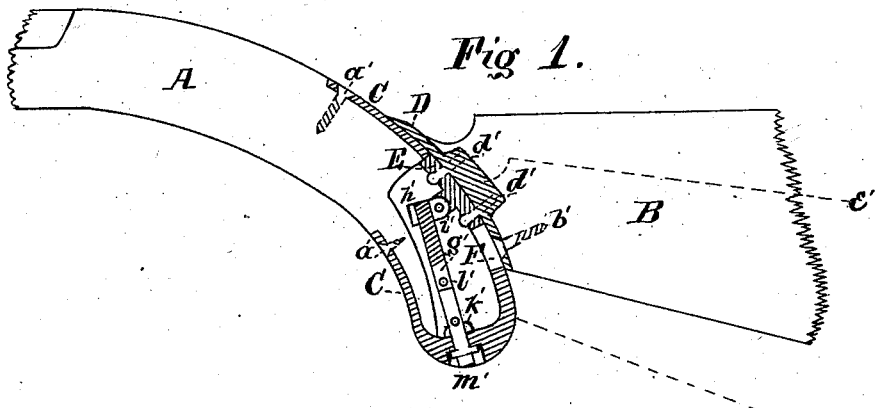
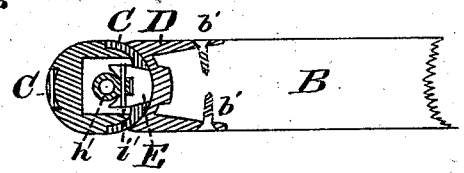


Fig 2.



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UNITED STATES PATENT OFFICE.

HOWARD HARTLEY, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN ADJUSTABLE GUN-STOCKS.

Specification forming part of Letters Patent No. **190,033**, dated April 24, 1877; application filed February 1, 1877.

To all whom it may concern:

Be it known that I, HOWARD HARTLEY, of the city of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Gun-Stocks, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

My invention relates to adjustable gun-stocks; and it consists in the construction of parts, as hereinafter more fully set forth.

The advantages of forming a gun-stock adjustable are, that the party using the gun may, from physical causes, find it very inconvenient to bring his eye to the line of the barrel in aiming, if long necked, having to bring his head forward, downward, and on an incline sidewise, thus disturbing his natural line of vision and rendering his aim uncertain. This is frequently the case with the guns now in use, the stocks of which are of a nearly standard shape and form. My stock is so made as to readily adjust the line of the barrel to the natural level of the eye of any one using the gun, requiring no side or downward movement of the head. The position of aiming is one of perfect ease, and the results of the firing sure to be more satisfactory.

In Figure 1 of drawings, I show a longitudinal section of a pistol-butt gun-stock, and in Fig. 2 a cross-section of the same, constructed so as to accomplish thee object of my invention.

The stock is formed of two pieces. A is the forward part carrying the barrel. B is the breech part, to rest upon the shoulder. They are united by mechanical parts, which, while they admit of movement, can be firmly fixed at any point desired.

Like letters in both views refer to like parts.

C C is a metallic casing, firmly attached to the forward part A by the screws a' a', or equivalents. The rear part of C is in the form of a segment or an arc of a true circle. The sides are curved, also, to true circles. (See Fig. 2.) This surface is finished perfect, and on it the sliding piece D, fitted to match it perfectly, moves. D is secured to the breech B by the screws b' b b'. There is a dovetailed slot, F, in the rear of C, in which is closely fitted the dovetailed slide E. When the connections are all made this slide is firmly fastened to D by the set-screws d' d', and the combination of convave, convex, and flat surfaces thus produced, while admitting of movement up or down on the line of the slot, will not allow any vibration or twisting.

The slot F is so much longer than the slide E as to admit of a considerable movement of B. This is shown by the dotted lines e' e'. The motive-power for this movement is obtained from the screw g', or its equivalent, operating in the nut h', which is secured by a the pivot i to E. At l' on the screw g' there is a shouldered pivoted joint for convenience in attaching or detaching parts of the mechanism. At k' there is a collar secured by a pin to compel the screw to perform its work in one direction, while the outside collar at m' compels it to do so in the other. m' is made to suit the ordinary form of a gun-socket wrench, which, when applied and turned causes the screw g' to traverse the nut h', which, communicating motion to the slide E, causes B to rise or fall, as desired, thus enabling the gunner to adjust the gun to suit his eye and shoulder until he is satisfied.

Having thus described my invention I claim—

In combination with a pistol gun-stock, the metallic casing C C, provided with the dovetailed slot F, the covering-piece D, the key-slide E, secured by the screws d' d', and pivoted nut h', and screw g', or their equivalents, substantially as and for the purpose hereinbefore set forth.

HOWARD HARTLEY.

Witnesses:
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