

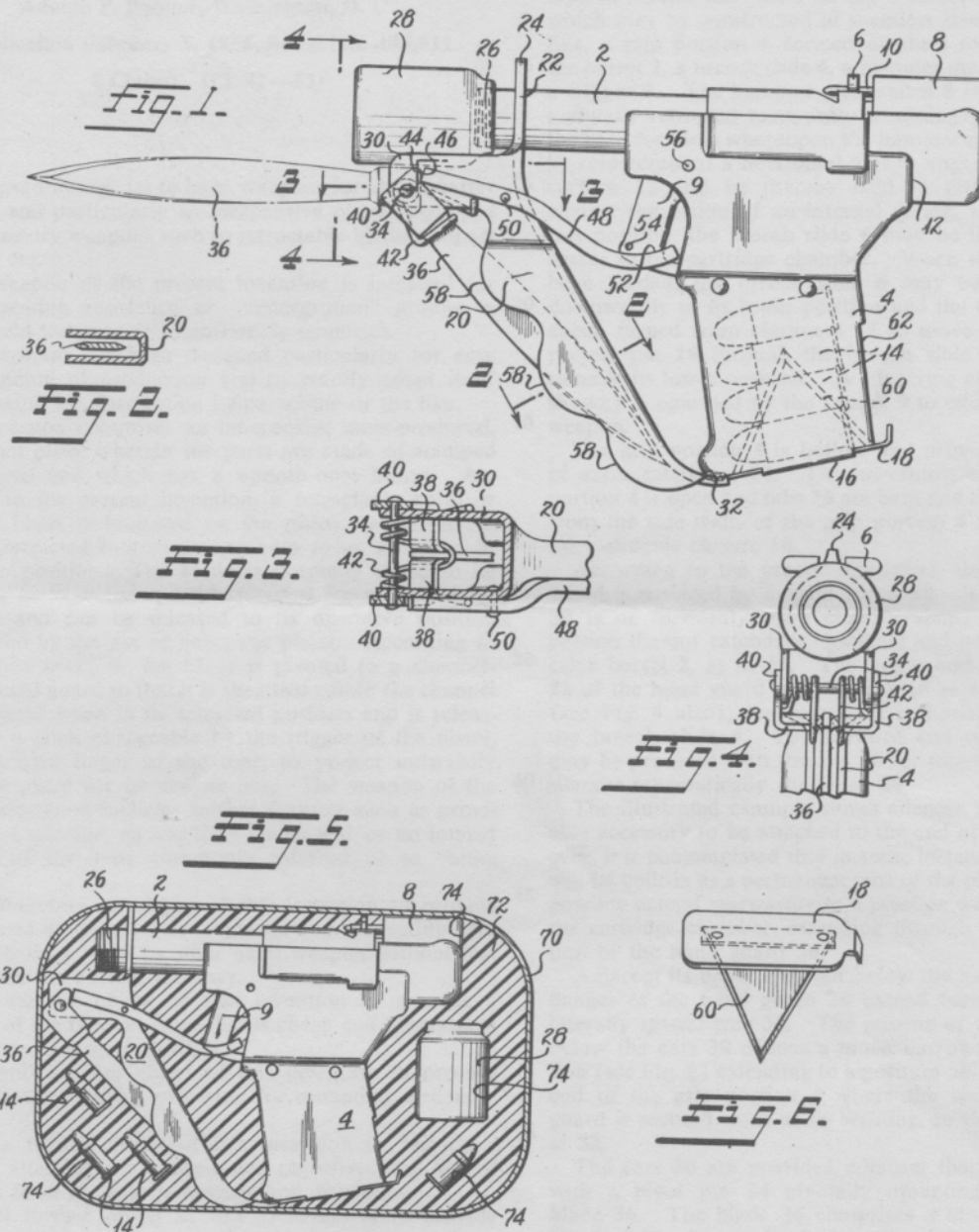
Sept. 10, 1957

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2,805,507

PISTOL WITH A KNIFE BLADE THEREON

Filed Feb. 3, 1955



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PISTOL WITH A KNIFE BLADE THEREON

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Application February 3, 1955, Serial No. 485,911

5 Claims. (Cl. 42—53)

This invention relates to hand weapons for close-quarter combat, and particularly to inexpensive pistols equipped with accessory weapons such as retractable blades, impact weapon, etc.

