

No. 856,507.

PATENTED JUNE 11, 1907.

W. S. ALVES.
GUN STOCK.

APPLICATION FILED OCT. 13, 1906.

FIG. 1

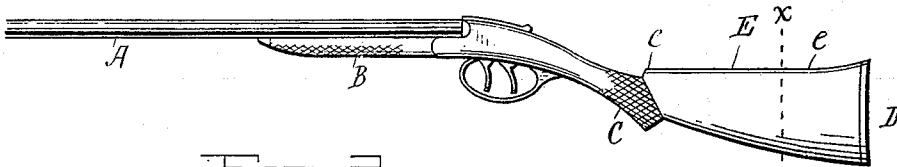


FIG. 2

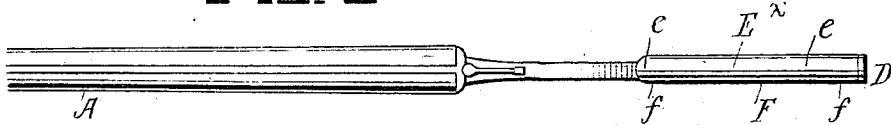


FIG. 3



FIG. 4

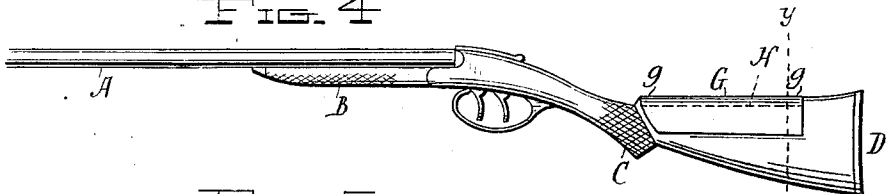
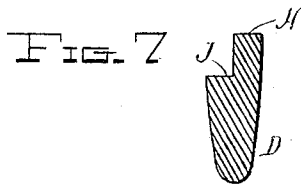
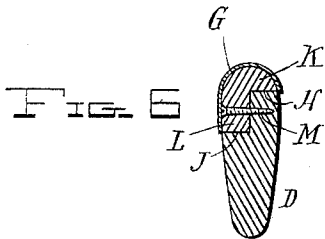
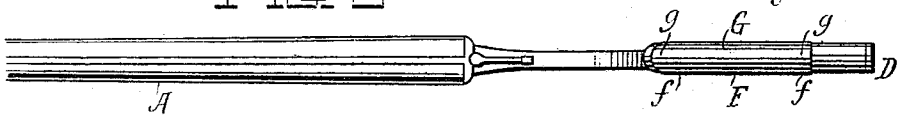


FIG. 5



Witnesses

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UNITED STATES PATENT OFFICE.

WALTER S. ALVES, OF HENDERSON, KENTUCKY.

GUN-STOCK.

No. 856,507.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WALTER S. ALVES, a citizen of the United States, residing at Henderson, in the county of Henderson and State of Kentucky, have invented certain new and useful Improvements in Gun-Stocks, of which the following is a specification.

My invention relates to gunstocks.

The object of my invention is the production of gunstocks having particular construction whereby it is believed the users are enabled to more accurately, more quickly, and more conveniently aim the pieces, than it is practicable for them to do when using gunstocks having the forms and construction with which I am acquainted.

I accomplish the object stated by fashioning a gunstock as illustrated in the accompanying drawings, of which

Figure 1 represents a side view of a solid butt with a portion of the breech end of the barrels. Fig. 2 is a top plan of the parts shown in Fig. 1, and Fig. 3 is a cross section of those parts on line $x-x$ of Fig. 1. Fig. 4 represents a side view of a gunstock constructed in accordance with my invention and provided with a cheek cushion. Fig. 5 is a top plan of the construction shown in Fig. 4. Fig. 6 represents a cross section of that construction on line $y-y$ of Fig. 4, and Fig. 7 is a like cross section of the butt with the cushion and its block omitted.

Like letters of reference are employed to designate the same parts in the description and drawings.

The letter A designates the barrel or barrels of a gun, letter B refers to the fore end, and C is the usual pistol grip of the stock. The butt of the stock is marked D. The upper edge or comb of the stock is marked E, and for purposes of explanation hereinafter, two points upon the comb E are indicated by small letters e, e .

It will be noted in Figs. 1 and 4 that toward the upper point of the shoulder-piece or "heel" d of the butt, the comb line E rises. The reason for this construction is that the cheek rest surface is somewhat below the heel. In other words, considering, for example, Fig. 1, the shoulder-piece is shown of ordinary length and position, its upper end at the "heel" of the butt being relatively higher than the comb line E or cheek-rest surface. If in the construction of my invention, the comb line E were continued straight out, the shoulder piece would be shortened.

In some instances, the area of the shoulder-piece would be much reduced and the recoil of the gun would cause real inconvenience. I do not reduce the regular size or extent of the shoulder-piece in any way.

