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R. F. SEDGLEY

1,849,507

FIREARM

Filed May 31, 1930

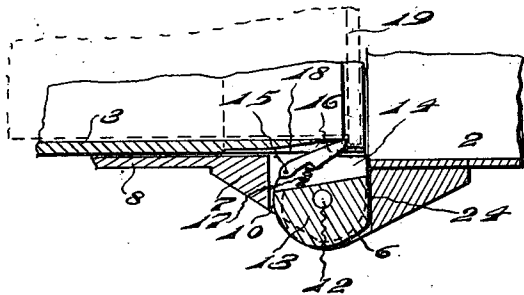
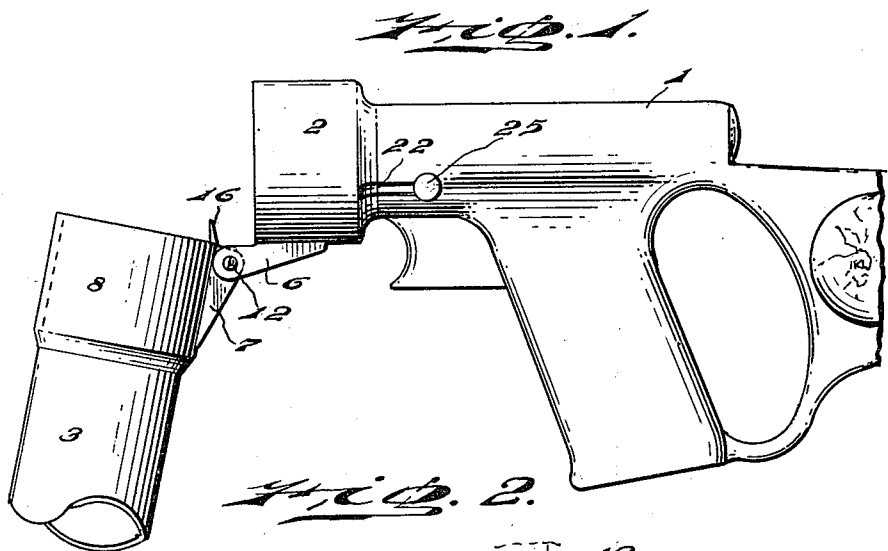


Fig. 3.

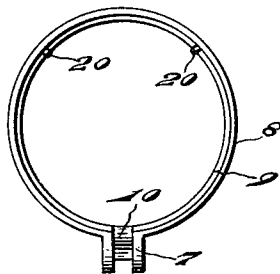


Fig. 4.

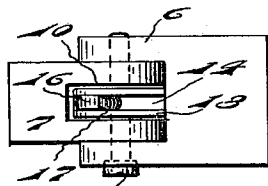


Fig. 5.

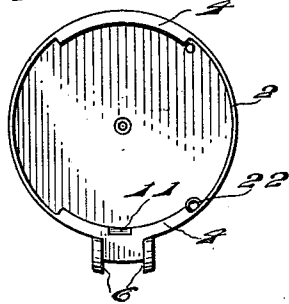


Fig. 6.

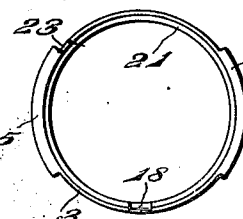
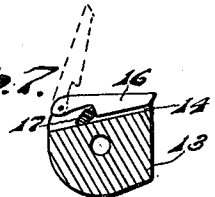


Fig. 7.



INVENTOR.
Reginald F. Sedgley
by
Herbert S. Fairbanks
ATTORNEY.

UNITED STATES PATENT OFFICE

REGINALD F. SEDGLEY, OF PHILADELPHIA, PENNSYLVANIA

FIREARM

Application filed May 31, 1930. Serial No. 458,731.

In my application Serial No. 354,833 filed April 13, 1929, which eventuated into Patent No. 1,788,443, patented January 13, 1931, I have described and broadly claimed a novel construction of a firearm, wherein a hinged barrel is interlocked with the breech in a novel manner.

