N. L. BEATTY.
SINGLE TRIGGER MECHANISM FOR DOUBLE BARRELED GUNS.
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Fig. 1

Fig. 2

Fig. 3

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To all whom it may concern:

Be it known that I, Norman L. Beatty, a citizen of the United States, residing at Punxsutawney, in the county of Jefferson and State of Pennsylvania, have invented certain new and useful Improvements in Single-Trigger Mechanism for Double-Barreled Guns, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to fire arms, and particularly to that class of fire arms in which a plurality of hammers are employed which may be released for the discharge of the gun by the operation of a single trigger.

The main object of my invention is the provision of a very simple mechanism to this end which may be easily applied to all guns of ordinary make and which does not require any special construction of the gun.

A further object of my invention is to provide a single trigger mechanism of the character described, which has very few parts, and these parts of such construction that they may be readily assembled.

Still another object of my invention is the provision of a single trigger mechanism wherein the selection of the sear to be operated is secured by a rotation of a sear selecting and operating member, this operating member in turn being controlled by a seating member which is mounted between the lock plates for lateral reciprocation.

A further object of my invention is the provision of a construction of this character wherein, by the provision of four new parts and a changing of the shape of two other parts of the gun, a double barreled shot gun having two triggers and whether hammer or hammerless may be transformed into a single trigger gun with perfect results and at a very small cost.

Other objects will appear in the course of the following description.

My invention is illustrated in the accompanying drawings as applied to a Meriden gun, but it is to be understood, of course, that the invention may be applied to any standard form of double barreled shot gun.

In the drawings, Figure 1 is a side elevation of a portion of the gun with one of the lock plates removed and showing my single trigger mechanism applied thereto; Figure 2 is a perspective view of the single trigger mechanism employed by me; Figure 3 is a vertical section taken rearward of the single trigger mechanism, and also showing the usual gun trigger.

Referring to these figures, 2 designates the usual frame of the gun, 3 the usual tang stud, 4 the usual tang screw, 5 trigger, 6 the hammer, and 7 the sears. All of these parts are of any usual or ordinary construction, except the sears which are slightly changed, as will hereafter be stated. I have also illustrated in connection with the gun, a usual safety device including the safety slide 9. This however, is not part of my invention.

As before stated, the sears are slightly changed from their ordinary form, this change consisting in angularly bending or offsetting the ends of the sears, as illustrated in Figure 3, these angular terminal bends or offsets of the sears being designated 10. The sears are pivoted or otherwise mounted in any suitable manner and engage in the hammer in the usual manner.

Mounted upon the trigger 5 is a supporting plate or cap 11 which has an angular flange 12 at one end whereby a screw 13 may attach the plate to the trigger. This cap or plate 11 lies flat upon the face of the trigger and is adapted to pivotally support the sear actuating member 14. This member is spatulate in form, as shown clearly in Figure 2, and is pivoted to the plate 11 by means of a stud 15. Rearward of the stud 15 and extending upward therefrom is a pin 16 which is angularly bent at its upper end. It will be seen from Figure 3 that the sear actuating member, being pivoted, is shiftable beneath either one of the angular ends 10 of the sears, and that when this actuating member is beneath the sear a pull upon the trigger will cause the actuating member to engage with the sear selected, trip it and release the corresponding hammer, and that a further pull upon the trigger will cause the member 11 to engage the opposite sear, trip it and release the hammer.

For the purpose of shifting the sear actuating member 14 to fire either the right or left-hand barrel, as desired, I provide a transversely arranged reciprocable selector bar 17, having a downwardly extending arm 18, this arm being longitudinally slotted, as at 19, for the reception of the angular end of the pin 16. This arm 18 is...
rigidly mounted upon the bar 17. The selector bar 17 at its ends is reduced, as at 20, and these reduced ends have sliding engagement in the lock plates 21 of the gun and project therethrough into position to be readily engaged by the thumb of the user. In order to hold the selector bar 17 in adjusted position, I form the upper edge of the selector bar with a pair of notches 22, these notches being rounded and supporting a spring detent 25 in such position that it will engage with these notches and yieldingly resist any lateral movement of the selector bar.

15 The operation of my invention will be plain from what has gone before. As illustrated, the selector bar has been set to fire the left barrel first. In this case the left-hand sear is disposed above the actuating member 14 and the right-hand sear is disposed alongside of the actuating member but in a position immediately over the plate 11. If now the trigger be pulled, the left-hand barrel is discharged first. Then if it is desired to immediately after fire the right-hand barrel a further pull on the trigger will cause the plate 11 to engage the right-hand sear and discharge the right-hand barrel, the pin 16 moving upward through the slot 19 in the arm 18. In order to discharge the right-hand barrel first, the selector bar is pushed inward in the direction of the arrow in Fig. 3, and the same action is repeated, only in reverse order, the right-hand barrel being discharged first.