Slightly below the comb edge is the cheek rest F, and the line of the cheek rest is shown in the plan views Figs. 2 and 5. A portion of that line or curved surface of the cheek rest is to be mentioned in this explanation and such portion is delimited by two points thereon indicated by the small letters f, f .

In Fig. 3 and also in Fig. 6, both being cross-sections of my invention, it is shown that the upper portion of the butt D is thicker than the lower part. By reason of that construction the line $f-f$ and the adjacent surface designated herein as the cheek rest, that is to say, the surface in contact with the cheek under normal aiming conditions, projects beyond the lower extent of the surface of the side of the butt toward the face of the gunner. The prominence thus given the cheek rest surface materially assists the person in bringing his head to rest against the portion and surface of the butt designed for the purpose, and enables proper and accurate aim to be almost instantly taken.

In Fig. 4 my invention is shown provided with a cheek cushion G, the comb edge, and the terminal points of the portion or extent of that edge referred to in this description are designated by the letters g, g , corresponding to the marked points e, e , in Fig. 1. In Fig. 5, the curved surface or line of the cushion on which the cheek rests is identical in form and position with the corresponding surface of the solid stock illustrated in Fig. 2, and the same reference letters are employed to indicate the terminal points.

Fig. 6 represents a cross section of the butt of the stock, with the cushion applied. The top edge of the butt is recessed as shown in Fig. 7, and indicated by broken lines in Fig. 4, and the bottom of the recess is marked H. The side of the stock is also provided with a recess J. Into the recess in the top edge or comb of the stock there is placed the lip or overhang K of the cushion block which carries the cushion G, and the body L of the cushion block fits the recess J in the side of the stock. The cushion block is secured in place by screws M, and is thus removable, if desired.

Whether the butt of the gun be solid

throughout, or provided with the cushion as described, it will be noted that the greatest "drop" of the gunstock is at the cheek rest. Further, it will be observed in Figs. 1 and 4, that the comb line, or at least the major portion of it comprehended between the points *e, e*, and *g, g*, is exactly parallel to the sight line of the gun. Again, it will be seen by inspection of the plan views Figs. 2 and 5, that the cheek rest, or that portion included between the points *f, f*, is also parallel to the sight line of the gun and, consequently, parallel to the edge *E*. In other words, the upper part of the stock possesses throughout its length the cross-section shown in the upper portion of Fig. 3, with the result that a straight line drawn upon the top of the butt between any two points such as the points marked *e, e*, will be parallel with a straight line drawn lower on the side of the stock between points such as *f* and *f*. Constructed in accordance with my invention, the top line *e, e*, of the stock and the line of sight of the gun are parallel and lie in the same vertical plane. The lower line *f, f*, is parallel to both the other lines and is in a vertical plane parallel to the plane of the other lines.

It is my practice in the manufacture of my invention to make it to order. That is to say, to construct the butt of the gunstock in accordance with my invention, yet in so far as the dimensions are concerned, the physical peculiarities, size, etc., of the intending user are to be carefully regarded and followed. That being done, when the gun is aimed, the instant the cheek of the person comes into its normal position against the cheek rest, the permanent line of sight of the gun passes directly through his eye. He does not have to make any effort to adjust the gun or to find the sights, as they are brought without effort exactly in line with his visual axis. All that is necessary is to locate the object to be shot at, which is almost as quickly done, and as soon as the object is located by the aiming eye, it is necessarily directly in the continued line of sight

and the gun may be immediately discharged. Furthermore this is true even if the cheek of the user does not fall each time upon the same points of the line extending between the points *e, e* of the solid stock, or *g, g*, of the cushioned stock, because those lines are parallel throughout with the comb line and the permanent line of sight of the gun.

The form of my invention shown in Figs. 4, 5 and 6, does not differ in any way from that shown in Figs. 1 and 2 save in the introduction of a cushion. In all respects the edge *G* takes the place of the edge *E*, the points *g, g*, correspond with the points *e, e*, and the points *f, f*, are the same as before.

Having now described my invention, and explained the mode of its operation, what I claim is—

1. A gunstock having a butt comprising a comb constructed with a straight portion arranged parallel to the line of sight of the gun and below the heel of the butt, the said comb rising rearwardly from the said straight portion to the said heel, and the said butt having a cheek rest adjacent to and below the comb, the said cheek rest being constructed substantially the same length as the said straight portion of the comb and parallel thereto and to the line of sight, as described.

2. A gunstock having a butt comprising a comb provided with a cushion constructed with a straight portion arranged parallel to the line of sight of the gun and below the heel of the butt, the said comb rising rearwardly from the said straight portion of the said cushion to the said heel, and the said butt having a cheek rest adjacent to and below the comb, the said cheek rest being constructed substantially the same length as the said straight portion of the comb and parallel thereto and to the line of sight, as described.

In testimony whereof I affix my signature in presence of two witnesses.

WALTER S. ALVES.

Witnesses:

S. O. MARSHALL,
MIKE P. ABEL.