My present invention relates to a firearm of the same general character as that of my co-pending application aforesaid and is more particularly directed to a novel ejecting means for the cartridge which also has the function of locking the barrel in its carrier and aligning member.

With the above in view, my invention comprehends a novel firearm.

It further comprehends a novel ejecting mechanism.

Other novel features of construction and advantage will hereinafter more clearly appear in the detailed description and the appended claims.

For the purpose of illustrating the invention I have shown in the accompanying drawings a typical embodiment of it, which, in practice, will give reliable and satisfactory results. It is, however, to be understood that this embodiment is typical only and that the various instrumentalities of which my invention consists can be variously arranged and organized, and the invention is not limited to the precise arrangement and organization of these instrumentalities as herein set forth.

Figure 1 is a side elevation of a firearm embodying my invention.

Figure 2 is a section showing its ejector mechanism in assembled position with the breech, the barrel carrier and the barrel.

Figure 3 is an end elevation of the barrel carrier.

Figure 4 is a plan view of the ejector and its carrier in assembled position.

Figure 5 is an end elevation of the breech.

Figure 6 is an end elevation of the barrel.

Figure 7 is a view of the ejector and its carrier.

Similar numerals of reference indicate corresponding parts.

Referring to the drawings:—

1 designates the stock of a firearm embody-

ing my invention. The stock is chambered to receive a firing mechanism, such as, for example, of the type disclosed in my co-pending application to which I have hereinbefore referred. The breech 2 is chambered to receive the inner end of the barrel 3 and is provided with circumferentially spaced lugs 4 forming circumferentially spaced recesses. The barrel 3 is provided with circumferentially spaced lugs 5 which form circumferentially spaced recesses between such lugs. The breech has fixed to its bottom forwardly extending spaced arms 6 to receive the bifurcated lug 7 of a barrel carrier and aligning member 8, having at its rear end an annular recess 9, and a slot 10 which registers with a recess 11 in the inner periphery of the chamber of the breech.

A set screw 12 passes through the arms 6 and the lug 7 to serve as the pivot of the hinged connection between the breech and the barrel carrier. The screw also serves to retain an ejector carrier 13 in position in the slot 10. The ejector carrier 13 has a longitudinally extending slot 14 in its upper face in which is pivoted at 15 an ejector 16, the free end of which tends to move upwardly due to the action of a spring 17. The barrel has its outer periphery recessed as 18 and this recess inclines rearwardly and inwardly opening into the base of the barrel at its rear end and forms an incline guide for the ejector 16, so that, when the barrel is swung downwardly, the free end of the ejector will press the cartridge 19 rearwardly relatively to the barrel so that the cartridge can be readily removed.

The carrier is provided with pins 20 which cooperate with a lug 5 of the barrel to effect their proper alignment with each other. When the barrel is pushed all the way into the breech, the pins 12 clear the lugs 5 and permit relative partial rotation of the barrel and breech. The inner end of the bore of the barrel is recessed as at 21 to receive the rim of the cartridge 19.

The barrel is locked in the breech by means of a spring pressed locking member 22 which extends into a notch 23 at the rear end of the barrel to prevent relative rotation of the bar-

rel and breech, the lugs 5 of the barrel, at such time, being in rear of the lugs 4 of the breech. The locking member 22 has a manually actuated releasing member 25 which can be re-

tracted by the user of the firearm. The releasing member is constructed and operated as shown in my Patent No. 1,788,443, aforesaid and a detailed illustration and description is therefore believed to be unnecessary.

The rear face of the ejector carrier 13 is flat as at 24 and this face abuts against a correspondingly flat face of a boss which carries the arms 6.

Assuming now that a cartridge has been placed in the barrel, the barrel and carrier are moved into alignment with the breech. The barrel slides over the ejector carrier against the tension of its spring and the free end of the ejector is in the path of the rim of the cartridge. The barrel is now moved rearwardly into the breech and partially rotated until the locking member 22 moves into the notch 23 of the barrel. The firearm is now ready to be fired.

