

(No Model.)

W. FLEMING.
TRIGGER FOR DOUBLE BARRELED GUNS.

No. 521,021.

Patented June 5, 1894.

Fig. 1.

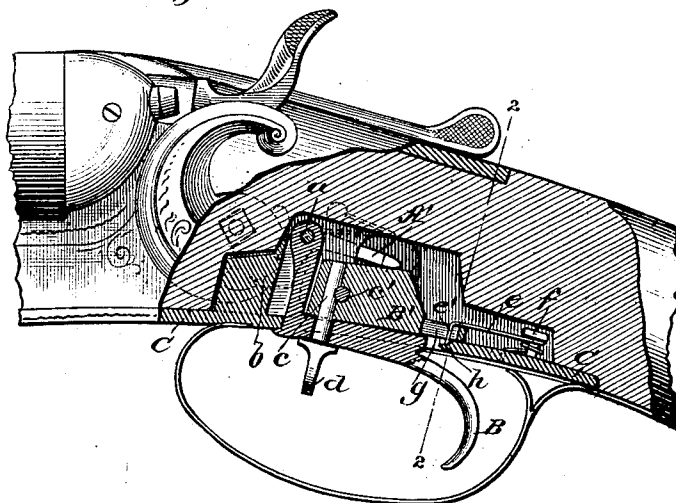


Fig. 2.

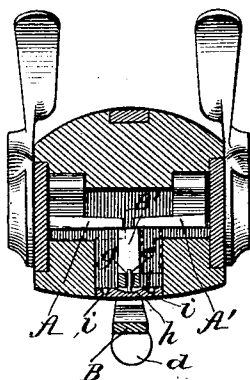
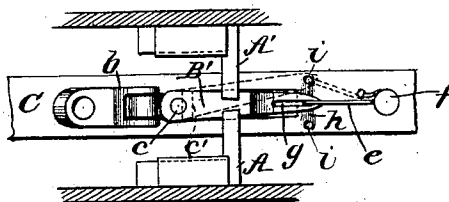


Fig. 3.



WITNESSES:

Fred G. Dieterich
Edw. W. Ryan.

INVENTOR

William Fleming
BY *Munn & Co*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM FLEMING, OF NEWBERRY, PENNSYLVANIA.

TRIGGER FOR DOUBLE-BARRELED GUNS.

SPECIFICATION forming part of Letters Patent No. 521,021, dated June 5, 1894.

Application filed September 6, 1893. Serial No. 484,882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM FLEMING, of Newberry, in the county of Lycoming and State of Pennsylvania, have invented a new and useful Improvement in Triggers for Double-Barreled Guns, of which the following is a specification.

The object of my invention is to dispense with the necessity of having more than one trigger for double barreled guns, and to have this one trigger so constructed and adjusted as to enable it to serve the purpose of two, permitting either barrel of the gun to be fired independently, or both together, or either one in sequence after the other; and to this end it consists in the peculiar construction of the trigger and its arrangement in relation to the two sears that release the tumblers of the hammers, which I will now proceed to more fully describe with reference to the drawings, in which—

Figure 1 is a side view of a portion of a gun stock partly broken away in longitudinal section. Fig. 2 is a transverse section taken through line 2—2 of Fig. 1. Fig. 3 is a plan view of the inside face of the trigger-plate and trigger, shown in relation to the two sears which operate upon the tumblers of their respective hammers.

In the drawings A A' are the right angular inwardly projecting arms of the two sears which, for the most parts, are of the ordinary construction. These sear arms project inwardly toward each other, and ordinarily lie just above the shoulders of their respective triggers, so that one trigger will act upon one of the sear arms, and the other trigger upon the other sear arm, giving a wholly disconnected and independent trigger action for each hammer.

In my invention I use but a single trigger B which has the usual hook shaped finger hold below, while its body portion is pivoted at its upper end at *a* to the fulcrum lug *b* of the metal trigger plate C which is screwed as usual to the lower side of the grip of the gun in middle longitudinal position. The shoulder B' of the trigger I construct as a laterally movable block adapted to be adjusted into range of engagement of either sear arm to the exclusion of the other, and thick enough to engage the ends of both sear arms at once

when the trigger shoulder is in its normal or middle position. For the lateral adjustment of the trigger shoulder it has a vertical pin *c* at its front end which is rigidly keyed or fixed to the shoulder, and extending loosely through the horizontal portion of the trigger, terminates in a flat thumb piece *d*. This pin *c* swivels or turns loosely in the trigger, and by turning the thumb piece *d* in one direction or the other the shoulder of the trigger, which is rigidly attached, may be swung laterally to a position on either side of the middle line, so as to come within range of exclusive engagement with one or the other sear arm. For rigidly connecting the pin *c* to the trigger shoulder, a simple and practical method is to drill vertically through the shoulder, insert the pin *c*, and then drill horizontally through the shoulder a hole that pierces the side of the pin *c*, and then insert a locking pin *c'* which acts as a key, and is then riveted to hold it in place.

