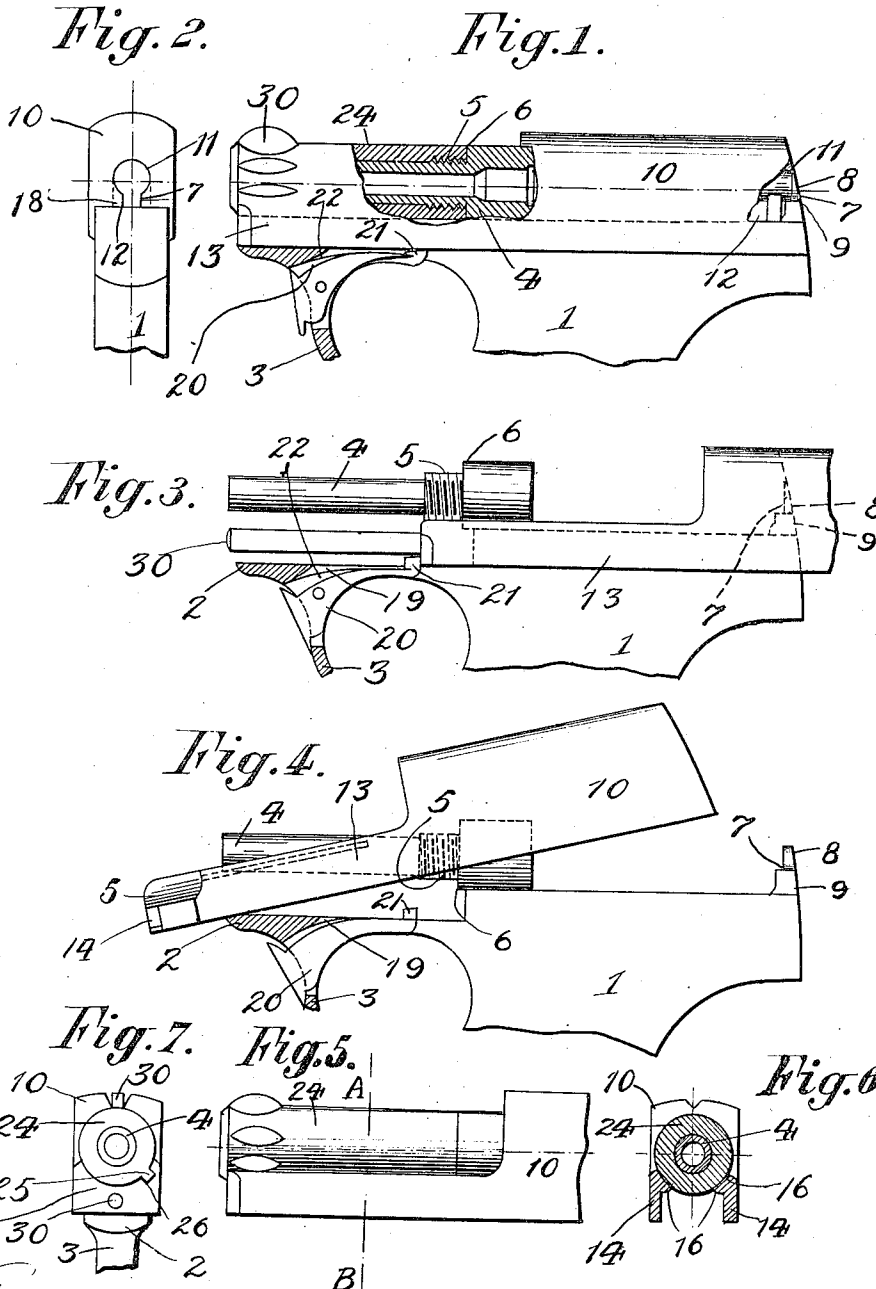


C. WALTHER.
 AUTOMATIC FIREARM WITH STATIONARY BARREL.
 APPLICATION FILED JUNE 9, 1910.

991,398.

Patented May 2, 1911.

