

Dec. 31, 1946.

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2,413,520

TRIGGER STOP FOR FIREARMS

Filed Dec. 19, 1944

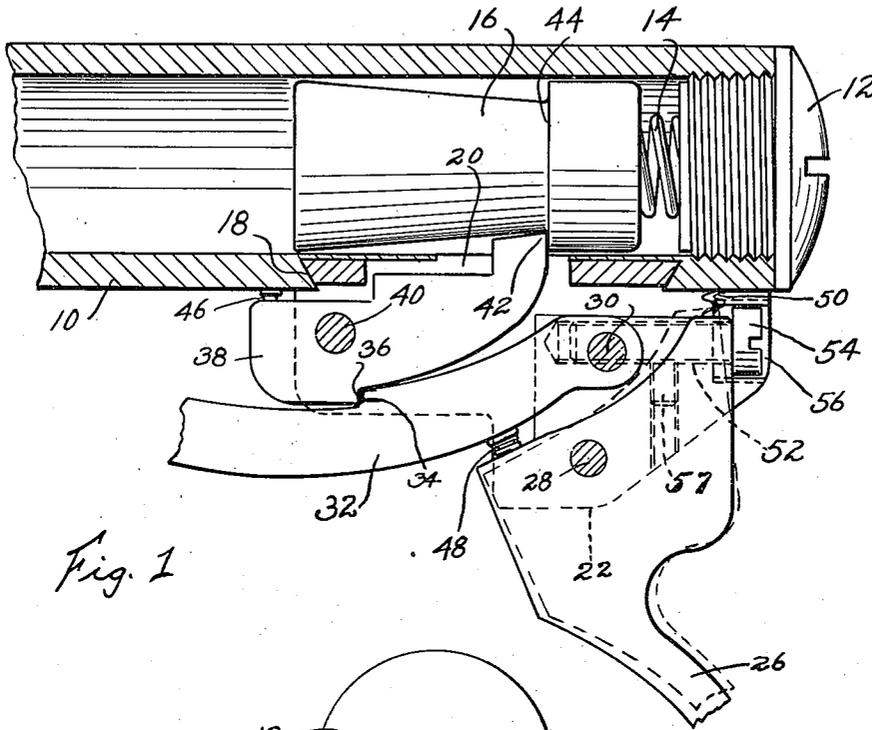


Fig. 1

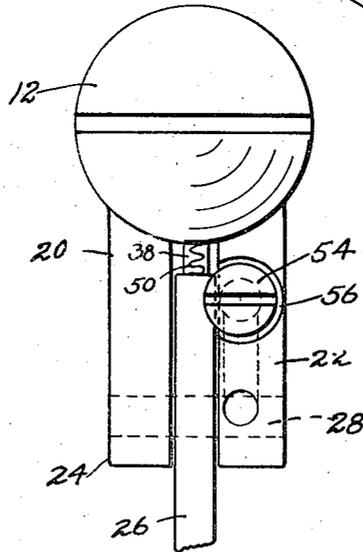


Fig. 2.

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2,413,520

TRIGGER STOP FOR FIREARMS

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Application December 19, 1944, Serial No. 568,852

2 Claims. (Cl. 42-69)

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This invention relates to an adjustable and accurate trigger stop for firearms for locating the trigger in correct position while the trigger is in non-firing condition.

Objects of the invention include the provision of a trigger stop for firearms for maintaining the trigger in correct position in non-firing condition thereof and comprising a housing mounting the trigger and the sear and affixed to the receiver of the firearm, said housing including a pair of spaced depending legs between which the trigger is pivoted, there being an adjustable stop mounted on one of the legs for engagement with a rear face of the trigger to stop the same in desired position, said stop being easily adjustable as desired.

Further objects of the invention include the provision of a firearm comprising a hammer, a sear for the hammer, a trigger, and a disconnecter lever pivoted to the trigger and having an engagement with the sear for actuating the same upon movement of the trigger to firing position, said sear, disconnecter lever, and trigger all being mounted on a single housing secured to the receiver of the firearm, said housing being provided with an adjustable element for positioning the trigger and hence locating the disconnecter lever in non-firing position of the firearm.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawing, in which

Fig. 1 is a partial elevational view of the operating parts of the firearm, parts being in section; and Fig. 2 is a view in rear elevation of the parts of Fig. 1.

