March 10, 1936. T. L. ANDERSON 2,033,803

TRIGGER RELEASE

Filed Nov. 30, 1932 2 Sheets-Sheet 1

Fig. 1.

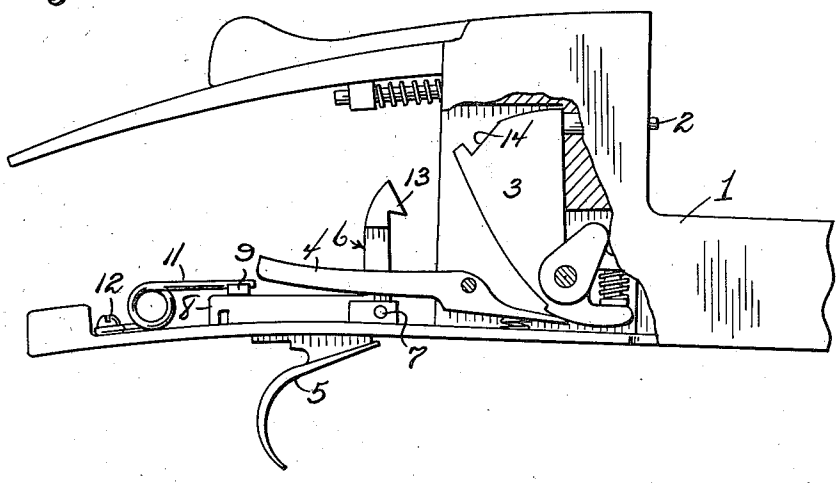


Fig. 2.

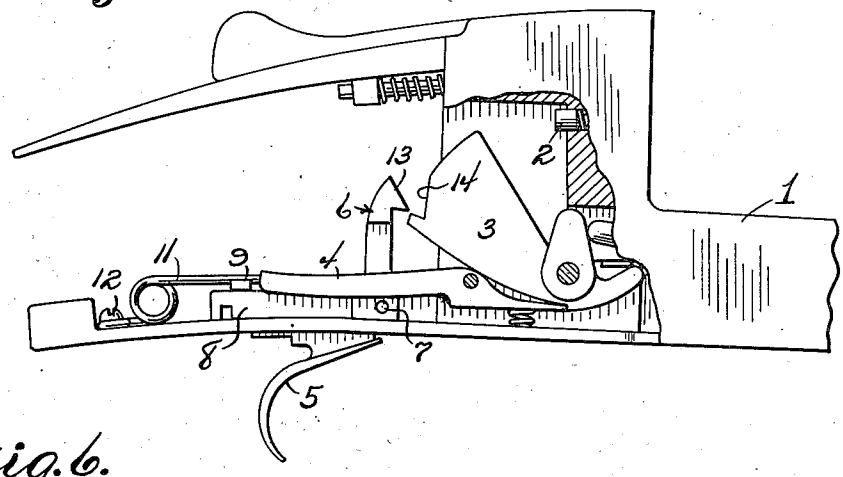
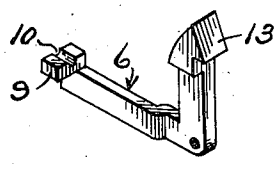


Fig. 6.



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Filed Nov. 30, 1932 2 Sheets-Sheet 2

Fig. 3.