2 SHEETS—SHEET 1.



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Fig. 8

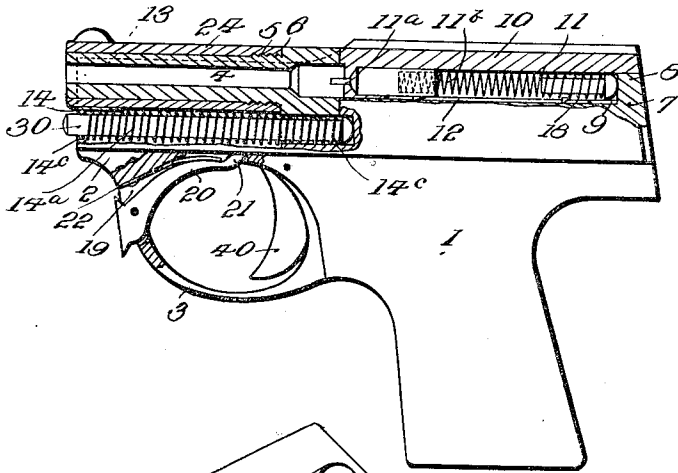


Fig. 9.

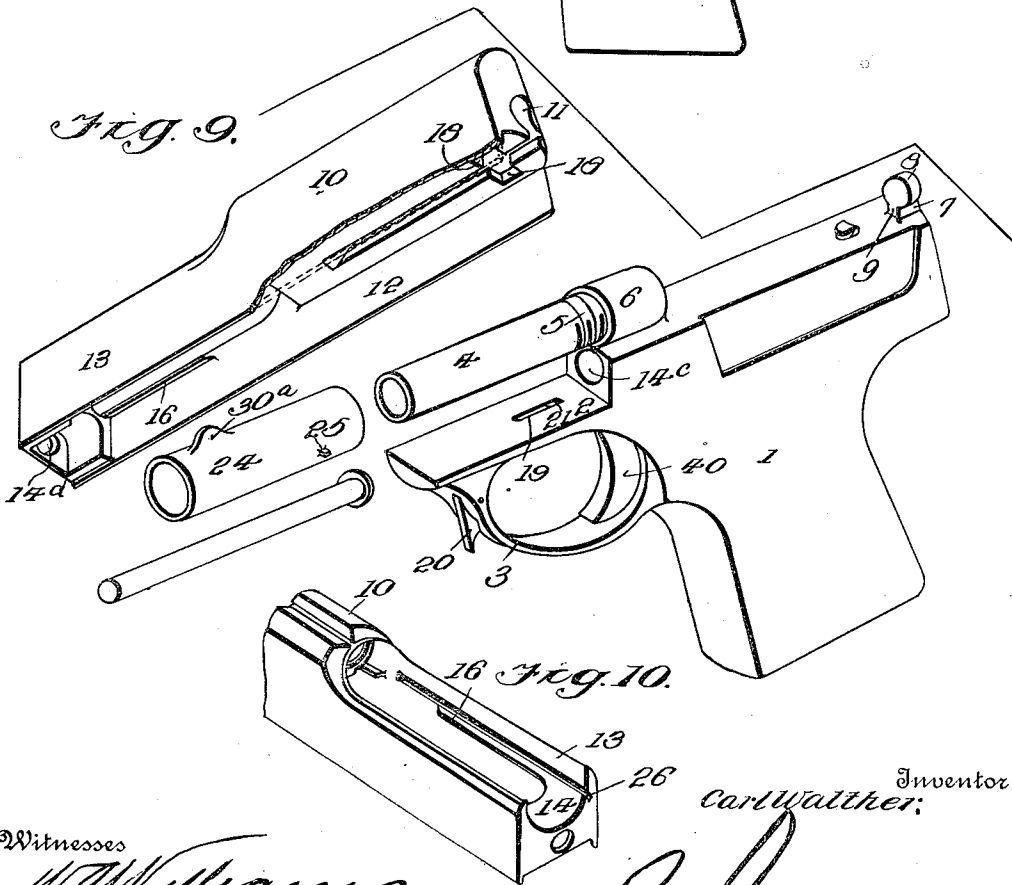


Fig. 10.

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CARL WALTHER, OF ZELLA, GERMANY.

AUTOMATIC FIREARM WITH STATIONARY BARREL.