20 It will be seen that my single trigger mechanism has very few parts and necessitates very small changes in any standard make of gun. The new parts are the trigger plate 11, the actuating member 14, the selector bar 17, and the spring 25. The change to be made in the gun itself consists in forming angular terminal ends upon the sears, and in some makes of guns even this will not be necessary.

25 While I have illustrated certain specific details of construction, I wish it to be understood that these details may be modified in many respects to suit any particular style of gun without departing from the spirit of the invention.

Having thus described my invention, what I claim is:

1. In a single trigger mechanism for double barreled guns, a pair of sears each having a single trigger, a supporting plate mounted upon said trigger and extending beneath the ends of both of said sears, a sear actuating member pivoted upon said supporting plate and shiftable into a position beneath either one of said sears, and means for shifting the sear actuating member laterally to select the sear to be initially tripped, said means comprising a transversely extending slidably mounted selector bar, an arm extending downward from the selector bar, said arm being vertically slotted, and a pin extending from the sear actuating member and entering said slot and having sliding movement therein.

2. In a single trigger mechanism for double barreled guns, a pair of sears having angularly formed extremities, a single trigger, a supporting plate mounted upon said trigger and extending beneath the angular ends of both of said sears, a sear actuating member pivoted upon said supporting plate and shiftable into a position beneath either one of said sears, and means for shifting the sear actuating member laterally to select the sear to be initially tripped, said means comprising a transversely extending slidably mounted selector bar, an arm extending downward from the selector bar, said arm being vertically slotted, a spring detent holding the selector bar in either of its shifted positions, and a member extending upward from the sear actuating member and extending into the slot of said arm whereby the sear actuating member may be shifted.

3. In a single trigger mechanism for double barreled guns, the combination with a gun frame including oppositely disposed lock plates, a pair of hammers, a pair of sears, and a single trigger, of a supporting plate mounted upon the trigger and vertically movable therewith, said supporting plate extending beneath the ends of both of said sears, a sear actuating member pivotally mounted upon the supporting plate for lateral movement into position beneath either one of the sears, a selector bar disposed between the lock plates and above the hammers, said bar having reduced ends projecting through the lock plates whereby the selector bar may be laterally shifted, an arm extending downward from the selector bar and vertically slotted, a pin extending upward from the actuating member and having sliding engagement in said slot, and a spring detent holding the selector bar in either of its adjusted positions.

4. A single trigger attachment for double barreled guns including a supporting plate having a flange at one side, the supporting plate being adapted to rest upon a trigger with its flange bearing against the side of the trigger, said plate being adapted to extend beneath the ends of a pair of sears, means for holding the supporting plate to the trigger, a sear actuating member pivoted upon the supporting plate for lateral movement into position beneath either one of the pair of sears, a selector bar having reduced extremities adapted for reciprocation through the lock plates of the gun, said selector bar being formed with a pair of notches, a spring adapted to be mounted within the gun frame and engaging said
notches, and an arm mounted upon the selector bar and extending therefrom and longitudinally slotted, the actuating member being provided with an upwardly projecting pin adapted for reciprocation in said notch.

5. In a single trigger mechanism for double barreled guns, the combination with oppositely disposed lock plates, a pair of hammers mounted thereon, a pair of sears operatively engaging the hammers and having inwardly bent ends, and a single trigger mounted below the sears, of an angular supporting plate mounted upon the upper edge of the trigger and being disposed beneath the ends of both said sears, a screw passing through the side supporting plate and engaging the trigger, a sear actuating member pivoted upon the upper face of the supporting plate for lateral movement into position beneath either one of said sears, said plate rearward of its pivotal point having an upwardly and rearwardly extending pin, a sear actuating bar disposed above the hammers and having reduced extremities extending through the lock plates whereby the bar may be shifted laterally, said bar being formed with a pair of notches, a spring detent engaging the notches in the bar to hold the bar in its laterally adjusted position, and an arm extending downward from the bar and longitudinally slotted for engagement with the pin on the actuating member.

6. In a single trigger mechanism for double barreled guns, a trigger, a pair of sears having ends extending over the trigger, a plate mounted upon the trigger and having its margins extending beneath the ends of both said sears and having a depending flange engaging against the side of the trigger and perforated for the passage of a screw, and a sear selecting and actuating member mounted upon said plate for lateral movement and movable upward with said plate and adapted to be shifted into position beneath either one of said sears, and means for laterally shifting the plate.

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

NORMAN L. BEATTY.

Witnesses:

WALTER S. BROWN,
IDA HARK.