The weapon of the present invention is intended for use in arming resistance or "underground" groups in enemy-held territory or in unfriendly countries.

The weapon has been designed particularly for ease and economy of production and to readily adapt itself to packaging for distribution by parachute or the like.

The weapon comprises an inexpensive mass-produced, single shot pistol wherein the parts are made of stamped sheet metal and which has a smooth-bore barrel. According to the present invention, a retractable knife or bayonet blade is mounted on the pistol for movement from a retracted inoperative position to an extended or operative position. The blade is normally urged to its extended position but is held retracted for packaging or carrying and can be released to its operative position during and by the act of firing the pistol. According to the specific example, the blade is pivoted to a channel-shaped hand guard so that it is sheathed within the channel of the guard when in its retracted position and is releasable, by a latch engageable by the trigger of the pistol, or the trigger finger of the user, to project outwardly from the pistol for immediate use. The weapon of the present invention includes further features such as provision for a silencer, an auxiliary blade, and/or an impact weapon of the type commonly referred to as "brass knuckles".

It is therefore an object of this invention to provide a combined weapon for close-quarter combat readily convertible from a pistol to other hand weapon without lost motion on the part of the user.

It is another object of this invention to provide a weapon of the type set forth that is cheap and economical to produce in large quantities.

It is still another object of this invention to provide such a weapon having provision for mounting a silencer thereon.

It is a further object of this invention to provide a weapon attaining the above-noted objectives and yet of compact form for easy packaging and distribution.

A still further object of this invention is to provide a novel package arrangement including a weapon attaining the above objectives.

Additional and further objects and advantages will become apparent to those skilled in the art as the description proceeds in connection with the accompanying drawings, wherein:

Fig. 1 is a side elevational view of a weapon embodying the present invention;

Fig. 2 is a transverse sectional view taken substantially along the line 2—2 of Fig. 1;

Fig. 3 is a horizontal sectional view taken substantially along the line 3—3 of Fig. 1;

Fig. 4 is a vertical sectional view taken substantially along the line 4—4 of Fig. 1;

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Fig. 5 is a top view of a package, with the cover removed, illustrating the manner of packing the weapon; and

Fig. 6 is a perspective view of a further component of the weapon.

Referring first to Fig. 1, wherein there is shown a known type of inexpensive pistol having a smooth-bore barrel 2, which may be constructed of seamless steel tubing or the like, a grip portion 4 formed of sheet metal welded to the barrel 2, a breech slide 6, a hammer mechanism 8, and a trigger 9. The hammer mechanism 8 is adapted to be manually retracted rearwardly to disengage pin 10 from the breech slide 6 whereupon the hammer mechanism may be rotated about a horizontal axis to engage an abutment surface 12 and be thereby held in retracted position against the action of an internal spring, not shown. In this position, the breech slide 6 may be lifted to permit access to the cartridge chamber. When the weapon has been loaded, the breech slide 6 may be again moved downwardly to its lower position and the hammer mechanism turned from abutment 12 to move forwardly and project pin 10 through the breech slide 6 to lock the same in its lower position. A triggering mechanism (not shown) is operated by the trigger 9 to effect firing of the weapon.

The grip portion 4 is hollow and provides for storage of extra cartridges 14. The lowermost end of the grip portion 4 is open and tabs 16 are bent and turned inwardly from the side walls of the grip portion 4 to form guides for a slidable closure 18.

According to the present invention, the usual trigger guard is replaced by a hand guard 20. The hand guard 20 is of forwardly open channel shape with the web portion thereof extending upwardly and perforated to receive barrel 2, as at 22. The upper end of the portion 22 of the hand guard may be formed as a front sight 24 (see Fig. 4 also), the rear sight comprising a notch in the breech slide 6. The forward end of the barrel 2 may be provided with threads 26 for mounting a suitable silencer schematically shown at 28.

The illustrated example shows silencer 28 as a removable accessory to be attached to the end of barrel 2, however, it is contemplated that in some instances the silencer will be built-in as a permanent part of the pistol and would possibly extend rearwardly to a position well back toward the cartridge chamber, extending through the upper portion of the hand guard 20.