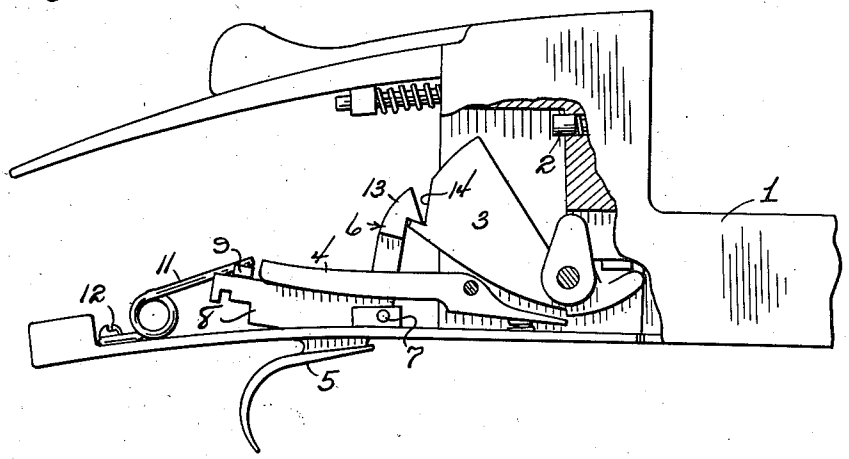


Fig. 4.

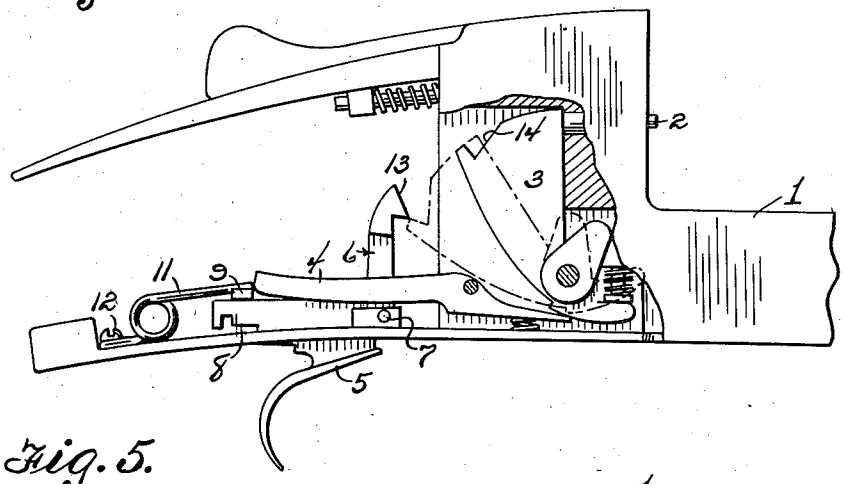
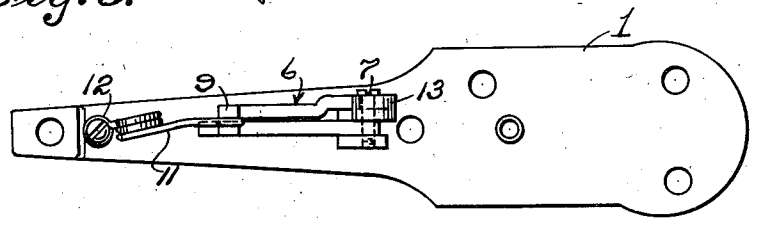


Fig. 5.



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Patented Mar. 10, 1936 2,033,803

UNITED STATES PATENT OFFICE

2,033,803

TRIGGER RELEASE

Thomas L. Anderson, Hannibal, Mo.

Application November 30, 1932, Serial No. 645,068

1 Claim. (Cl. 42—69)

This invention relates to a trigger release and more particularly to an attachment applicable to a shotgun or other firearm wherein it is desired to convert or reverse the trigger action for increasing the accuracy of a person's shot, and has for the primary object the provision of means for preventing the flinching of a person affecting the aim of a gun when fired, thus permitting more accuracy to be had by a person when shooting at moving or non-moving targets or objects.

Another object of this invention is the provision of a device of the above stated character which may be easily and quickly applied to or removed from a conventional type of gun, and which, when applied, will reverse the trigger action so that the gun fires on the release of the trigger instead of on the pulling of the trigger. Thus the muscular contraction of a person pulling the trigger will not affect the aim of the gun during the actual firing of said gun, the firing of the gun taking place during the relaxing of the muscular action of the person.

With these and other objects in view this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which

Figure 1 is a fragmentary vertical sectional view illustrating a portion of a gun wherein the hammer is shown in firing position and with an attachment applied to the gun constructed in accordance with my invention.

Figure 2 is a similar view showing the hammer in cocked position and being held in said position by the sear of the gun.

