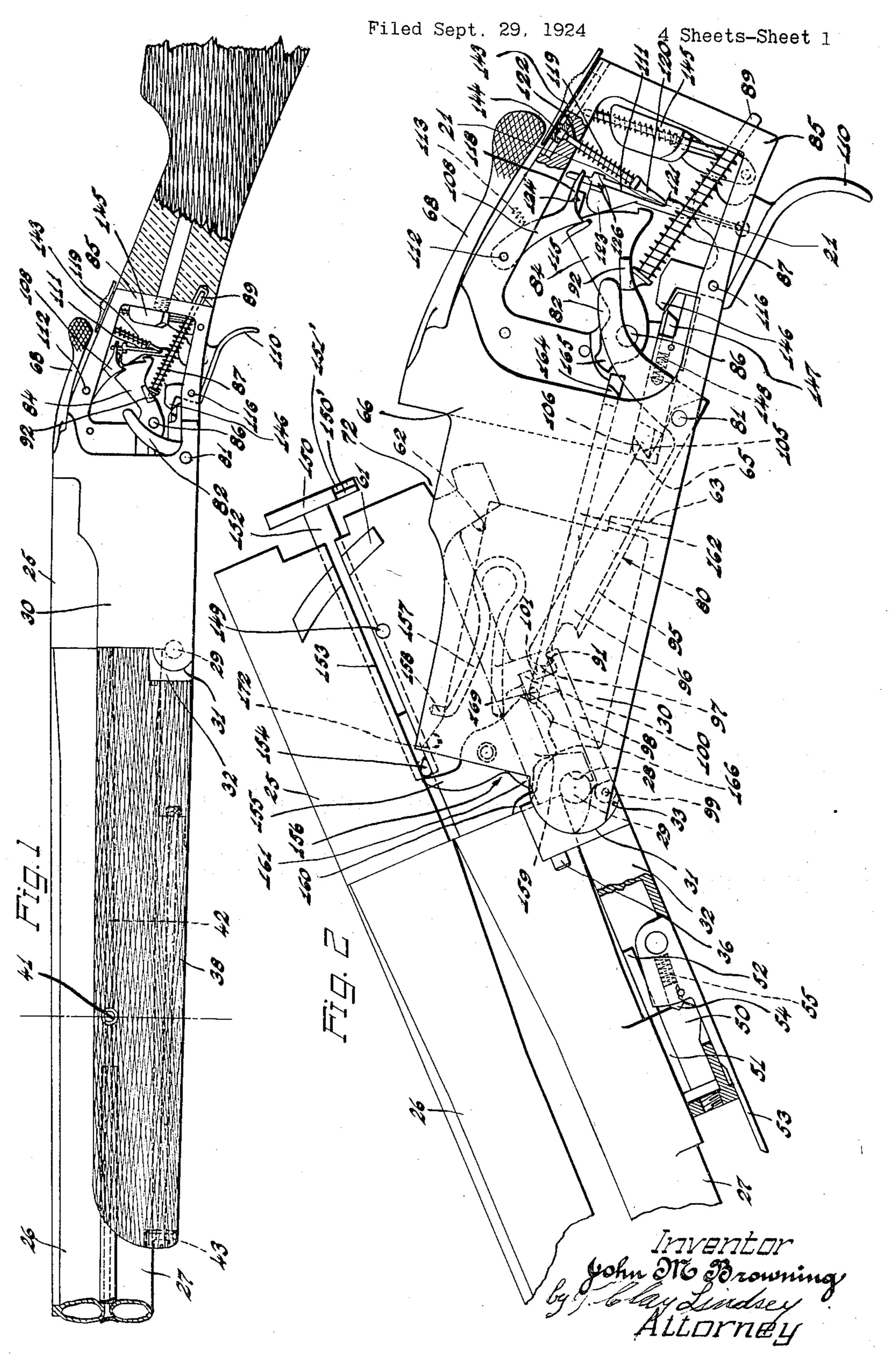
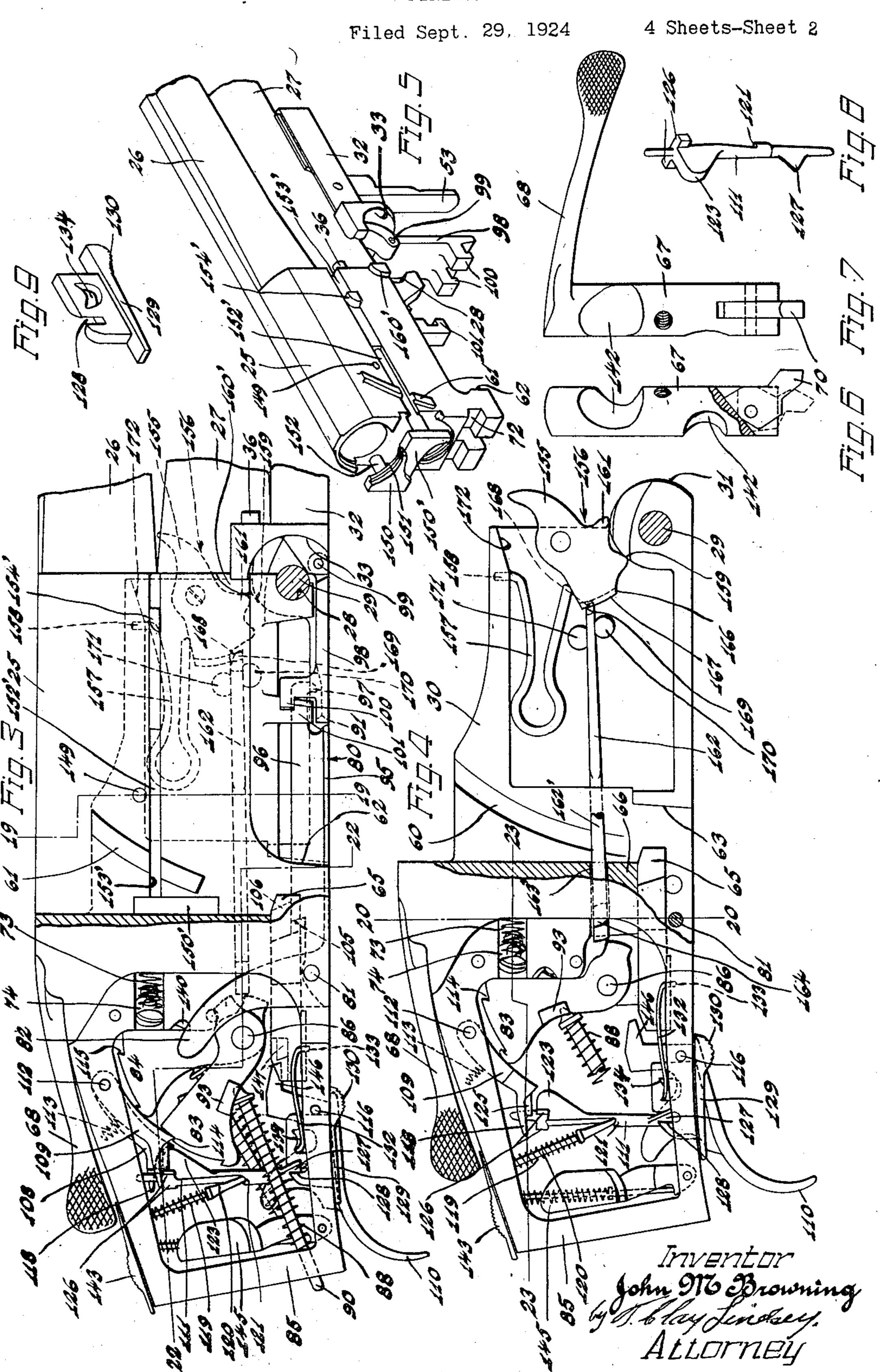
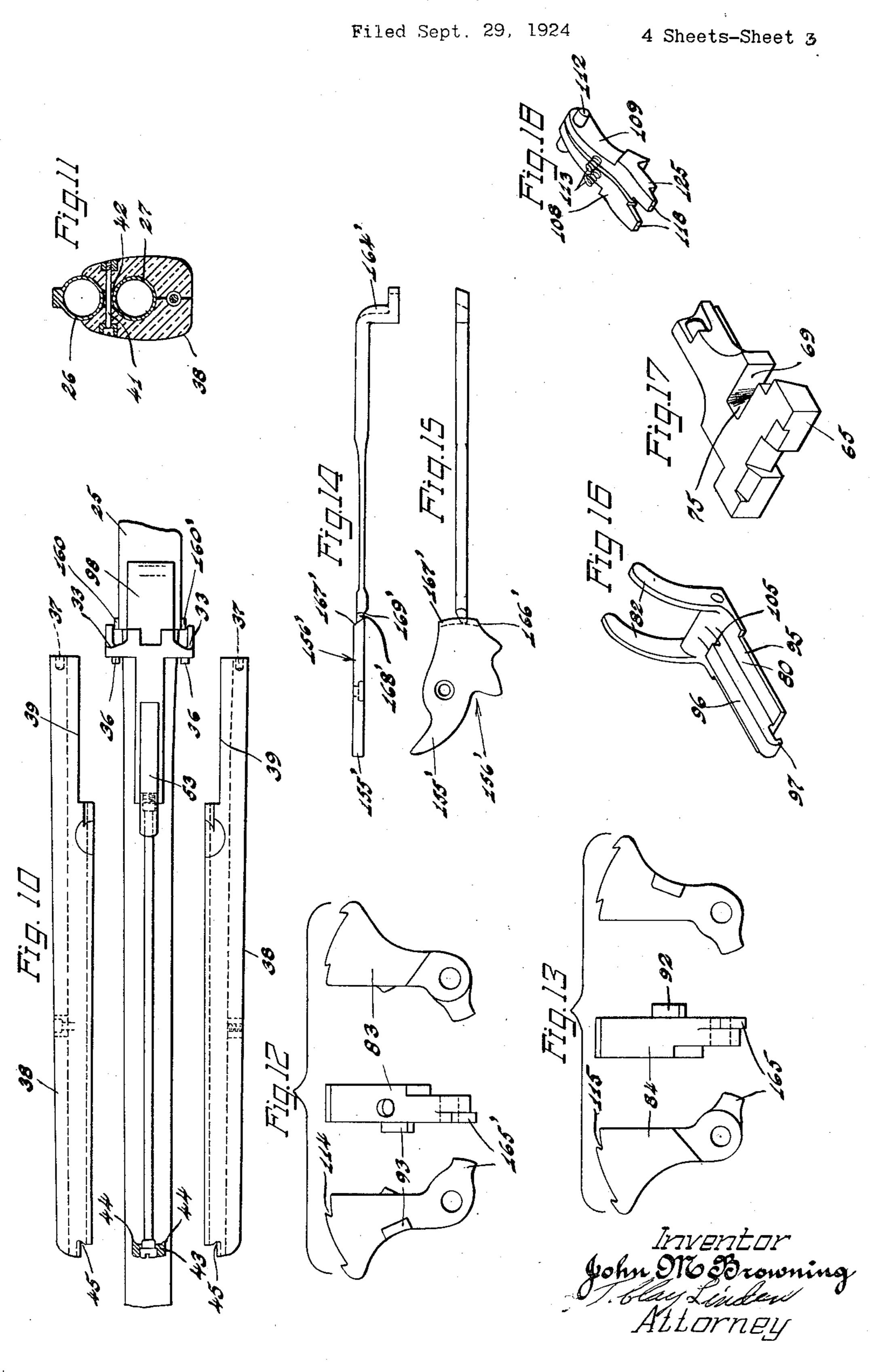
FIREARM



