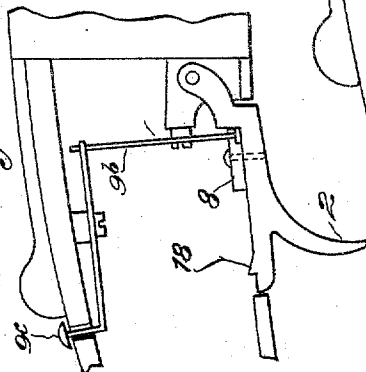
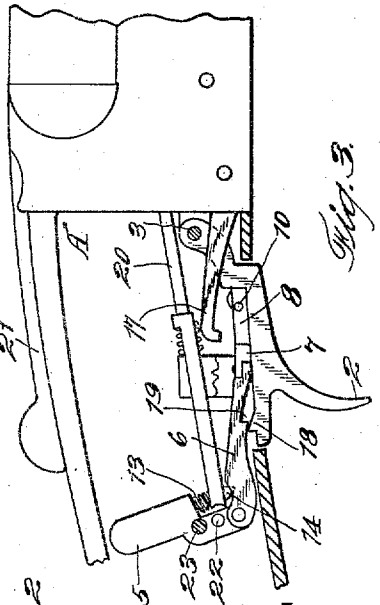
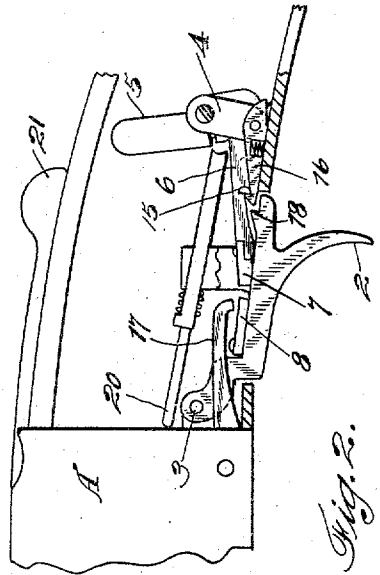
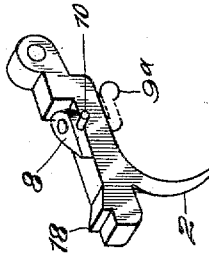
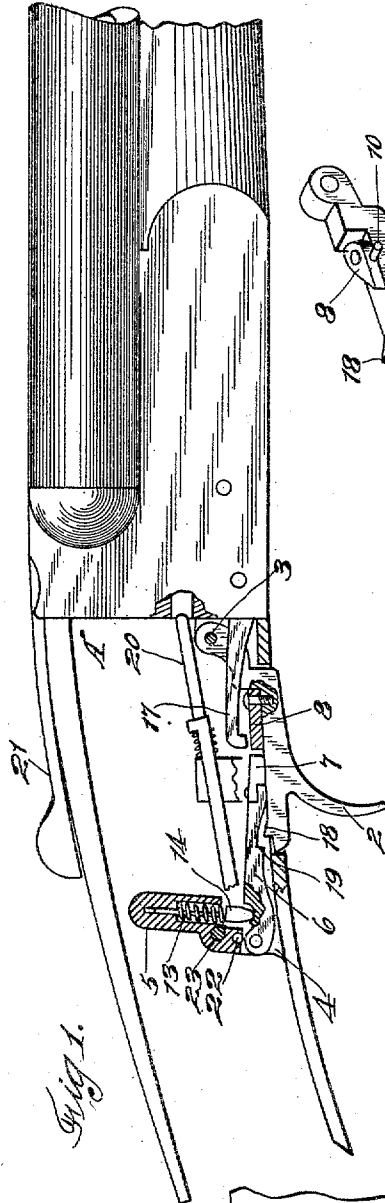


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SINGLE TRIGGER MECHANISM FOR FIREARMS.
APPLICATION FILED JUNE 4, 1909.

956,825.

Patented May 3, 1910.

2 SHEETS—SHEET 1.



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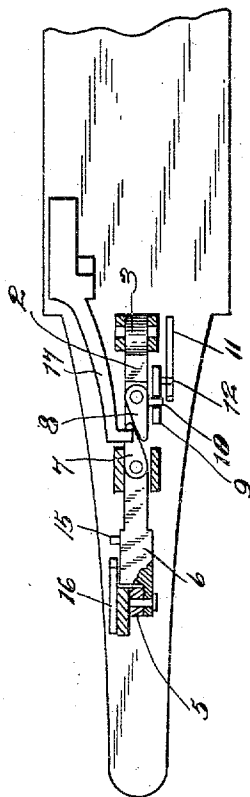


Fig. 5.