To release the locking mechanism, the releasing member 25 is retracted, the barrel partially rotated and drawn forwardly, the barrel swinging downwardly as the barrel carrier swings on its pivot away from the breech, the ejector ejects the cartridge so that it is partially removed from the barrel in such position that the user of the firearm can readily withdraw the cartridge which has been fired.

In the position of the parts shown in Figure 2, the barrel has been rotated and partially withdrawn. The ejector 16, which lies against the outer periphery of the barrel has moved into the recess 18 in position to eject the cartridge from the barrel when the carrier and barrel have been swung away from the breech.

It will be clear from Figure 6 that the top face of the ejector, when in closed position, is at right angles to the face 24.

When the ejector 16 is in the recess 14 of the barrel, the latter is thereby locked to the barrel carrier.

It will now be apparent that I have devised a new and useful firearm which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while I have, in the present instance, shown and described a preferred embodiment thereof which will give in practice satisfactory and reliable results, it is to be understood that this embodiment is susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

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

1. In a firearm, a breech, a barrel carrier

hinged thereto, a barrel having a recess, and ejector mechanism having a spring pressed ejector extending into said recess to contribute to lock the barrel in its carrier and engaging the cartridge to eject it when the barrel is moved away from said breech.

2. In a firearm, a breech, a barrel carrier hinged thereto, a barrel, said barrel and breech having complementary lugs and recesses to align them, whereby the barrel can be inserted by relative longitudinal and rotary movement of the barrel and breech, manual releasable means to lock the barrel with the breech, and means to automatically eject a cartridge when the barrel carrier is swung outwardly from the breech.

3. In a firearm, a breech, a barrel carrier hinged thereto and provided with a slot, an ejector carrier in said slot, a spring pressed ejector mounted on said ejector carrier, a barrel in said barrel carrier having a recess into which said ejector extends, complementary lugs on said barrel and breech to effect their relative alignment on relative longitudinal and rotary movement, and means to lock said barrel with respect to said breech.

4. In a firearm, a breech, a barrel carrier hinged thereto, an ejector casing in said barrel carrier having a slot, a spring pressed ejector pivoted in said slot, a barrel supported in said barrel carrier and having a recess opening through its bore into which said ejector extends whereby when the barrel is swung outwardly from the breech the cartridge will be ejected from the barrel.

5. In a firearm, a breech, a barrel carrier hinged thereto, an ejector carrier mounted in said barrel carrier, a spring pressed ejector pivotally mounted on said ejector carrier, a barrel slidable in said barrel carrier and having a recess opening through its rear end into which said ejector extends, complementary lugs on said barrel and breech whereby the parts are assembled in aligned position on relative longitudinal and rotary movement of the barrel and breech, and pins on said barrel carrier cooperating with a lug of said barrel to align the barrel in the barrel carrier.

6. In a firearm, a breech, a barrel carrier hinged thereto, ejector mechanism carried by said barrel carrier and having a spring pressed ejector, a barrel having a recess in its outer periphery opening through its rear end into which said ejector extends to contact with the rim of a cartridge whereby when the barrel is swung outwardly from the breech a cartridge will be ejected from the barrel, said barrel having a notch in its rear end, and a manually releasable spring pressed locking member to engage said notch.

7. In a firearm, a breech, a barrel carrier hinged to said breech, an ejector carrier through which the pintle of the hinged connection extends, a spring pressed ejector pivotally supported on said ejector carrier, said

barrel carrier being provided with an annular recess forming a shoulder, a barrel engaging said shoulder and having its rear end recessed to receive the rim of a cartridge, and provided in its outer periphery with a rearwardly extending recess into which said ejector extends, whereby, when the carrier and barrel are swung outwardly from the breech the cartridge will be ejected, and means to lock the barrel and breech in assembled condition.

REGINALD F. SEDGLEY.