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FIREARM 4 Sheets-Sheet 4 Filed Sept. 29, 1924 Inventor

UNITED STATES PATENT OFFICE.

JOHN M. BROWNING, OF OGDEN, UTAH.

FIREARM.

Application filed September 29, 1924. Serial No. 740,454.

To all whom it may concern:

Be it known that I, John M. Browning, a citizen of the United States, and a resi- following detailed description. dent of Ogden, county of Weber, State of . The invention accordingly consists in the 60 5 Utah, have invented certain new and useful features of construction, combination of elefollowing is a specification.

10 vention find peculiar adaptation in firearms claims. of the "over and under" type, such as is In the accompanying drawings, wherein disclosed in my co-pending application, Se- I have shown for the purposes of illustrarial No. 668,575, filed October 15, 1923.

The aim of the present invention is to vention may take, provide a firearm of the character described, having various features of novelty and ad-

vantage.

A more particular object of the invention 20 type with the forearm adapted to fit the pose the firing mechanism; under barrel and a portion of the over bar-25 the forearm will closely fit throughout its ted; length against the barrels, substantially obthe forearm; the forearm may be assembled on and dissembled from the barrels without slipping the same over the forward end of the latter, a feature which is particularly advantageous where the forward end of the barrel is of increased diameter, to provide additional strength on account of the choke; 35 and the forearm (which is preferably slidably mounted on the barrels to permit the latter to be dismounted from the receiver) may be caused to frictionally engage the barrels with such pressure that the forearm 40 will be held against rattling or vibrations, and there will be sufficient "drag" on the forearm to permit it to be manually shifted in a most agreeable manner.

A further object of the invention is to pro- lever and its stem or post; vide an improved firing mechanism which is simple and economical in construction, and tor or element through which the trigger effective in operation, the arrangement being such that the barrels may be fired selectively, in either order; that is, the over barrel first and then the under one, or vice versa.

A still further object of the invention is be fired in the desired order; to provide improved mechanism by means of which a discharged shell is automatically ejected from the barrel in which it is fired, 88 and an unfired shell is retracted, but not ejected, when the gun is "broken."

Other objects of the invention will be in part obvious and in part pointed out in the

Improvements in a Firearm, of which the ments, and arrangements of parts which will be exemplified in the construction hereinafter This invention relates to firearms of the set forth, and the scope of the application shotgun type, and certain features of the in- of which will be indicated in the appended 65

tion one embodiment which the present in-

Figure 1 is a left hand side elevation of the gun with the front portion of the barrels and the shoulder portion of the butt stock broken away, a portion of the forward end is to provide a gun of the over and under of the stock being also broken away to ex- 75

Fig. 2 is a similar view but showing the rel in a manner generally similar to that parts in their positions when the gun is in shown in my said co-pending application, the an opened, or what is commonly termed present invention, however, being such that "broken" condition, the forearm being omit- 80

Fig. 3 is a right hand side elevation of viating all spaces between the barrels and the receiver and the rear end of the barrel section, the right hand side wall of the receiver being broken away and the firing 85 mechanism being illustrated with the right hand hammer cocked and the left hand one uncocked;

> Fig. 4 is a view similar to Fig. 3 but with the barrel section entirely omitted and both 90 hammers uncocked; the parts may be given the positions shown by taking down the gun and then pulling the trigger twice;

Fig. 5 is a perspective view of the rear end of the barrel section;

Fig. 6 is a view in front elevation of the stem or post of the top lever with its lower end partly in section;

Fig. 7 is a left hand side view of the top

Fig. 8 is a perspective view of the connecoperates the sears;

Fig. 9 is a perspective view of a member, herein termed a "shifter", for setting or 105 turning the connector so that the barrels will

Fig. 10 is an exploded view showing in bottom elevation the parts of the forearm and that portion of the barrel section to 110 which the forearm is connected;

Fig. 11 is a transverse sectional view taken

substantially on the line 11—11 of Fig. 1

through the barrels and forearm;

Fig. 12 shows a right hand view, a front view, and a left hand view, respectively, of 5 the right hand hammer;

Fig. 13 shows corresponding views of the

left hand hammer;

Fig. 14 is a view in top plan of the right hand extractor actuator or ejecting lever and 10 the catch or bolt associated therewith;

Fig. 15 is a left hand side view of the parts

shown in Fig. 14;

Fig. 16 is a perspective view of the cock-

ing lever;

Fig. 17 is a perspective view of the locking bolt;

Fig. 18 is a perspective view of the sears; Fig. 19 is a transverse sectional view taken substantially on line 19—19 of Fig. 20 through the receiver and breech piece;

Fig. 20 is a transverse sectional view taken substantially on the line 20—20 of Fig. 4;