991,398.

Specification of Letters Patent.

Patented May 2, 1911.

Application filed June 9, 1910. Serial No. 565,918.

To all whom it may concern:

Be it known that I, CARL WALTHER, a subject of the German Emperor, and resident of Zella, Germany, have invented certain new and useful Improvements in and Relating to Automatic Firearms with Stationary Barrels, of which the following is a specification.

This invention relates to automatic fire arms.

The object of the invention is to provide a fire arm in which the breech block is guided at its front end by a sleeve secured around the barrel and at its rear by means on the stock whereby when it is desired to remove the breech block, the sleeve is removed, and the breech block may be conveniently removed.

The invention also comprehends improvements in the details of construction and arrangement of parts which will be hereinafter described and particularly pointed out in the claims.

In the drawings: Figure 1 is a side elevation of my improved fire arm, parts being in section. Fig. 2 is a rear view of the same. Fig. 3 is an elevation of the stock, the breech block being drawn to the rear and held by a retaining trigger. Fig. 4 is an elevation, illustrating the breech block being removed from the stock. Fig. 5 is a detail side elevation of the front portion of the fire arm, the breech block being in the position shown in Fig. 1. Fig. 6 is a detail cross section on the line A—B Fig. 5. Fig. 7 is a front elevation of the fire arm. Fig. 8 is a partial longitudinal section of my improved fire arm, illustrating the firing position. Fig. 9, is a perspective view of the parts separated to illustrate the details of construction. Fig. 10 is a detail perspective view of the front portion of the breech block.

The numeral 1, indicates the stock of a pistol provided at its front end with an extension 2, having a finger guard 3, and on its upper side it is provided with a barrel 4, which is screw-threaded at 5, adjacent a shoulder 6. On the rear upper end of the stock 1, is an upwardly project-

ing lug 7, formed on its upper end with a head 8, and intermediate said head and the stock is a web 9.

Slidably mounted on the stock 1, is a breech block 10. The breech block 10, is formed in its upper rear portion with an opening 11, and a communicating slot 12. From the lower front portion of the breech block, project two forwardly extending side bars 13, connected at their front ends by a cross piece 14, and extending inwardly from these side extensions are ribs 16.

The slot 12 which registers with the bore 11, is formed with lateral enlargements 18, to permit the head of the upwardly projecting lug 7 to pass. The head 8 is in longitudinal alinement with the opening 11, and serves as a means of guiding the rear portion of the breech block when the latter is in operative position on the stock 1. Mounted in the opening 11, between the front end of the breech block, and the head 8, is the usual firing pin 11^a, and a spring 11^b.

In the reduced extension 2 and the finger guard 3, is a slot 19, in which is pivoted a detent 20, having its operative end 21, normally projected through the slot 19, in the path of the cross bar 14, of the breech block, by means of a spring 22.

Screwed on the barrel 4, is a sleeve which abuts against the shoulder 6, and from this sleeve projects a lug 25, which is normally seated in a groove 26 in one of the extensions 13, of the breech block. When the sleeve is in place the upper surface of the end piece 14, fits snugly under it, so that it will be impossible to tilt the breech block to break the interlocking connection with the stock.

When the parts are assembled as described, the breech block is drawn toward the rear to eject a cartridge and to introduce another in the path of the firing pin, and upon the release of the breech block a spring 14^a, on a guide rod 30, seated in an opening 14^a, in the stock 1, and operating in an opening 14^a, in the breech block forces the breech block forwardly and pushes the new cartridge into the barrel, when by pulling the usual trigger 40, the pistol may be

fired. The headed lug 7 fitting in the opening 11, and the cross piece 14, the ribs 16, and the lug and groove 25 and 26 form means for guiding the breech block in its sliding movement on the stock. If it be desired to remove the breech block, the latter is drawn rearwardly until the cross piece 14, is in rear of the operating end 21, of the detent 20, whereupon the spring 22, forces the end 21, upwardly in the path of the cross piece and holds the breech block in open position. The breech block may be pulled back farther than the end 21 of the detent at which time the lug 25, on the sleeve 24 is wholly out of engagement with its groove 26. The sleeve may now be unscrewed from the barrel and removed therefrom, whereupon the detent 20 is released and the breech block is forced forward by its operating spring 14^a until the enlarged portions 18, of the slot 12, register with the head 8, as shown in Fig. 3. Then the rear end of the breech block is tilted and the enlarged portions of the groove permit the head 8 to be withdrawn from the opening and in this tilted condition, said breech block is forced forward, as shown in Fig. 4, and removed from the stock. The cross bar 14, is formed with an opening, through which passes a guide rod 30.

