

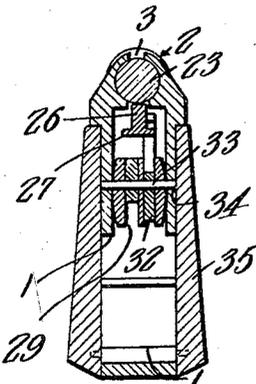
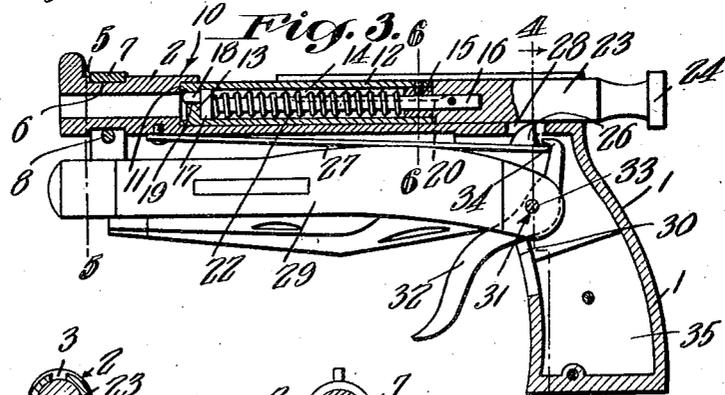
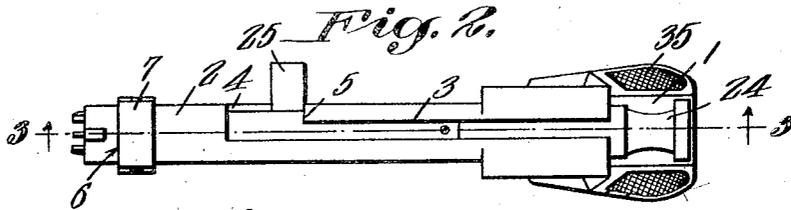
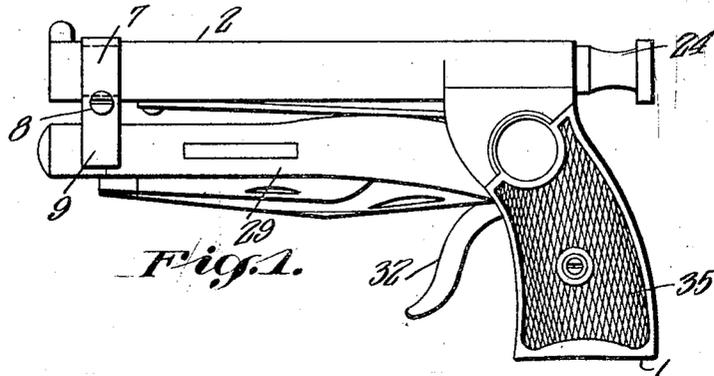
Nov. 18, 1924.

1,515,751

L. E. POLHEMUS

COMBINED KNIFE AND PISTOL

Filed Jan. 3, 1924



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# UNITED STATES PATENT OFFICE.

LOUIS EDWARD POLHEMUS, OF MIAMI, ARIZONA.

## COMBINED KNIFE AND PISTOL.

Application filed January 3, 1924. Serial No. 684,232.

*To all whom it may concern:*

Be it known that I, LOUIS E. POLHEMUS, a citizen of the United States, residing at Miami, in the county of Gila and State of Arizona, have invented a new and useful Combined Knife and Pistol, of which the following is a specification.

This invention relates to a combined knife and pistol designed primarily for use by hunters, trappers, and campers, one of the objects of the invention being to provide a combination device of this character which is compact and either the knife or pistol portion of which can be used independently of the other without the necessity of disconnecting them although, if desired, one can be used without the other and separately therefrom.

A further object is to provide novel means for assembling the parts, the knife having combined therewith a trigger for controlling the firing of the pistol.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings—

Figure 1 is a side elevation of the device.

Fig. 2 is a plan view thereof.

Fig. 3 is a section on line 3—3, Fig. 2.

Fig. 4 is a section on line 4—4, Fig. 3.

Fig. 5 is a section on line 5—5, Fig. 3, the knife being removed.

Fig. 6 is an enlarged section on line 6—6, Fig. 3.

Referring to the figures by characters of reference 1 designates a hollow handle made integral with a barrel 2 in which is formed a longitudinal slot 3. This slot extends from the rear end of the barrel to a point adjacent the front end thereof where the slot is formed with a lateral extension 4 providing a retaining shoulder 5. An annular groove 6 is formed in the barrel between the slot and the front end of the barrel seated in this groove is a band 7 held in place by a bolt 8 or the like extending transversely under the barrel and through op-

posed portions of the band. The terminals of the band are bowed in opposite directions respectively to provide the jaws 9 of a spring clip. The slotted portion of the barrel 2 is counterbored as indicated at 10 so as to provide an interior seat 11 within the barrel between the front end thereof and the forward end of the slot 3.

The forward portion of the barrel is adapted to receive a cartridge the rim of which will bear against the seat 11.