25 Fig. 22 is a longitudinal sectional view

the line 22—22 of Fig. 3; and

mer, and the trigger then released. bracket 32, which is of like construction and hold the sections together. of similar operation to the corresponding The take-down lever bracket 32, together take-down bracket described and claimed in with the forearm to which it is secured, is my said co-pending application. The take- slidably mounted on the barrel section so down bracket, as shown in Figs. 2, 3 and 5, is as to permit separation of the bearing parts a relatively narrow rectangular piece or of the hinged connection between the barblock having at its rear end a portion of rel section and receiver when it is desired to

recesses 37 in the rear end of the forearm bracket for such movement and to limit the designated generally by the numeral 38. extent of such movement there is provided The forearm is provide at its rear end with on the underside of the under barrel 27 a a slot 39 in which the narrow portion of the depending lug 50 having a groove 51 at

it is hollow throughout its entire length and is substantially U-shape in cross-section, its sides being curved inwardly adjacent their upper edges so that the under barrel will fit snugly in the bottom of the rounded 70 groove, and the sides of the groove will fit in and fill up the concave spaces between the two barrels and closely fit and partly surround the over barrel. In accordance with the present invention, the forearm, in- 75 stead of being made in a single piece, is formed of two parts or halves connected together by a bolt 41 passing through the parts and through a slot 42 between the over and under barrels adjacent their rear 80 ends. Guns of the type here disclosed are made with their barrels of increased diameter at their forward ends where the pres-3, sure of the shot is relatively high on account of the choke, the intermediate portions 85 of the barrels having relatively thin walls for the sake of lightness in weight. It will Fig. 21 is a transverse sectional view taken be seen that by making the forearm in two substantially on the line 21—21 of Fig. 2; sections; that is, longitudinally splitting the same, the forearm may be assembled on 90 taken through the receiver substantially on the barrels without slipping the same over the forward ends of the latter, and the sec-Fig. 23 is a view taken on the line 23-23 tions may be drawn closely against the barof Fig. 4, and illustrates the position which rels (although the latter vary in diameter) the connector takes after the trigger is pulled so that there will be no unsightly spaces bethe first time to uncock the right hand ham- tween the forearm and the barrels, and in which spaces dirt or the like might collect. Referring to the drawings in detail, the A further object in making the forearm in "barrel section" (so termed for convenience) two sections is that the frictional engageincludes a breech piece 25 having two longi-ment between the forearm and the barrels 100 tudinal holes bored through it, one above may be adjusted to prevent looseness therethe other, and the respective over and under between, and there will be sufficient "drag" barrels 26 and 27 screwed or otherwise se- on the forearm to permit an agreeable mancured in the forward ends of these bores. ual sliding movement thereof. The fore-40 The breech piece 25 has at its forward lower arm is secured to the forward end of the 105 corner and just below the under barrel, a take-down bracket by means of a screw 42, forwardly facing recess or groove 28 which the sections being longitudinally grooved, receives a hinge pin or member 29 extending as shown in Figs. 10 and 11, to accommodate between the side walls 30 of the receiver, the this screw. The forward end of the screw 45 lower forward corners of these side walls passes through a union cap 43 countersunk 110 being curved as at 31, concentrically to the into the forward ends of the forearm sechinge pin 29. Adapted to engage against tion, and having at each side a fin 44 which these curved surfaces 31 are curved surfaces take into corresponding grooves 45 in the 33 provided on the rear end of a take-down ends of the forearm sections so as to further

greater width provided on its forward face dismount the barrel section from the rewith dowel pins 36 which take into suitable ceiver. To slidably support the take-down take-down bracket is seated. each side immediately beneath the under The forearm 38 is similar to the forearm barrel; and the narrow rectangular portion shown in my co-pending application in that of the take-down bracket, which is hollowed

out to receive this lug, has, on the forward position by the action of the spring 73 upper portions of its inner faces, ribs 52 which bears at one end against a pin or slidably mounted on the grooves 51. Rear-screw 74 extending laterally from the top 5 the take-down bracket 32 is of sufficient portion 66 of the receiver. The other end 70 50, as is fully described in my said co-pend- top lever post in position in the receiver. ing application. The numeral 53 desig- The construction of the top lever post and 10 nates a take-down lever suitably pivoted in the bearing therefor is generally similar 75 with the lug by a spring 55.

15 far described, that to assemble the receiver onto the barrel section the lever 53 is thrown down to the position shown in Fig. 5, and the bracket 32 is moved forwardly by sliding the forearm forwardly on the barrels; 20 the receiver is positioned with the hinge pin 29 engaging the bearing or recess 28; the forearm, together with the bracket, is moved rearwardly to bring the bearing surfaces 33 and 31 into engagement, and then the take-25 down lever is thrown upward y and forwardly into the position shown in Fig. 2 so as to bring it into engagement with the lugs 50 and thereby securely lock the forearm and the bracket from moving forwardly. 30 Dismountal of the receiver from the barrel section is accomplished by a forward sliding movement of the forearm after the take-down lever 53 has been thrown down.

35 for the purpose of securely holding the lever is an arm 82 suitably spaced apart to 100 40 ceive corresponding curved ribs 61 on the mers constitute parts, is located in an openders 62 which engage and bear against rear- ing and immediately above the locking bolt 110

by a locking bolt 65 mounted for sliding of the breech piece. When the right hand 115 68 is journaled. The locking bolt is pro- ated with the respective springs are plungers vided at one side, as most clearly shown in 89 and 90 which, respectively, bear at the for- 120 a projection or pawl 70 pivoted in the lower as will be clear from the drawings. The is swung outwardly to the right the locking projection 92 positioned in the path of movebolt is moved rearwardly and out of enment of the left hand arm 82 of the cockgagement with a transverse groove-72 pro- ing lever, and the right hand hammer is of the breech piece 25, whereupon the gun cated in the path of movement of the right is free to be broken. The locking bolt is hand arm of the cocking lever. The cocking normally urged into operative or locking lever has a forwardly extending portion 95

wardly of the ribs 52 the opening or slot in lever post and through a slot in the bearing width and length to permit this bracket to of the spring rests against the bearing porbe slipped into and from position on the lug tion 66. The screw or pin 74 maintains the

the bracket and carrying a plunger 54 nor- to that disclosed in my co-pending applimally urged forwardly into engagement cation. In the present instance, however, the connection between the top lever post It will be seen, with the arrangement so and the locking bolt is such that the post 67 and the opening in the portion 66 in 80 which the post is journaled may be of relatively small diameter to effect economy in weight and space in the receiver, while at the same time the post may be inserted into and be withdrawn from the bearing por- 85 tion 66. To this end the member 70 is pivoted in the lower end of the post so that it will assume the dotted line position shown in Fig. 6 when inserting or withdrawing the post. The member will be cammed out and 80 held in the full line position of Fig. 6 by an inclined rear face 75 of the notch 69 in the

locking bolt.

The cocking lever, designated generally by the numeral 80, has a body portion 95 pivoted, by means of a pin 81, in the receiver beneath the top lever post 67. Extending rearwardly and upwardly from each As disclosed in my co-pending application, side of the body portion of the cocking breech piece and receiver together against accommodate the locking bolt 65, the top the force of an explosion of a shell, the lever post and its bearing portion, and the inside faces of the side walls of the re- body portions of the hammers 83 and 84. ceiver may have arcuate slots 60 which re- The firing mechanism, of which the hamsides of the breech piece when the gun is ing of a frame-like portion 85 of the receiver closed. Further provided on the sides of extending rearwardly from the bearing porthe breech piece adjacent the rear lower tion 66. Both of these hammers are pivoted corner thereof are forwardly facing shoul- at the forward lower corner of said openwardly facing shoulders 63, one provided by means of a common pivot member or pinon the inner side of each wall of the receiver the 86. When the left hand hammer 84 is readjacent the lower end of the arcuate slots 60. leased, it is actioned by a left hand main The gun is locked in its closed position spring 87 to explode the shell in the over bore movement in the receiver beneath the por- hammer 83 is released, it is actioned by a tion 66 which forms a vertical bearing in right hand main spring 88 and causes the which the stem or post 67 of the top lever firing of the shell in the under bore. Associ-Fig. 17, with a notch 69 which receives ward ends against the hammers 84 and 83, end of the post 67 so that when the top lever left hand hammer has a laterally extending vided adjacent the bottom of the rear face provided with a similar projection 93 lo-