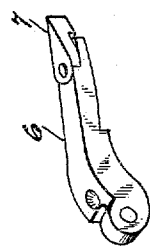


Fig. 6.

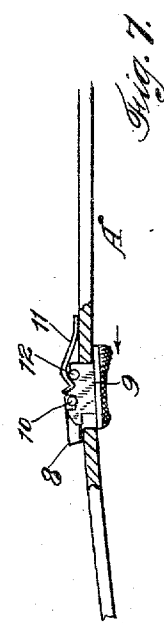


Fig. 7.

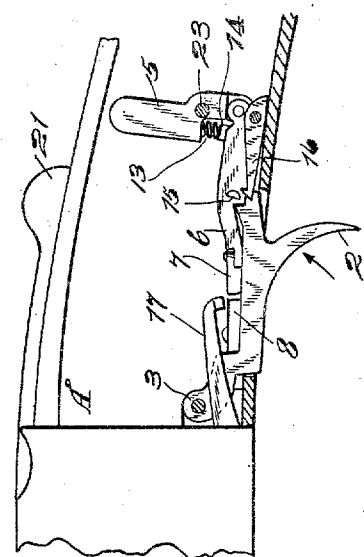


Fig. 8.

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UNITED STATES PATENT OFFICE.

WILLIAM H. PRICE, OF SAN FRANCISCO, CALIFORNIA.

SINGLE-TRIGGER MECHANISM FOR FIREARMS.

956,825.

Specification of Letters Patent.

Patented May 3, 1910.

Application filed June 4, 1909. Serial No. 500,157.

To all whom it may concern:

Be it known that I, WILLIAM H. PRICE, citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Single-Trigger Mechanism for Firearms, of which the following is a specification.

My invention relates to a mechanism whereby a plurality of gun barrels mounted upon the same frame or stock may be selectively or successively discharged by the action of a single trigger.

It consists in a combination of parts, and in details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a right side elevation, showing the parts in position for the first discharge. Fig. 2 is a left side view of the same. Fig. 3 is a right side view, with the parts in position after discharge of the right hand barrel. Fig. 4 is a perspective view of the trigger showing a switch adjustment. Fig. 5 is a top view and partial section. Fig. 6 is a perspective view of the switch carrier. Fig. 7 is a view of the switch latch. Fig. 8 is a partial view of the mechanism from the left side, showing the position of the parts after the discharge of the right hand barrel. Fig. 9 shows a means to adjust switch 8 from the top.

A is the frame of a gun.

2 is a single trigger fulcrumed to a suitable post on the trigger-plate as shown at 3.

4 is a safety-post; 5 is a lever pivoted to said post, and having connected with its lower end the switch-carrier 6. To the front end of this carrier is pivoted a switch 7.

8 is a selective switch point pivoted upon the trigger-blade, and turnable to one side or the other so as to enable the user of the gun to determine which barrel should be fired first. By the use of this switch either the right or the left barrel may be fired before the other. This switch may be actuated by a sliding thumb-piece 9, Fig. 7, the upper edge of which is notched so as to engage a pin 10 which projects from the side of the switch 8.

The thumb-piece 9 projects through the trigger-plate so that it may be easily moved forward or back by the operator, and it is

held in either position of adjustment by a bent spring 11, which engages with a pin 12 upon the slide, and thus retains the switch point at either one side or the other of its pivot, so that when the automatic switch-point 7 is moved forward by its carrier, it will be diverted by the switch-point 8 to either the right or the left, in accordance with the position to which said point has been set, and this action determines which of the barrels of the gun shall be fired first.

The lever 5 to which the carrier 6 is pivoted is bored and contains a spring 13 which, acting upon a bolt 14 slidable within the lever acts through this bolt to press the carrier 6 downward and forward.

The carrier has projecting from its left side a pin 15 which, when the carrier has been retracted by the movement of the lever 5, will engage with a latch 16, which latch holds the carrier in its retracted position against the action of the spring 13. In this position the switch 8 lies beneath one of the sears 17, and is in position to act thereon and fire one barrel of the gun, the hammer of which this sear disengages. When the trigger is pulled it also raises the carrier 6 until the pin 15 is disengaged.