Slidably and removably mounted within the counterbore 10 is a bolt 12 one end of which is closed and recessed as shown at 13 and is adapted to hold the rim of a cartridge against the seat 11. A longitudinal recess 14 is extended into the bolt from the other end thereof and detachably secured in said end of the bolt is a sleeve 15 in which is slidably mounted a rod 16. One end of this rod has a head 17 from which extends a firing pin 18, said pin being normally extended through an opening 19 formed in the closed end 13 of the bolt 12. A longitudinal keyway 20 is formed in the rod 16 and receives a threaded pin 21 that is used for fastening the sleeve 15 to the bolt 12. Thus the rod 16 is held against rotation relative to the bolt although capable of sliding therein. A spring 22 is arranged in the bolt and bears at one end against the head 17 and at its other end against the sleeve. This spring serves to hold the firing pin 18 normally within the opening 19 and slightly projecting from the bolt as shown. A head 23 is secured to one end of the rod 16 and projects from the open rear end of the barrel, this head being provided with a knob 24 whereby it can be manipulated readily. An ear 25 is extended radially from the barrel and adapted to be seated within the lateral extension 4 of the slot and to engage the shoulder 5 so as to hold the bolt against withdrawal from the barrel. By rotating the bolt, however, so as to move the ear 25 out of the slot extension 4, said ear can be withdrawn through the slot 3 and the entire bolt and parts connected thereto can thus be removed.

The head 23 is of the same external diameter as the bolt 12 and bearing against the bottom of this head is the head 26 of a spring catch 27. This head is located at one end of the catch while the other end is fastened to the barrel close to the slip band 7. A slot 28 is provided in the barrel for the

reception of the head 26. Obviously, when the head 23 is pulled backwardly the rod 16 is also moved therewith and the spring 22 is placed under compression. When the inner end of the head 23 passes the head 26, spring 27 will shift said head 26 into position in front of the head so as to hold it against return movement under the action of its spring 22.

An ordinary pen knife indicated at 29 is supported under the barrel 2 and has one end thereof engaged by the jaws 9 of the spring clip. The other end of the knife is extended into an opening 30 provided in the front portion of the handle 1. A hole 31 is formed transversely within that end of the handle of the knife located in the handle 1, and said end of the handle is also slotted. A trigger 32 is seated in this slotted end of the handle of the knife and is engaged by a pivot pin 33 seated in the opening 31. One end of the trigger has a head 34 adapted to engage one end of the spring 22 so as to pull downwardly on the spring when the trigger is actuated by pulling on the other end thereof. For the purpose of holding the knife assembled with the handle 1 the ends of the pin 33 are extended into openings 34 in the sides of the handle 1. Finishing plates 35 of hard rubber or the like can be secured to the sides of the handle 1 as shown.

In using the pistol the head 23 and the bolt 12 are first rotated so as to remove the ear 25 from the slot extension 4 after which the bolt and head are drawn backwardly relative to the barrel. This will leave an open space back of the slot extension 4 sufficiently large to receive a cartridge. The head and bolt are then returned to their normal positions, thus thrusting the cartridge into position within the forward portion of the barrel and with its rim engaging the seat 11. The bolt is rotated by means of the head 23 to bring ear 25 in engagement with the shoulder 5. Head 23 is then pulled backwardly until its forward end is engaged by the spring controlled head 26. Thus the firing pin will be held in retracted position and with spring 22 under compression. By pulling on trigger 32, spring 27 will be forced downwardly so as to disengage head 26 from head 23. Consequently spring 22 will force the head 23 and the firing pin forwardly with the result that the cartridge will be exploded.

It will be noted that the knife and the pistol can be used independently and, if

desired, the knife can be detached from the pistol by removing the face plate 35, and then extracting the pin 33 from the handle 1 and the openings 31.

A tool of the class described is especially useful by trappers as it can be employed for shooting trap game and subsequently for skinning it.

Obviously various changes can be made in the construction of the different parts.

What is claimed is:

1. The combination with a pistol including a barrel, a handle, and firing mechanism, of a spring catch for holding the firing mechanism set, said catch being connected to the barrel and extending into the handle, a knife detachably connected at one end to the barrel and at its other end within the handle, a trigger detachably and pivotally connected to one end of the knife, and engaging and adapted to actuate the catch to release the firing mechanism.

2. The combination with a pistol including a barrel, a handle, and firing mechanism, of a spring catch carried by the barrel and projecting into the handle for holding the firing mechanism set, a clip connected to the barrel, a knife including a handle detachably mounted at one end in the clip and at its other end in the handle of the pistol, and a trigger pivotally mounted in the knife handle and extending into the pistol handle, said trigger engaging and adapted to actuate the spring catch to release the firing mechanism.

3. The combination with a pistol including a barrel, a handle, and firing mechanism within the barrel, of a spring catch secured to the barrel and extending into the handle, for engaging and holding the firing mechanism set, a clip carried by the barrel, a knife having a handle detachably engaging the clip at one end, the other end of the knife being extended into the pistol handle, a removable pivot pin extending transversely through the knife handle and into the sides of the pistol, and a trigger mounted on said pin, and engaging and adapted to actuate the spring catch to release the firing mechanism.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

LOUIS EDWARD POLHEMUS.

Witnesses:

Mrs. HATTIE S. SOTO,  
Mrs. M. L. DESPAIN.