positioned between the side walls 30 of the gun, no force is required to push the lockreceiver adjacent their lower edges. This ing bolt out of the way, as would be the forwardly extending portion is provided case if the locking bolt extended into the with a central rib 96 having a hooked end 97 5 adapted to interlock with the rear hooked end 91 of an element here shown as being in the form of a link 98 pivoted, as at 99, to the rear end of the take-down bracket 32. This element or link is provided, ad-10 jacent its free end, with a pair of lugs 100 which are adapted to interlock with oppositely disposed lugs 101 depending from ating through a connector 111. The sears the breech piece, as shown most clearly in are pivoted above the hammers on a pin 112 Figs. 3 and 5. As previously stated, to as- and are urged by springs 113 into co-oper-15 semble the breech piece and barrel section, ating relation with sear notches 114 and 115 80 the forearm is slid forwardly of the barrels and, after the hinge pin 29 is brought into position-within the bearings 28, the forearm is moved rearwardly and secured in 20 position by a take-down lever 53. When thus moving the forearm rearwardly, the link is held upwardly so that the lugs 100 will be properly engaged with the lugs 101. This arrangement is generally similar to that 25 disclosed in my said co-pending application. When the gun is closed, as shown in Fig. 3, the cocking lever link 98 and the forwardly extending portion 95 of the cocking lever close the bottom of the space between the nector is urged forwardly towards the ham-30 side walls 30 of the receiver and have their mers by a spring 119 about a plunger 120, 95 hooked ends in position for engagement with the lower end of which is seated on a shoulone another when the gun is broken. The der 121 on the connector; the upper end of locking bolt 65, under the influence of the the plunger being slidably mounted in an top lever spring 73, is normally urged into opening 122 in the upper wall of the frame-35 advanced or operative position with its front like portion 85 of the receiver. The conend engaging in the groove 72 of the breech nector has a forwardly extending portion piece, thereby securely holding the receiver 123 adapted to be brought into selective enand breech piece against pivoting relative gagement with the outer curved surfaces of to one another. To break the gun, the top the hammers when the latter are in cocked lever is manually swung to the right, turn-condition. The top edge of this portion 123 105 ing the top lever post and the pawl 70 constitutes a shoulder or abutment adapted carried thereby in a direction to force the by turning the connector on a longitudinal locking bolt rearwardly out of engagement axis to be selectively positioned beneath and with the breech piece. In the operation of to engage projections 124 and 125 on the rear breaking the gun, the cocking lever, owing ends of the respective sears 108 and 109, 110 to its engagement with the link 98, is caused but just forwardly of the fingers 118. The to swing on its pivot 81 so that the arms 82 connector is further provided with lateralswing backwardly and downwardly, and, in ly extending lugs 126 adapted to be respecso doing, engage the lugs 92 and 93 on the tively engaged with the lugs 124 and 125 hammers, if the latter are uncocked, thereby of the respective sears, depending on the 115 camming these hammers into cocked posi- position of the connector. Extending latertion. For the purpose of causing the cock- ally from the connector adjacent its lower ing lever to maintain the locking bolt in end is a fin 127 engaging in a notch 128 its rearward or inoperative position when in the shifter 129 mounted for sliding move-55 the gun is in broken condition, as shown in Fig. 2, an undercut shoulder 105 is provided on the rear end of the rib 94 on the cocking lever, and the forward end of the locking adapted to take in under the shoulder 105. to move the shifter from one position to 125

path of swinging movement of the breech piece, requiring that the latter cam the 70

locking bolt back.

Referring now, more particularly, to the firing mechanism, the respective hammers 83 and 84 are held in cocked condition by sears 108 and 109, which are actuated in the de- 75 sired sequence by a single trigger 110 operon the outer curved ends of the respective

hammers 83 and 84.

The trigger 110 is pivoted on a pin 116 and in a slot in the bottom wall of the frame-like portion 85 of the receiver. Ex- 85 tending laterally from the trigger is a short stud 117 having a recess (see Fig. 21) which receives the lower round end of the connector 111. The upper end of the connector is positioned between and guided by rear- 90 wardly extending fingers 118 on the sears so that the upper end of the connector is held against lateral movement. The conment in the slot in the bottom wall of the 120. frame-like portion 85 alongside of the trigger. This shifter has a knurled or roughened surface 130 against which the finger bolt has an inclined surface or shoulder 106 or thumb may be pressed when it is desired The locking bolt is normally urged forward-another. In the present instance, the ly by the spring 73 so that the shoulders 106 shifter is very simply and effectively held and 105 will be held in engagement. This in position by a spring 132, one end of which arrangement is very simple and effective, extends into a recess 133 in the receiver and is of advantage in that, in closing the and the other end of which is turned over 130

to engage a longitudinally curved surface the projection 124 of the left hand sear, 5 the surface is similarly inclined so that the relatively few parts which may be cheaply 70 in position. The spring serves to hold the connector may be very easily and quickly retain the shifter in each of its extreme or ing the shifter from one position to the other.

10 operative positions. 15 moved to its forward extreme position, in the bearing portion 66 of the receiver, 80 20 jection 124 of the left hand sear. When cut groove in which is slidably mounted a 85 25 cartridge in the over bore will be fired. 120, permitting this end of the plunger to 90 30 126 engages the rear end of the projection tion of the safety device is above the 95 35 connector, under the influence of the spring gun is not fully closed, the trigger is pro- 100 so that the right hand lug 126 will be be-permit the locking bolt to be moved to reright hand hammer and firing of the shell is provided with a plunger 147 normally 110 that the connector will be turned to a position whereby injury or jamming of the trigger tion where the projection 123 engages the is prevented. right hand hammer and is positioned be- For illustrative purposes, the gun is shown neath the lug 125 of the right hand sear, as being provided with an inertia block or as shown in Figs. 21 and 22. In the latter member 145 which operates to prevent what figure, it will be seen that the left hand is known as "involuntary pull" or "doubl-lug 126 is not in position beneath the pro- ing." This block is similar in construction jection 124 of the left hand sear. When to the block shown in my co-pending applithe trigger is pulled, the right hand hammer cation and need not be here described in will be released, and then, when the trigger detail.

134 on the shifter. This surface 134 is as shown in Fig. 23. It will be noted that transversely inclined, as shown in Fig. 21, the arrangement for effecting selective firand that end of the spring which engages ing is extremely simple. It comprises but surface 134 tends to cam and hold the spring manufactured and readily assembled. The shifter in place on the receiver and also to set to fire either barrel first by merely slid-

The hammers 83 and 84, respectively, 75 The operation of the firing mechanism so operate through firing pins 140 and 141 to far described is briefly as follows. Assum- fire the shells in the under and over bores, ing that it is desired to fire the shell in respectively. These firing pins are mounted the over bore first, the shifter 129 will be for sliding movement in suitable apertures thereby turning the connector about a verti- the post 67 being cut away as at 142 to cal axis to a position where the forwardly accommodate the pins. On the upper surextending portion 123 engages the left hand face of the frame portion 85 of the receiver hammer and is positioned beneath the pro- and behind the top post lever is an underthe trigger is pulled the first time, the con-safety device or piece 143 having, on its nector will be raised, causing the projection under surface, a recess 144 which, when 123 to lift the left hand sear, whereupon the the safety device is in "off" position, is in left hand hammer will be released and the alinement with the upper end of the plunger When the left hand hammer is thus re- project into the recess when the trigger is leased, it moves out of engagement with pulled. To make the gun safe, the safety the projection 123, and the connector will device is moved rearwardly into the safe swing forwardly until the right hand lug or "on" position, where the unrecessed por-125 on the right hand sear (see Fig. 3) plunger so that the plunger, together with and the parts will retain this position as the connector, cannot be raised when it is long as the trigger is held in pulled con- attempted to pull the trigger. In order to dition. When the trigger is released, the prevent pulling of the trigger when the 119, will move downwardly, whereupon the vided with a forwardly extending finger right hand lug 126 will be disengaged 146 under which the rear end of the lockfrom the rear end of the projection 125, ing bolt lies when the latter is in retracted permitting the connector to swing forwardly position, as shown in Fig. 2. In order to neath the projection 125 of the right hand tracted or inoperative position without insear, as shown in Fig. 4. When the trigger jury to the parts, in the event that the is pulled a second time, the right hand sear trigger should stick or be held, for any will be raised to permit release of the reason, in pulled condition, the locking box in the under bore. Both barrels having urged rearwardly by a spring 148. This been fired, the gun will be broken for re-plunger, as shown in Fig. 3, is in alinement loading, and the hammers, when they are with the finger 146 when the trigger is in swung back into cocked position by the pulled position and the locking bolt is in cocking lever, will cam the connector to the operative position. When the locking bolt 115 position shown in Fig. 2. If it is desired is retracted to permit breaking of the gun, to fire the under barrel first, the shifter the plunger engages the trigger and is will be moved to its rearmost position so pushed forwardly into the locking bolt,