By this construction the operator may conveniently and quickly remove the breech block for repairs, or otherwise, without the necessity of disturbing the operating parts of the pistol. By simply removing the sleeve on the barrel, and tilting the breech block, the interlocking connection between the latter and the stock can be disengaged. The purpose of the lug 26 is to insure the sleeve being in proper position on the barrel so that the sight indicated at 30^a will always be properly located when the parts are assembled.

As the fire arm is designed primarily as a magazine pistol, and as the detent 20 is intended to hold the breech block open to conveniently remove the sleeve 24, said detent may also be used for the purpose of holding the breech block open so that the pistol may be used for inserting a single cartridge in lieu of utilizing the magazine.

What I claim is:

1. In a fire arm, the combination of a stock, a barrel thereon, a breech block slidably mounted on the stock and formed with an opening and a slot the walls of which have enlargements, a headed lug extending upwardly from the stock, the head of said lug operating in the opening, and a sleeve on the barrel to prevent the breech block being tilted, the enlargements in the slot permitting the headed lug to be disengaged from the opening when the sleeve is removed, whereby said block may be removed from the stock.

2. In a fire arm, the combination with a stock provided with a stationary barrel, a breech block provided with a cross bar and mounted on the stock, means for guiding the breech block on the stock, a detachable sleeve on the barrel with which the breech block coöperates to hold the latter in the guiding means to prevent the said breech block being tilted, and means coöperating with the guiding means to permit the elevation of the breech block above the barrel to permit the removal of said breech block when the detachable sleeve is removed.

3. In a fire arm, the combination with a stock provided with a barrel, a sleeve mounted on the barrel, a slidable breech block mounted on the stock, guides on the front portion of the breech block to coöperate with the sleeve to form a guide and means including a lug and an opening therefor for guiding the rear end of the breech block, the said opening having a slot communicating therewith, whereby when the sleeve is removed, the breech block may be tilted to disengage the lug from the openings to remove the breech block from the stock.

4. In a fire arm, the combination with a stock provided with a barrel, a reciprocating breech block provided with an opening and a slot, the latter having enlarged portions, a headed lug extending from the stock and fitting in the opening said lug fitting in the slot and the head fitting in the opening, said breech block having a groove, a sleeve secured to the barrel and provided with a lug which engages the groove in the breech block, and a spring detent on the stock adapted to be positioned in the path of movement of the breech block to hold the latter in open position.

5. In a fire arm, the combination of a stock having a barrel, a breech block slidably mounted on the stock, a sleeve fitting on the barrel to hold the breech block in slidable relation on the stock and to prevent said breech block being tilted at its rear end, and a locking connection between the breech block and the stock.

6. In a fire arm, the combination of a stock, a barrel thereon, a sliding breech block mounted on the stock, and formed with ribs, and a groove, said breech block having an opening and a slot communicating therewith, the opening having enlarged portions, a headed lug extending from the stock, the head of which fits in the opening, a removable sleeve on the barrel, a lug extending from the sleeve, and fitting in the groove in the breech block, the front end of the breech block and the ribs fitting snugly against the sleeve and preventing the tilting of the breech block, the removal of said sleeve permitting of the breech block being tilted and the head of the lug being with-

drawn from the opening, whereby the breech block may be entirely removed from the stock.

5 7. In a fire arm, the combination of a stock, a barrel thereon, a slidable breech block mounted on the stock, and interlocking connection between the breech block and the stock including means for permitting the separation of the breech block and stock,

and detachable means on the barrel for preventing the breaking of the interlocking connection. 10

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

CARL WALTHER.

Witnesses:

M. C. DILLINGHAM,
S. HINZE,