After the trigger shoulder is raised by the trigger against the sear arm to fire the gun, said shoulder and trigger are thrown down again by a spring *e*. This spring is coiled around a headed stud *f* projecting upwardly from the trigger plate, the other end of the spring being held fast in the trigger plate. This spring also serves the additional function of locking the trigger shoulder to either of its lateral adjustments, and also restoring it to its normal or middle position. For this purpose the end *e'* of the spring that connects with the shoulder is bent downward at right angles and is passed through a slot *g* in an extension from the shoulder, and the lower end of this bent down portion protrudes below the shoulder into a central or middle recess *h* in the trigger plate. This recess has inclined sides, and in the inner face of the plate outside the middle recess there is on each side a locking cavity *i* adapted to receive the end of the spring *e*. Now when the trigger shoulder is adjusted by the thumb piece to one side or the other of its middle position, the end *e'* of the spring *e* rides up the incline of the central recess and then drops into one of the locking cavities *i*, which thus holds the trigger shoulder over to its inclined position until the trigger is pulled. When the trigger is pulled, the shoulder is

lifted up, and made to act upon the sear arm, and immediately also the end *e'* of the spring is lifted out of its locking cavity *i*, and the lateral tension of the spring swings back the trigger shoulder to its normal middle position.

From the above description it will be seen that when the trigger shoulder is in its normal or middle position, its thickness is sufficient to cause it to act upon either sear arm, or both at once, without adjusting the shoulder. If, however, both hammers are cocked, and it is not desired to fire both simultaneously, but one after the other, the trigger shoulder is adjusted to one side by the thumb piece. The first pull on the trigger acts then exclusively on one sear arm, and as the trigger shoulder in this action, goes back to the middle position (where it can act on both sear arms) the next pull in immediate succession causes the other hammer to descend. Either of the two barrels may thus be fired first according to which side the trigger shoulder is adjusted.

My invention accomplishes, in a simple, cheap, and practical way, the same results that are attained ordinarily with two triggers, but in dispensing with one trigger gives much more finger room in the trigger guard.

The invention is equally well applicable to guns having concealed hammers (hammerless guns) and to double barreled rifles, or a combined shot gun and rifle, where it is desirable to have space enough in the trigger guard to use an extra hair or set-trigger.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a double barreled fire arm, the combination with the two sears, of a single trigger having a shoulder adjustable into operative relation with either or both sears substantially as shown and described.

2. In a double barreled fire arm, the combination with the two sears, of a single trigger having an adjustable shoulder made thick enough to operate upon both sears at once,

and means for adjusting it into operative position with one sear to the exclusion of the other, substantially as shown and described.

3. In a double barreled fire arm, the combination with the two sears, of a single trigger, an adjustable shoulder carried by said trigger, means for adjusting it laterally, a spring for throwing it to its middle position, and locking devices for holding it to either side of its middle position substantially as and for the purpose described.

4. The combination of the trigger plate having a central recess *h* with inclined sides, and locking recesses *i* on both sides of the same, the trigger having a laterally adjustable shoulder with slotted extension, and the spring *e* with end *e'* extending through the slotted extension to engage with the recess and cavities below, and operating with the three fold function of depressing the trigger, restoring the trigger shoulder to its normal position, and locking it to one side of its normal position, substantially as shown and described.

5. The combination with the trigger, of a pivotal trigger shoulder having a pin rigidly attached thereto and extending through the trigger and terminating in a thumb piece substantially as and for the purpose described.

6. The combination with the trigger, of a pivotal trigger shoulder having a rigid pin *c* extending vertically through the same and turning loosely in the trigger and terminating in an external thumb piece, and a transverse locking pin *c'* passing transversely through the trigger shoulder and intersecting and locking the pin *c* substantially as and for the purpose described.

The above specification of my invention signed by me in the presence of two subscribing witnesses.

WILLIAM FLEMING.

Witnesses:

EDW. W. BYRN,
JAMES H. GRIDLEY.