is released, the connector will swing for-ward to bring the left hand lug beneath and retracting, without ejecting, unfired 130

shells from the bores of the breech piece will now be described. Separate ejecting as these mechanisms are similar in construc-5 tion and operation, a description of one is il- left hand hammer 84 which acts through a 70 "over" barrel will here be described and the 10 nism for the "under" barrel will be desig- rear end, an offset 164 against which the 75 15 nism associated with that bore will retract on the left hand hammer when this ham- 80 20 eject or throw the spent shell out of the 156. The arrangement is such that, during 85 25 front of the head or rim of a shell positioned this purpose, the surface 168, which en-30 ally extending lug 154 adapted to be en-spring will swing beneath the shoulder 166, 95 35 gage the lug 154. The rod 152 and the corpered, as indicated by the numeral 169. lug 154, by a spring 157 which may be generally of U form with one end 158 upturned to seat in a recess in the side wall 30 of the receiver. The other end of the spring engages the ejecting lever rearwardly of its pivotal point. Pivotal movement of the the extractors forwardly. lever, under the influence of the spring 157, 55 is limited by a shoulder 159 on the receiver, as shown most clearly in Figs. 4 and 5. Pro- it being understood that the corresponding vided on the side and adjacent the forward mechanism for the under barrel will operlower corner of the breech piece is a lug ate in a like manner. When the gun is in or cam 160 which, during the operation of the broken condition shown in Fig. 2, the 125 closing the gun, engages an extension 161 of actuator or ejecting lever is in operated conthe lever, resulting in the lever being turned dition with its arm 155 holding the exfrom the position shown in Fig. 2, which tractor retracted. During the operation of may be termed the "operated" position, to closing the gun, the lug 160 on the barrel the position show in Fig. 3, which may be section will engage the extension 161 of the 130 termed the "cocked" or "operative" position. ejecting lever, thereby turning this lever

In the latter position, the spring 157 is under increased compression. Release of the ejectmechanism is provided for each barrel, but, ing lever 156 from cocked position is controlled by the cocking movement of the lustrative of the other. For convenience, catch 162, here shown as being in the form the ejecting mechanism associated with the of a rod formed of spring material. The catch 162 is slidably mounted in an opencorresponding parts of the ejecting mecha- ing 163 in the receiver and has, adjacent its nated by similar reference numerals primed. left hand arm 82 of the cocking lever en-Each of these mechanisms is so arranged gages when the gun is closed. The extreme that, when the gun is broken while an un- rear end of the catch is adapted to be enfired shell is in a bore, the ejecting mecha-gaged by a forwardly extending portion 165 (but not eject) the unfired shell to a posi-mer is in uncocked position. The forward tion where it may be gripped by the fingers. end of the catch is adapted to engage a If the gun is broken after a shell has been shoulder 166 at the lower end of a curved fired, the ejecting mechanism will entirely surface 167 on the rear end of the lever bore. Referring to the drawings, 150 desig- the breaking action of the gun, and when the nates an extractor associated with the over catch is free to move rearwardly, the lever bore, this extractor being in the form of a 156 will cam the catch rearwardly and out plate having a lip 151 adapted to engage in of engagement with the shoulder 166. To in the over barrel. It is carried by a rod gages the shoulder 166, is bevelled or inor stem 152 slidably mounted in a groove clined, as shown in Figs. 3 and 15. To flex 153 in the left hand side of the breech piece, the spring, so that when the lever has been the forward end of the stem having a later- brought to cocked position the free end of the gaged by an actuator when the gun is as shown in Fig. 3, the curved surface 167 broken. In the present instance, the actu- is transversely bevelled or inclined, as shown ator is in the form of a lever 156 having a most clearly in Fig. 14, and the forward forwardly extending arm 155 adapted to en- end of the catch is similarly inclined or taresponding rod 152' on the right hand side. For the purpose of permitting movement of of the breech piece are both held in place by the catch relative to the lever 156, when the a single retaining pin 149 which, as shown latter is not in cocked position, and thus in Fig. 19, is diagonally disposed, with one allow for desired tolerances in manufacture end engaging the upper surface of the rod and prevent jamming of the hammer against 152' and the other end engaging the under the catch in the event that the left hand surface of the rod 152; thus, the rods are hammer were released, the surface 167 is very simply and cheaply held in place. The curved eccentrically to the pivotal point of lever 156 is pivoted on the inside and at the the lever, its lowest end 166 being farthest 110 forward end of the left hand wall 30 of the away from the pivotal point. The forward receiver. This lever is normally urged, in end of the catch is suitably guided by studs a direction to engage the arm 155 with the 170 and 171 extending from the inside face of the side wall 30 of the receiver. Adjacent the forward upper corner of the side 115 wall of the receiver is a camming surface 172 adapted to engage the lug 154 during the operation of closing the gun so as to move The operation of the ejecting mechanism 120

for the over barrel will now be described.

from operated position to the cocked posi- I claim as my invention: tion shown in Fig. 3. The left hand arm 1. In a firearm of the over and under type, 82 of the cocking lever will engage the off- a pair of barrels positioned one over the set 164 of the catch and move the catch 5 forwardly so that the rear end of the catch will be out of the path of movement of the inwardly between the barrels to fit the conportion 165 of the hammer, thus permitting cave surfaces therebetween, said forearm bethe hammer to be released to uncocked posi- ing in two longitudinally extending sections tion upon pulling the trigger. Assuming and being slidable with respect to said bar-10 now that the gun is broken without first rels, and means for securing the sections to- 75 pulling the trigger to release the left hand gether. of the catch, permitting the ejector lever other, a forearm having a groove rounded 15 to cam the catch rearwardly out of the way at its bottom portion to closely receive the 80 at the start of the breaking movement and, under barrel and having its sides, adjacent during the entire breaking movement, the their upper ends, curved inwardly and then extension 161 on the ejecting lever will be in engagement with the lug 160 so that the 20 ejecting lever will slowly swing from operative to operated position, thereby slowly retracting the extractor, which means that two sections and being slidable with respect the shell in the over bore will be slightly retracted but not entirely ejected. Assuming now that, after the gun has been 3. In a firearm of the over and under type, 90 in the over barrel, the hammer will be in other, a forearm fitting about the under baring the catch in forward position with its and being slidable with respect to said bar-30 forward end beneath the shoulder 166 of the ejecting lever. Upon breaking the gun, the catch will hold the ejecting lever in its ing the sections against the barrel with the cocked position for the major portion of desired pressure. the breaking operation and, just before this 35 operation is completed, the cocking lever a pair of barrels positioned one over the 100 will have thrown the left hand hammer other and having a slot therebetween, a foretoward its cocked position to such an extent arm fitting the under barrel and the lower that the portion 165 of the hammer will be portion of the over barrel and being slidable withdrawn from behind the catch with the with respect to said barrels, said forearm result that the actuator will cam the catch being divided in two longitudinal sections, 105 rearwardly, which means that the actuator and a bolt extending through said sections is released and, under the force of the and said slot. 45 operated position, thereby imparting a other, a slidable bearing part on the under 110 wardly, the forward end of the catch will of said forearm and having fins embedded in 115 take in behind the rear end of the lever owing to the bevelled faces or inclined sursurface 167 is curved eccentrically with rereceiver were removed from the barrel section and the left hand hammer was then released to uncocked position while the ejecting lever was in operated position, as shown in Fig. 4.

other, a forearm fitting the under barrel and a portion of the over barrel and curved 70

hammer, the arm 82 of the cocking lever 2. In a firearm of the over and under type, will be withdrawn from the offset portion a pair of barrels positioned one over the outwardly to fill the concave spaces between the barrels and closely fit the under portion of the over barrel, said forearm being di- 85 vided on its longitudinal medial line into to said barrels, and means for securing said

closed, the trigger is pulled to fire the shell a pair of barrels positioned one over the uncocked position with its portion 165 hold- rel and the lower portion of the over barrel rels, said forearm being longitudinally di- 95 vided into two sections, and means for draw-

sections together and against the barrels.