Figure 3 is a similar view showing the hammer held in a cocked position after the pulling of the trigger by an auxiliary sear or an attachment forming the subject matter of the present invention.

Figure 4 is a similar view showing the hammer released from a cocked position by the trigger of the gun being released.

Figure 5 is a fragmentary plan view showing the attachment applied to the gun frame and the conventional sear carried by said frame.

Figure 6 is a perspective view illustrating an auxiliary sear forming part of the present invention.

Referring in detail to the drawings, the numeral 1 indicates a portion of a gun frame in which is mounted the firing pin 2 actuated by a hammer 3. The hammer 3 is of the conventional type and held in a cocked position by a sear 4, the latter being actuated by the movement of a trigger 5. In a gun of this type the hammer 3 is released by pulling on the trigger 5 so that said hammer may strike the firing pin 2. A person when aiming the gun at a target or other object pulls the trigger 5 to fire the gun, and the pull upon the trigger brings about a muscular contraction in the person having a tendency to distort or interfere with the aim so that accuracy of the aim will be impaired, this condition being commonly known as "flinching". To prevent flinching or the impairing of the aim of the gun by the person, my invention is employed and consists of an auxiliary sear 6, one end of which is pivoted to the gun frame, as shown at 7, with the auxiliary sear extending alongside the head 8 of the trigger 5 so that on pulling of the trigger 5 the head 8 thereof will effect movement of the auxiliary sear 6 prior to effecting movement of the main sear 4. The free end of the auxiliary sear 6 is formed with an enlargement 9 provided with a notch 10 in its upper side to receive a tension spring 11, the latter being secured to the gun frame 1, as shown at 12, and overlying the trigger head. Formed integrally with the pivoted end of the auxiliary sear 6 is a dog 13 arranged at right angles with the auxiliary sear and lying in the path of movement of the hammer 3 when the latter is moved from firing position to a cocked position. When my invention is applied to a gun, the hammer 3 is provided with a notch 14. The movement of the hammer into a cocked position places the notch 14, in the path of movement of the notched end of the dog 13 so that a pull made on the trigger moves the notched end of the dog into the notch of the hammer prior to the trigger head 8 engaging and moving the main sear 4. After the notched end of the dog 13 has entered the notch 14 of the hammer the trigger head rocks the main sear 4 disengaging the latter from the hammer, however, the hammer remaining in a substantially full cocked position by the auxiliary sear. To fire the gun, the trigger is released and the spring 11 forces the auxiliary sear 6 into a pivotal movement freeing the dog 13 from the notch 14, thus permitting the hammer 3 under its conventional propulsion means to strike the firing pin to discharge the cartridge of the gun.

An attachment constructed in accordance with the foregoing and when applied to the gun will eliminate flinching or the interrupting of the aim of the gun by a person due to muscular con-

traction of the person when pulling the trigger. The firing of the gun takes place on the release of the trigger wherein the muscles of the person relax and do not affect the aim, thereby permitting more accuracy to be obtained in shooting. An attachment of this character may be easily and quickly applied to a conventional type of gun and when it is desired to return the gun to a conventional trigger action the attachment may be removed.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of my invention, as claimed.

Having described the invention, I claim:

A gun construction comprising a frame, a spring-pressed hammer pivoted to the frame for actuating a firing pin, a trigger head pivoted to the frame, a trigger carried by said head to impart pivotal movement to the latter, a spring-pressed main sear pivoted to the frame for holding the hammer in cocked position and engageable by the head after a certain movement of the trigger to release the hammer from said cocked position, a substantially L-shaped auxiliary sear pivoted to the frame with one portion thereof resting on the head and the other portion extending at right angles to the main sear and shouldered to engage with the hammer during initial movement of the trigger for allowing a limited movement of the hammer from a full cocked position when released by the main sear, and a spring secured to the frame and engaging the auxiliary sear to disengage the latter from the hammer during the releasing of the trigger to permit striking of the firing pin by said hammer.

THOMAS L. ANDERSON.