In the drawing the numeral 10 represents a receiver for a firearm, it being contemplated that the receiver 10 will have a barrel secured thereto and extending forwardly or to the left in Fig. 1. However the barrel and stock for the firearm as well as the bolt, etc., have been omitted from the drawing for the purpose of clarity of illustration. The receiver 10 is closed at the rear end of the firearm by means of a bumper plug 12, the latter forming a reaction point for a hammer spring 14 normally urging a hammer 16 to the left. The receiver 10 is undercut as at 18 for a purpose to be described.

The undercut portion 18 of the receiver forms a securing means for a U-shaped element 20 which is dovetailed to correspond with the undercut portion 18, the latter receiving the dovetail as clearly shown in Fig. 1. The U-shaped element is provided with a pair of legs 22 and 24 which

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are spaced apart and form a housing for receiving the trigger 26, the latter being pivoted thereto on a pin 28. Pivoted to the trigger at 30 there is a disconnecter lever 32 which is similar in form to that disclosed in my Patent No. 2,356,726. This disconnecter lever is provided with a shoulder 34 having engagement with a complementary shoulder 36 on a sear 38 pivoted at 40 to the legs 22 and 24. The sear 38 is provided with a nose 42 extending upwardly through an aperture in the receiver for engagement with a shoulder 44 on the hammer 16. A sear spring 46 normally urges the sear in a counterclockwise direction so as to bring the nose 42 up into the path of the hammer. There is a disconnecter spring 48 interposed between the lower edge of the disconnecter 32 and a surface of the trigger 26 so that the disconnecter lever is normally urged in a clockwise direction. A trigger spring 50 bears against the trigger and forces it in a clockwise direction from the dotted line firing position thereof to the solid line non-firing position.

In leg 22 only of the trigger housing there is formed a drilled and tapped hole for receiving a machine screw or the like 52 having a head 54. The head 54 is contained within a recess 56 so that the head 54 may stop short of the rear surface of the leg 22. A set screw or the like as indicated at 57 is used to secure the screw 52 in its adjusted position. The screw head 54 clearly projects laterally outwardly into the space between legs 22 and 24 but does not project laterally outwardly of the housing and it will be seen that this effect is achieved by placing the tapped hole to the left of the center of the leg 22 as seen in Fig. 2.

It will be apparent that the action of this firearm depends on the degree of engagement of the sear notch 42 with the hammer groove 44 and also upon the degree of engagement of the shoulders 34 and 36. This is because the fire arm will be fired upon retracting the trigger in a counterclockwise direction, forcing the disconnecter lever forwardly and thus rotating the sear in a clockwise direction to release the hammer shoulder 44. The deeper the engagement between the sear and hammer the slower the action. The degree of this engagement however is dependent on the position of the disconnecter lever 32 when the parts are at rest and the position of the disconnecter is clearly dependent upon the idle position of the trigger. With the parts in position as shown in Fig. 1, and it being desired to obtain a crisper action, the screw 52 may be turned to advance the trigger slightly in a counterclock-

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wise direction thus pushing forwardly on the dis-
connector lever and forcing the sear in a clock-
wise direction so as to vary the engagement of
the sear and the hammer. Once the desired ac-
tion is determined, the set screw 57 may be used 5
to insure the location of the screw at 52. Of
course the screw 52 may be adjusted in either
direction but in any case the trigger spring and
stop will always insure that the trigger, and hence
the disconnecter lever and sear, will always come 10
back to the same position between shots.

Having thus described my invention and the
advantages thereof, I do not wish to be limited to
the details herein disclosed, otherwise than as
set forth in the claims, but what I claim is:

1. A firearm comprising a receiver, a hammer
therein, a U-shaped trigger housing depending

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from the receiver, the closed end of the U being
secured thereto, a sear pivoted to the trigger
housing, a trigger pivoted between the legs of
the U, a lever pivoted to the trigger for motion
of the former by the latter, said lever having a
disengageable connection with the sear, a trigger
spring urging the trigger toward non-firing posi-
tion, and a headed bolt threaded into the trigger
housing in position for the trigger to contact the
underside of the head of the bolt to adjustably
limit the motion of the trigger under influence
of the spring.

2. The firearm of claim 1 wherein the bolt is
threaded into one leg only of the trigger housing,
the head of the bolt extending into the space
between the legs of the trigger housing.

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