The trigger-bar has upon its upper edge a catch 18, and the lower edge of the carrier-bar has a notch 19 in it upon the side opposite to that which carries the pin 15, so that when the trigger is pulled, the carrier will be raised until it disengages the pin 15 from the notch of the latch 16, and this allows the spring of the lever 5 to act and force the carrier forward until the notch 19 engages with the catch 18 of the trigger blade. The lifting of this carrier bar by the pull of the trigger, causes 8 to engage one of the sears 17 and thus discharge the barrel, to the lock of which that sear is connected. The release of the trigger allows it to drop until the catch 18 has been disengaged from the notch of the carrier bar, when the spring continuing its action, throws the carrier bar forward, and the turnable switch tongue 7 engaging with the switch tongue 8 will be thrown to one side, thus bringing the parts in position, so that a second pull of the trigger will actuate the sear of the other barrel through tongue 7.

It will be seen from the previous descrip-

tion that the position of the switch tongue 8 determines which sear shall be engaged by the first pull of the trigger, and the lifting of the switch tongue 8; the other being dis-
 5 engaged by the subsequent pull after the carrier bar tongue 7 has been shifted to engage with the other sear.

The operation of this mechanism will then be as follows: As applied to a double
 10 barrel hammerless gun to which it is in the present illustrations adapted, the lock between the barrels and the frame is disengaged by the movement of the top lever 21, and by this movement the rod 20 is forced
 15 backward, the rear end engaging a pin 22 on the lever arm 5, and this causes said lever arm to turn about the pivot point 23 which connects it with the safety-post 4. This action also compresses the spring 13 within
 20 the lever 5, and the spring acts to press the bolt 14 against the carrier-bar 6, thus pressing the latter downward and forward. As soon as the carrier bar has been retracted, the pin 15 will engage with the latch 16, and
 25 thus hold the parts in this position. The selective switch 8 is turned by the movement of the operating thumb piece 9 so that its point 8 stands to one side or the other of the center line so as to direct the automatic
 30 switch tongue 7 to the opposite side as previously described. When the trigger is first pulled, the trigger blade acts to raise the carrier against the tension of the spring 13, and to disengage the pin 15 from the latch 16;
 35 at the same time the raising of the blade causes an engagement of the switch tongue 8 with one of the sears, and by lifting said sear the hammer is released, and the pressure of its spring acts to discharge the barrel to which this portion of the mechanism
 40 belongs. At the same time the release of the pin 15 from its latch, allows the spring 13 to act, and through its lever force the carrier forward until the catch 18 of the trigger blade is in line with the notch 19 of the carrier, the shoulder of which notch thus en-
 45 gages the catch, and the further forward movement of the carrier is arrested after the discharge of the first barrel. The recoil of the gun upon the firing of the first barrel produces what is known as the involuntary pull upon the trigger, which thus maintains the parts 18 and 19 in engagement until the relaxation of the finger grip which allows
 50 these parts to become disengaged, and the carrier is then forced forward, and its switch 7 engaging with the switch 8 will be turned to one side, and this brings it beneath the other sear so that when the trigger is again
 60 pulled, the other barrel of the gun will be discharged.

In the modification Fig. 4, a turnable bolt 9^a may be used in place of a slide to turn the switch tongue 8.

65 In Fig. 9 the tongue 8 may be turned from

the top of the stock, by connecting the actuating levers 9^b with the button 9^c.

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

1. The combination with a plurality of
 locks and the sears thereof, of a firing mechanism comprising a single trigger, a spring-pressed carrier, a horizontally turnable
 70 switch tongue pivoted to the front end of said carrier, an adjustable switch with which the carrier tongue engages during its forward movement, whereby the fixed tongue is retained in position to engage the sear of one
 75 lock upon the first pull of the trigger, and the movable tongue shifted to engage the sear of the other lock upon a second pull.

2. The combination with a plurality of
 locks and the sears thereof, of a single trigger having a catch upon the upper edge of
 85 its blade, a mechanically and transversely turnable switch point pivoted on the front portion of the trigger blade, a spring-pressed carrier having a transversely turnable switch point upon its front end, said
 90 point being adapted to engage the first named switch point to be turned to one side or the other, a spring-actuated lever with which the rear of the carrier bar is engaged, said spring acting to force the carrier bar
 95 downward and forward, a pin projecting from the carrier bar, a latch with which the pin is engaged when the carrier bar is withdrawn, the carrier bar being lifted, and said
 100 pin being disengaged by the first pull of the trigger, a notch upon the carrier bar which engages the catch on the trigger blade, after the first barrel has been discharged, said engagement being released by the relaxation of
 105 the trigger pull to allow the carrier bar and its switch to be moved forwardly into engagement with the fixed switch, and in position to engage the sear of the second barrel upon the second pull of the trigger.