4. In a firearm of the over and under type,

spring 157, this lever will be thrown with a 5. In a firearm of the over and under type, quick or snap movement from operative to a pair of barrels positioned one over the sharp or fast movement to the extractor so side of the under barrel, a forearm fitting that the fired shell in the over barrel is the under barrel and a portion of the over completely ejected. When the actuator or barrel and divided longitudinally intoutwo ejecting lever 156 thus cams the catch rear-sections, a union cap on the forward end said sections for holding the same together, and a screw passing through said union cap faces 167 and 169. As previously stated, the and between said sections and threaded into said bearing part.

spect to the pivotal point of the ejecting 6. In a firearm of the over and under type, 120 lever so as to allow for tolerances in manu- a pair of barrels positioned one over the facturing the parts. This eccentric curva- other and having a slot therebetween, a slidture is also of advantage in that it will pre- able bearing part on the under barrel, a vent jamming of the hammer against the forearm fitting the under barrel and a porcatch as, for instance, in the event that the tion of the over barrel and curved inwardly 125 between the barrels to closely fit the concave surfaces therebetween, said forearm being in two longitudinally extending sections, a bolt passing through said sections and said slot and holding the sections together and 130

against the barrels, a union cap on the forward ends of said sections, and a screw extending through said union cap and between said sections and screwed into said part.

7. In a firearm of the over and under type, a barrel section having over and under barrels, a receiver, means for demountably pivoting said section to said receiver and including a bearing part slidably mounted on 10 the under barrel, means for maintaining said receiver and including a pair of hammers, a 75 15 bearing part and fitting the under barrel sears and for turning about a longitudinal 80 20 for removably securing the sections together as to set the same to operate on the sears in 85 forearm on the barrels.

a breech piece, a receiver pivotally connected type, a barrel section having a breech piece 25 thereto, a hammer pivoted on said receiver, and a pair of barrels connected thereto one 90 a reciprocable locking bolt carried by said over the other, a receiver for said breech receiver and adapted for locking engagement piece, and firing mechanism carried by said with said breech piece when the gun is receiver and including a pair of hammers, a closed, means for reciprocating said bolt, sear for each hammer, a single trigger, a 30 a pivoted cocking lever for cocking said connector having one end supported on said 95 hammer when the gun is broken, and inter-trigger and mounted for turning movement, engaging means on the forward end of said means on said sears for guiding the other cocking lever holds the locking bolt in inoperative position when the gun is open.

9. In a firearm of the over and under type, a breech piece, a receiver pivotally connected thereto, a hammer pivoted in said receiver, a reciprocable locking bolt carried by said receiver and adapted for locking engagement with said breech piece when the gun is closed, means for reciprocating said bolt, means for normally urging the same into locking position, and a pivoted cocking lever for cock-45 ing said hammer when the gun is broken, said locking bolt having at its forward end a forwardly and downwardly inclined surface, said cocking lever having an undercut shoulder adapted to engage said surface whereby to hold the locking bolt in inoperative position when the gun is open.

10. In a firearm of the over and under type, a barrel section having a breech piece and a pair of barrels connected thereto one over the other, a receiver for said breech for turning said connector so as to set the 120 receiver and including a pair of hammers, upon repeated pulls of the trigger, a longituto said trigger and arranged to successively actuate said sears on repeated pulls of the trigger, a shifter associated with said con-trigger into unpulled position. nector for selectively setting the same rela- 14. In a firearm of the over and under tive to said sears so that the latter will be type, a barel section having a breech piece operated in the desired selective order on reand a pair of barrels connected thereto one

peated pulls of the trigger, and a spring acting on said connector for holding the same in operative position and for urging said

trigger into unpulled position.

11. In a firearm of the over and under 70 type, a barrel section having a breech piece and a pair of barrels connected thereto one over the other, a receiver for said breech piece, and firing mechanism carried by said slidable part on said barrel section in opera- sear for each hammer, a single trigger, a tive and inoperative positions, means for vertically extending connector supported at locking said slidable part in operative posi- its lower end on said trigger for swinging tion, a forearm housing, at least in part, said movement relative to the trigger towards the and a portion of the over barrel, said fore- axis, said connector being arranged, on rearm being divided into longitudinally ex-peated pulls of the trigger, to successively tending sections to permit assembly and dis- actuate said sears, and means for turning sembly thereof on said barrels, and means said connector about its longitudinal axis so and permitting of sliding movement of the selective order on repeated pulls of the trig-

8. In a firearm of the over and under type, 12. In a firearm of the over and under bolt and said cocking lever whereby the end of said connector, said connector being arranged to successively actuate said sears on repeated pulls of the trigger, means for 100 turning said connector so as to set the same to actuate said sears in selective order upon repeated pulls of the trigger, and a spring holding said connector on said trigger and normally urging said trigger into unpulled 105

position.

13. In a firearm of the over and under type, a barrel section having a breech piece and a pair of barrels connected thereto one over the other, a receiver for said breech 110 piece, and firing mechanism carried by said receiver and including a pair of hammers, a sear for each hammer, a single trigger, and a connector having one end supported on said trigger and mounted for turning move- 115 ment, means on said sears for guiding the other end of said connector, said connector being arranged to successively actuate said sears on repeated pulls of the trigger, means piece, and firing mechanism carried by said same to actuate said sears in selective order a sear for each hammer, a single trigger, a dinally movable plunger having one end enconnector carried by and movable relative gaging said connector between its ends, and a spring about said plunger for maintaining 125 said connector in position and urging said

5 connector supportd on said trigger and ar-receiver and including a pair of hammers, a 70 10 about said plunger and urging the same in a shifter mounted in a slot in said receiver 75 direction to maintain said connector in engagement with said trigger and normally and a safety device adapted, in one position, 15 to cooperate with said plunger to prevent pulling of the trigger and, in another position, permiting movement of said plunger when pressure is applied to the trigger.

15. In a firearm of the over and under 20 type, a barrel section having a breech piece and a pair of barrels connected thereto one over the other, a receiver for said breech piece, and firing mechanism carried by said receiver and including a pair of hammers, a receiver and including a pair of hammers, sear for each hammer, a single trigger, and 25 a sear for each hammer, a single trigger, a a connector mounted on said trigger for 90 connector having one end supported on said turning movement from one position where, trigger and mounted for turning movement, upon repeated pulls of the trigger, one sear means on said sears for guiding the other and then the other sear will be actuated, and end of said connector, said connector being to another position where the sears, upon ³⁰ arranged to successively actuate said sears repeated pulls of the triger, will be actuated ⁹⁵ on repeated pulls of the trigger, means for in the reverse order, said connector, when turning said connector so as to actuate said both of said hammers are cocked, being in sears in selective order upon repeated pulls operative relation to the sear to be first of the trigger, a longitudinally movable actuated and being held out of operative 35 plunger having one end engaging said con-relation relative to the other sear by the 100 nector between its ends, a spring about said hammer associated with the sear to be operplunger and urging the same in a direction to ated first. to said trigger and said sears and normally type, a barrel section having a breech piece 40 urging said trigger into unpulled position, and a pair of barrels connected thereto one 105 45 plunger when pressure is applied to the connector mounted on said trigger for turn- 110 trigger.

over the other, a receiver for said breech repeated pulls of the trigger, will be actu- 115 arranged to successively actuate said sears tive relation relative to the other sear by the 120 for turning movement about its longitudinal sears. axis, said connector having a laterally ex- 20. In a firearm of the over and under 125 said fin engages.

over the other, a receiver for said breech type, a barrel section having a breech piece piece, and firing mechanism carried by said and a pair of barrels connected thereto one receiver and including a pair of hammers, a over the other, a receiver for said breech sear for each hammer, a single trigger, a piece, and firing mechanism carried by said ranged to successively actuate said sears on sear for each hammer, a single trigger, a repeated pulls of the trigger, a longitudinal- connector mounted for turning movement and ly movable plunger having one end engaging arranged to successively actuate said sears said connector between its ends, a spring on repeated pulls of the trigger, a slidable and cooperating with said connector to turn the same for selective operation on said urging said trigger into unpulled position, sears, said shifter having a longitudinallycurved transversely-inclined surface, and a spring having one end fixed to said receiver 80 and having the other end inclined correspondingly to and engaging said surface.