Adjacent its upper end, but below the barrel 2, the side flanges of the hand guard 20 extend forwardly to form laterally spaced ears 30. The portion of the hand guard below the ears 30 defines a much narrower channel section (see Fig. 2) extending to a position adjacent the lower end of the grip portion 4 where the web of the hand guard is secured, such as by welding, to the grip portion, at 32.

The ears 30 are provided adjacent their forward ends with a pivot pin 34 pivotally mounting a retractable blade 36. The blade 36 comprises a blade portion and brackets 38 of generally Z shape welded to the innermost end of the blade and provided with parallel ears 40 outwardly of the ears 30 of the hand guard. The ears 40 are journaled on the pivot pin 34 (although the pin may be fixed to the ears 40 and journaled in the ears 30) for pivotal movement from the retracted position shown in full lines in Fig. 1 to the extended position shown in dotted line in Fig. 1. A suitable torsion spring 42 is arranged to normally urge the pivoted blade to its extended or dotted line position. One of the ears 40 (see Fig. 1) is provided with an extension 44 defining a latch surface 46 engageable by an end of a pivoted latch member 48 when the blade is in its retracted position.

The latch member 48 is pivoted to one side of the

hand guard, at 50 and extends from a position adjacent the latch surface 46 rearwardly to a position alongside the trigger 9. The innermost end of the latch 48 is curved to define a cam surface 52 alongside trigger 9. A laterally extending pin 54 is mounted on the trigger 9 in such position that, upon firing the pistol by swinging trigger 9 rearwardly about its pivot 56, the pin 54 engages cam surface 52 of the latch 48 and depresses the rear end of latch 48 downwardly, immediately after the pistol is fired sufficiently, to lift the forward end of the latch 48 free of latch surface 46 to permit spring 42 to snap the blade 36 from the full line position of Fig. 1 to the dotted line position for immediate use. Thus, the mere act of firing the pistol releases the knife to its operative position. If desired, the pin 54 may be omitted (see Fig. 5) and the user may then cause his trigger finger to engage the cam surface 52 to release the blade as he fires the pistol or he may, at will, fire the pistol by placing his trigger finger higher on the trigger, without releasing the knife blade.

As clearly evident from the drawings, the point and a substantial portion of the blade of the knife 36 is housed or sheathed between the side flanges of the channel-shaped hand guard when the blade is in its retracted position, thus permitting the user to carry the weapon in a concealed position in his clothing without substantial danger.

The side flanges of the hand guard 20 are further formed with scallops or spaced projections 58 at their forward edge. In the event the knife blade 36 becomes broken or otherwise useless, the projections 58 of the hand guard may serve the user as an impact weapon in the nature of "brass knuckles" while maintaining his normal grip on the pistol.

The closure 18, previously described, is provided with a spike blade 60 fixed to one surface thereof. As shown in Fig. 1, the spike blade extends inwardly from the closure 18. The grip portion 4 of the pistol is provided with a vertical slot 62 in its rearmost edge in alignment with the blade 60 whereby the closure 18 may be removed by sliding the same rearwardly and thus withdraw blade 60 through slot 62, whereupon the closure 18 may be reversed and replaced in its guide 16 with the spike blade 60 projecting downwardly from the pistol grip to serve as a further weapon for close-quarter combat. The hollow interior of the grip portion 4 is of sufficient width to receive two rows of spare cartridges 14 and with the spike blade 60 extending inwardly, as shown in Fig. 1, the blade acts as a separator between two rows of cartridges 14.

As clearly evident from Fig. 4, the ears 30 of the hand guard 20 are spaced laterally a sufficient distance and are so positioned below barrel 2 that the silence 28 may be readily applied to or removed from the pistol without interference from the ears 30 or the knife blade 36.

Clearly the blade 36 may be pivoted to the hand guard at the lower end thereof if desired, and it is even contemplated that the blade may be slidably mounted on the pistol for movement from a retracted to an extended position.

It will be noted that the pivot pin 34 for the blade is located adjacent the lower edges of ears 30. By this means the transverse portions of the brackets 38 abut the forward edges of ears 30 when the blade is in its extended position to thereby act as a stop, limiting swinging movement of the blade 36.