3. The combination with a plurality of
 locks and the sears thereof, of a single trigger, a carrier bar, a spring-actuated lever by
 110 which said bar is pressed forward and downward, a switch tongue pivoted to the front of the bar, a second switch tongue pivoted
 115 to turn horizontally upon the trigger blade, and means for locking said tongue to one side or the other whereby the carrier tongue is automatically shifted from the position to engage one sear, to a position to engage the
 120 other sear, by successive pulls of the trigger.

4. The combination with a plurality of
 locks and the sears thereof, of a single trigger having a switch point pivoted thereto,
 125 means by which it may be turned horizontally to one side or the other, a carrier having a switch point pivoted to its front end so as to engage the first named switch point, and be automatically turned to one side or
 130 the other, a fulcrumed spring-pressed lever

to which the rear end of the carrier is pivoted, a rod by which the lever and carrier are retracted when the gun is opened, a latch by which the parts are retained in their retracted position, said latch being disengaged upon the first pull of the trigger and its tongue raised to engage the sear of the first barrel, a second latch by which the carrier engages the trigger after the first pull, said second latch being released by the relaxation of the pull upon the trigger to allow the carrier to move to its ultimate forward position and its switch tongue be turned in position to engage with the sear of the second lock.

5. The combination with a plurality of sears, and the locks thereof, of a longitudinally reciprocating spring-pressed carrier, a latch by which it is retained in an extreme retracted position after the gun has been opened and closed, a single trigger adapted to engage and raise the carrier to disengage its first latch, a catch carried by the trigger by which the forward movement of the carrier is arrested after the discharge of the first barrel, said latch being released by the relaxation of the pull upon the trigger to allow the carrier to move to its extreme forward position, a switch tongue pivoted to the front of the carrier and turnable horizontally to one side or the other, a second switch tongue pivoted in line with the first named tongue, means for turning said second tongue so that the first tongue will engage one side or the other of said second tongue, and itself be automatically turned by such engagement so as to engage the sear of either lock.

6. The combination with a plurality of sears and the locks thereof, of a longitudinally reciprocating spring-pressed carrier, a horizontally turnable switch tongue pivoted thereto, latches by which the carrier is successively engaged, first to retain it in its rearward position, a single trigger, a tongue thereon which is raised to discharge the first barrel, a second latch by which the carrier is arrested after the first discharge, said latch being also released by the relaxation of the trigger pull to allow the carrier to move to its extreme forward position, and means for horizontally shifting its switch

tongue into position to engage the second sear when the trigger is again pulled.

7. The combination with a plurality of locks and the sears thereof, of a single trigger, a longitudinally movable carrier, a switch tongue horizontally turnable upon the front of said carrier, means by which said tongue is moved to stand in line with the sears of the first or second locks, a lever to which the rear end of the carrier is pivoted, a spring-pressed bolt contained within said lever and engaging the carrier whereby the downward and forward movement of the carrier is effected, and a latch and a catch by which the carrier is successively engaged, said latch and catch being released by successive pulls upon the trigger.

8. The combination with a plurality of locks and the sears thereof, of a single trigger, a longitudinally movable carrier having a horizontally turnable switch tongue pivoted to its front end, a lever having a spring-pressed bolt pressing upon the carrier, a latch and a catch by which the carrier is successively engaged previous to the first and second pulls of the trigger, and released therefrom by said pulls, a switch tongue pivoted upon the front of the trigger blade to engage the tongue of the carrier bar when the latter moves forward, a thumb-piece, means engaging said thumb-piece with the switch tongue, and a spring-pressed latch by which said tongue may be retained with its point upon one side or the other of the carrier tongue.

9. The combination with a plurality of locks and the sears thereof, of a single trigger, a switch tongue mounted thereon, means to turn said tongue to engage either sear when the trigger is first pulled, a carrier bar having a turnable switch tongue mounted thereon, said tongue engaging the first named tongue, and turned thereby to engage the second sear upon the next pull of the trigger.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM H. PRICE.

Witnesses:

GEO. H. STRONG,
CHARLES EDELMAN.