18. In a firearm of the over and under type, a barrel section having a breech piece and a pair of barrels connected thereto one 85 over the other, a receiver for said breech piece, and firing mechanism carried by said

maintain said connector in proper relation 19. In a firearm of the over and under and a safety device adapted, in one posi- over the other, a receiver for said breech tion, to cooperate with said plunger to pre-piece, and firing mechanism carried by said vent pulling of the trigger and, in another receiver and including a pair of hammers, a position, permitting movement of said sear for each hammer, a single trigger, a ing movement from one position where, 16. In a firearm of the over and under upon repeated pulls of the trigger, one sear type, a barrel section having a breech piece and then the other sear will be actuated and and a pair of barrels connected thereto one to another position where the sears, upon piece, and firing mechanism carried by said ated in the reverse order, said connector, receiver and including a pair of hammers, a when both of said hammers are cocked, besear for each hammer, a single trigger, a ing in operative relation to the sear to be connector associated with said trigger and first actuated and being held out of operaon repeated pulls of the trigger, said con- hammer associated with the sear to be opernector being supported on said trigger for ated first, and a spring normally urging swinging movement about its lower end and said connector into operative relation to said

tending fin and being movable to position type, a barrel section having a breech piece the same to actuate said sears in selective and a pair of barrels connected thereto one order, and a shifter having a notch in which over the other, a receiver for said breech piece, and firing mechanism carried by said 17. In a firearm of the over and under receiver and including a pair of hammers, 180

a sear for each hammer, a single trigger, and a connector mounted on said trigger for movement from one position where, upon repeated pulls of the tigger, one sear and 5 then the other sear will be actuated and to another position where the sears, upon repeated pulls of the trigger, will be actuated in the reverse order, said connector, when both of said hammers are cocked, being in 10 operative relation to the sear to be first piece, and firing mechanism carried by said associated with the sear to be operated first, each of said sears having means for main-15 taining said connector out of operative relation therewith when the hammer, which has engaged said connector, is fired and while the trigger is held in pulled position.

21. In a firearm of the over and under 20 type, a barrel section having a breech piece and a pair of barrels connected thereto one over the other, a receiver for said breech piece, and firing mechanism carried by said receiver and including a pair of hammers, a sear for each hammer, a single trigger, a connector mounted for turning movement on said trigger, means for moving said connector into one position where it will actuate first one sear and then the other, and to 30 another position where the connector will having a sear engaging portion adapted, and a spring holding said connector in when the connector is turned, to be moved place. 35 out of relation to one sear and into relahaving an individual sear engaging portion for each sear, said first portion being arranged to engage the hammer, when cocked, associated with the sear with which said portion is set to cooperate whereby the individual sear engaging portion adapted to operative relation thereto.

50 receiver and including a pair of hammers, said connector having its upper end between actuate the sears in reverse order upon repeated pulls of the trigger, said connector having a forwardly extending portion adapted, when the connector is turned, to be moved out of relation to one sear and into relation with another sear, said connector also having a pair of laterally extending

arranged to engage the hammer, when 65 cocked, associated with the sear with which said portion is set to cooperate whereby the lug adapted to cooperate with the other sear is held out of operative relation thereto.

23. In a firearm of the over and under 70 type, a barrel section having a breech piece and a pair of barrels connected thereto one over the other, a receiver for said breech actuated and being held out of operative receiver and including a pair of hammers, a 75 relation to the other sear by the hammer sear for each hammer, a single trigger, a connector mounted for turning movement on said trigger, means on said sears for guiding the upper end of said connector, means for turning said connector into one 80 position where it will actuate one sear first and then the other, and to another position where the connector will actuate the sears in reverse order upon repeated pulls of the trigger, said connector having a sear en- 85 gaging portion adapted, when the connector is turned, to be moved out of relation to one sear and into relation with another sear, said connector also having an individual sear engaging portion for each sear, said 90 first portion being arranged to engage the hammer, when cocked, associated with the sear with which said portion is set to cooperate whereby the individual sear engaging actuate the sears in reverse order upon re- portion adapted to cooperate with the other 95 peated pulls of the trigger, said connector sear is held out of operative relation thereto,

24. In a firearm of the over and under tion with another sear, said connector also type, a barrel section having a breech piece 100 and a pair of barrels connected thereto one over the other, a receiver for said breech piece, and firing mechanism carried by said receiver and including a pair of hammers, a sear for each hammer, a single trigger, a con- 105 nector mounted for turning movement on said cooperate with the other sear is held out of trigger, means for moving said connector into one position where it will actuate first 22. In a firearm of the over and under one sear and then the other, and to another type, a barrel section having a breech piece position where the connector will actuate 110 and a pair of barrels connected thereto one the sears in reverse order upon repeated over the other, a receiver for said breech pulls of the trigger, each of said sears having piece, and firing mechanism carried by said a finger and a projection forwardly thereof, a sear for each hammer, a single trigger, a and guided by said fingers and provided 115 connector mounted for turning movement with a forwardly extending portion adapton said trigger, means for moving said con- ed to be selectively positioned beneath the nector into one position where it will actuate projections on said sears, said connector also first one sear and then the other, and to having a laterally extending lug at each side another position where the connector will adapted to cooperate with the respective 120 sears.

25. In a firearm of the over and under type, a receiver having a top lever post bearing, a locking bolt beneath said bearing, a top lever post in said bearing, and a part connected to said post and engaging said bolt, said part normally projecting laterally lugs, one for each sear, said portion being beyond said post and arranged to be in aline-

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ment with said post when inserting or with- cluding a hammer, means for cocking the es

ing.

5 type, a receiver having a top lever post ably mounted on said receiver adapted to 10 normally extending laterally beyond said adapted to engage and hold said actuator in

15 type, a receiver having a top lever post breaking operation of the firearm, said hamsurface, a top lever post in said bearing, the hammer is in cocked condition. and a pivoted member on the lower end of 32. In a firearm, a receiver, a barrel sec-20 said post adapted to be cammed outwardly tion pivoted thereto, firing mechanism on into said notch by said surface when the said receiver including a hammer, an ex- 85

type, a barrel section having a breech piece, ally mounted on said receiver and adapted 25 a pair of barrels connected thereto one over to move said extractor outwardly during the other, a receiver pivoted to said barrel the operation of breaking the firearm, means 90 section, an extractor for each barrel and carried by said receiver and controlled by each having a rod, said rods being supported said hammer for controlling the ejecting for longitudinal movement in the respective movement of said actuator lever, and a fixed 30 opposite sides of the breech piece, and a abutment on said barrel section adapted to

type, a barrel section having a breech piece, arm is closed and in any condition of the a pair of barrels connected thereto one over firing mechanism. 35 the other, a receiver pivoted to said barrel 33. In a firearm, a receiver, a barel secand a retaining pin passing diagonally be-ably mounted on the receiver and adapted rod.

pivoted thereto, firing mechanism including directly engage said actuator during each 110 a hammer, means for cocking the hammer and every operation of closing the firearm, when the firearm is broken, an extractor as- a spring normally urging the actuator into sociated with the barrel for withdrawing operated position, and means controlled by 50 shells therefrom, an actuator movably said hammer for holding said actuator in mounted on said receiver adapted to retract cocked position during the major portion 116 said extractor during the operation of break- of the breaking movement of the firearm ing the firearm, a spring normally urging and to then release the same. the actuator in a direction to retract said 34. In a firearm, a receiver, a barrel secextractor, and means adapted to hold said tion pivoted thereto, a hammer, an extractor actuator in operative position, said hammer associated with the barrel for withdrawing being arranged to retain said means in holding position when the hammer is uncocked and during the major portion of the break-60 ing operation of the firearm, said hammer being free of said means when the former is in cocked position.