Referring now to Fig. 5, there is shown a container 70 filled with a body 72 of foam plastic or similar cushioning material. The body of cushioning material 72 is provided with recesses 74 of a size and shape to receive the weapon described, the silencer 28, and additional spare rounds of ammunition 14. It is contemplated that the container 72 be a sealed tin bearing printing or labels on its outer surface suggesting that food or the like is contained therein. The sealed tin may have an opening key soldered to the bottom thereof for use in the well known

manner to open the tin and gain access to the weapon therein.

While a single specific embodiment of the invention has been shown and described herein, it is to be understood that many modifications may be resorted to within the scope of the appended claims.

I claim:

1. A close-combat weapon comprising, a pistol having a barrel, a grip portion, and a trigger, a knife blade movably mounted on said pistol for movement thereon from a retracted inoperative position to an extended operative position, means normally urging said knife blade to its said extended position, latch means for holding said knife blade in its said retracted position, and movable latch release means, said latch release means including an operating lever having a portion thereof extending along a side of said trigger for actuation by the trigger finger of the user whereby said user may selectively actuate said trigger or said knife release lever, or actuate both said trigger and said lever substantially simultaneously

2. A close-combat weapon comprising, a pistol having a barrel, a grip portion, and a trigger, a knife blade movably mounted on said pistol for movement thereon from a retracted inoperative position to an extended operative position, a hand guard mounted on said barrel and connected with the lower end of said grip portion, said hand guard having a channel formed therein to receive said knife blade when disposed in its inoperative position, means normally urging said blade to said extended position, latch means for holding said blade in said retracted position, and movable latch release means, said latch release means including an operating lever having a portion thereof extending along a side of said trigger for actuation by the trigger finger of the user whereby said user may selectively actuate said trigger or said knife release lever, or actuate both said trigger and said lever substantially simultaneously.

3. A close combat weapon comprising, a pistol having a barrel, a grip portion, and a trigger, a knife blade movably mounted on said pistol for movement thereon from a retracted inoperative position to an extended operative position, a hand guard mounted on said barrel and connected with the lower end of said grip portion, said hand guard having a channel formed therein to receive said knife blade when disposed in its inoperative position, means normally urging said blade to said extended position, latch means for holding said blade in said retracted position, movable latch release means, said latch release means including an operating lever having a portion thereof extending along a side of said trigger for actuation by the trigger finger of the user independently of the actuation of said trigger, and a pin projecting from said side of said trigger adapted to engage and actuate said lever substantially simultaneously with the actuation of said trigger by the trigger finger of the user.

4. A close-combat weapon comprising, a pistol having a barrel, a grip portion, and a trigger, a hand guard having a pair of opposed ends of which one end is mounted on said barrel and the other end thereof is connected to the lower end of said grip portion, said hand guard having a forwardly-open channel extending from adjacent said barrel to the lower end of said grip portion, a knife blade having an end thereof pivotally connected on said hand guard adjacent said barrel with the free end thereof movable from a retracted inoperative position to an extended operable position, said knife blade in its inoperative position lying at least partially within said channel, means on said hand guard constantly tending to urge said knife blade towards its extended operable position, cooperating latch means on said knife blade and said hand guard to releasably secure said knife blade in its inoperative position, said releasable latch means including a knife release lever having a portion thereof disposed adjacent said trigger for actuation by the trigger finger of the user

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5. A close-combat weapon comprising, a pistol having a barrel, a grip portion, and a trigger, a knife blade movably mounted on said pistol for movement thereon from a retracted inoperative position to an extended operative position, a hand guard mounted on said barrel and connected with the lower end of said grip portion, said hand guard having a channel formed therein to receive said knife blade when disposed in its inoperative position, means normally urging said blade to said extended position, latch means for holding said blade in said retracted position, and movable latch release means, said latch release means including an operating lever pivotally mounted on said hand guard and having a portion thereof extending along a side of said trigger for actuation by the trigger finger of the user whereby the user may selectively actuate by his trigger finger said operating lever

for said latch release means independently of said trigger or to actuate said operating lever and said trigger substantially simultaneously.

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