31. In a firearm, a receiver, a barrel sec-

drawing the post into and from said bear- hammer when the firearm is broken, an extractor associated with the barrel for with-26. In a firearm of the over and under drawing shells therefrom, an actuator movbearing, a locking bolt beneath said bearing, retract said extractor during the operation 70 a top lever post in said bearing, and a pivot- of breaking the firearm, a spring normally ed member on the lower end of said post and urging the actuator in a direction to retract cooperating with said bolt, said member said extractor, and a member on the receiver post and adapted to be in alinement with operative position, said hammer being ar- 75 said post when the latter is inserted into or ranged to engage and retain said member withdrawn from said bearing. in holding position when the hammer is un-27. In a firearm of the over and under cocked and during the major portion of the bearing, a locking bolt beneath said bearing mer being free of said member and said 80 and having a notch provided with a cam member being free of said actuator when

post is inserted in said bearing. tractor on said barrel section for withdraw-28. In a firearm of the over and under ing shells therefrom, an actuator lever pivotsingle pin for retaining said rods in place. directly engage said lever for moving the 98 29. In a firearm of the over and under same to operative position when the fire-

section, an extractor for each barrel and tion pivoted thereto, firing mechanism on 100 each having a rod, said rods being sup- said receiver including a hammer, an exported for longitudinal movement in the re-tractor associated with the barrel for withspective opposite sides of the breech piece, drawing shells therefrom, an actuator movtween said barrels and having one end en- to retract said extractor during the opera- 105 gaging the upper surface of one rod and the tion of breaking the firearm, a cam on said other end the under surface of the other barrel section for moving said actuator into cocked or operative position, said cam being 30. In a firearm, a receiver, a barrel section fixed to said barrel section and adapted to

shells therefrom, an actuator pivotally mounted on said receiver and adapted to move said extractor during the operation of breaking the firearm, means on the barrel section for moving said actuator into cocked position when the firearm is closed, a catch carried by said receiver and adapted to ention pivoted thereto, firing mechanism in- gage and hold said actuator in cocked posi-

tion, said hammer having a portion arranged to retain said catch in holding position with respect to said actuator when the hammer is not cocked.

5 35. In a firearm, a receiver, a barrel section pivoted thereto, firing mechanism on said receiver including a hammer, a longitudinally movable extractor associated with the barrel for withdrawing shells therefrom, 10 an ejecting lever pivoted on said receiver and adapted to actuate said extractor, a spring normally urging said lever in a di- to retain said catch in holding position with rection to engage the same with said ex- respect to said actuator when the hammer is tractor, means on the barrel section for turn- not cocked, said actuator being arranged to 15 ing said lever into cocked position and to move said catch from holding position. compress the spring when the firearm is 39. In a firearm, a receiver, a barrel secclosed, a longitudinally movable catch carried by said receiver and adapted to hold said lever in cocked position, and a portion 20 on said hammer for controlling the movement of said catch.

36. In a firearm, a receiver, a barrel secof the firearm, said hammer having a por- be thus moved. ranged to control the disengagement thereof from said actuator when the firearm is broken, said means for cocking said hammer being in engagement with said actuator holdthe firing movement of the hammer.

tion pivoted thereto, a hammer, a lever for engage the same with said extractor, means said actuator into cocked position when the position. firearm is closed, and a catch carried by said actuator in cocked position, said hammer having a portion arranged to retain said catch in holding position with respect to said actuator when the hammer is not cocked, said cocking lever having a portion engaging said catch when the firearm is closed to retain the same out of the path of firing movement of the hammer.

tion pivoted thereto, a hammer, an extractor associated with the barrel for withdrawing shells therefrom, an actuator pivotally mounted on said receiver and adapted to move said extractor during the operation of 70 breaking the firearm, means on the barrel section for moving said actuator into cocked position when the firearm is closed, a catch carried by said receiver and adapted to engage and hold said actuator in cocked posi- 75 tion, said hammer having a portion arranged

tion pivoted thereto, firing mechanism on said receiver including a hammer, a longitudinally movable extractor associated with the barrel for withdrawing shells therefrom, 85 an ejecting lever pivoted on said receiver and adapted to actuate said extractor, a tion pivoted thereto, firing mechanism in- spring normally urging said lever in a dicluding a hammer, means for cocking the rection to engage the same with said ex-25 hammer when the firearm is broken, an ex- tractor, means on the barrel section for turn- 90 tractor associated with the barrel for with- ing said lever into cocked position and to drawing shells therefrom, an actuator mov- compress the spring when the firearm is ably mounted on said receiver and adapted closed, a longitudinally movable catch carto retract said extractor during the opera- ried by said receiver and adapted to hold tion of breaking the firearm, a spring nor- said lever in cocked position, and a portion 95 mally urging the actuator in a direction to on said hammer for controlling the moveretract said extractor, and means adapted to ment of said catch, said catch having a surhold said actuator in operative position face adapted to engage said lever and so inwhen the hammer is uncocked and during clined that the lever will cam the catch out 35 the major portion of the breaking operation of holding position when the catch is free to 100

tion cooperating with said means and ar- 40. In a firearm, a receiver, a barrel section pivoted thereto, firing mechanism on said receiver including a hammer, a longitudinally movable extractor associated with 105 the barrel section for withdrawing shells ing means when the firearm is closed to re- therefrom, an ejecting lever pivoted on said tain said holding means out of the path of receiver and adapted to actuate said extractor when the firearm is broken, a spring 37. In a firearm, a receiver, a barrel sec- normally urging said lever in a direction to 110. cocking the hammer when the firearm is for turning said lever into cocked position broken, an extractor associated with the and to compress the spring when the firebarrel section for withdrawing shells there- arm is closed, and a longitudinally movable from, an actuator pivotally mounted on said catch carried by said receiver and adapted 115 receiver and adapted to move said extractor to hold said lever in cocked position, said during the operation of breaking the fire- lever being arranged to cam said catch latarm, means on the barrel section for moving erally when the lever is moved from cocked

41. In a firearm, a receiver, a barrel sec- 120 said receiver and adapted to engage and hold tion pivoted thereto, firing mechanism on said receiver including a hammer, an extractor associated with the barrel section for withdrawing shells therefrom, an ejecting lever pivoted on said receiver and adapted 125 to actuate said extractor and having a surface terminating in a shoulder, a spring normally urging said lever in a direction to engage the same with said extractor, means 38. In a firearm, a receiver, a barrel sec- for turning said lever into cocked position 130

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and to compress the spring when the firearm laterally inclined in a direction to spring is closed, and a longitudinally movable said catch laterally when the catch is respring carried by the receiver and having leased from said shoulder, and said surface 5 hold said lever in cocked position, said sur- the pivotal point of said lever. ing laterally inclined in a direction to spring said catch laterally when the catch is released from said shoulder.

10 42. In a firearm, a receiver, a barrel section for withdrawing shells therefrom, tractor associated with the barrel section for during the operation of breaking the fire-15 lever pivoted on said receiver and adapted said actuator lever into cocked position when 20 turning said lever into cocked position and tion arranged to retain said rod in holding adapted to engage said shoulder to hold of said lever when the hammer is cocked. 25 said lever in cocked position, said surface and the adjacent end of said catch being

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one end adapted to engage said shoulder to being eccentrically curved with respect to 30

face and the adjacent end of said catch be- 43. In a firearm, a receiver, a barrel section pivoted thereto, a hammer, a lever for cocking the hammer when the firearm is broken; an extractor associated with the bar- 35 tion pivoted thereto, firing mechanism on an actuator lever pivotally mounted on said said receiver including a hammer, an ex- receiver and adapted to move said extractor withdrawing shells therefrom, an ejecting arm, means on the barrel section for moving 40 to actuate said extractor and having a sur- the firearm is closed, and a longitudinally face terminating in a shoulder, a spring nor- movable rod carried by said receiver and mally urging said lever in a direction to en- adapted to engage and hold said lever in gage the same with said extractor, means for cocked position, said hammer having a por- 45 to compress the spring when the firearm is position with respect to said lever when closed, and a longitudinally movable spring the hammer is not cocked, said hammer becarried by the receiver and having one end ing free of said rod and said rod being free

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