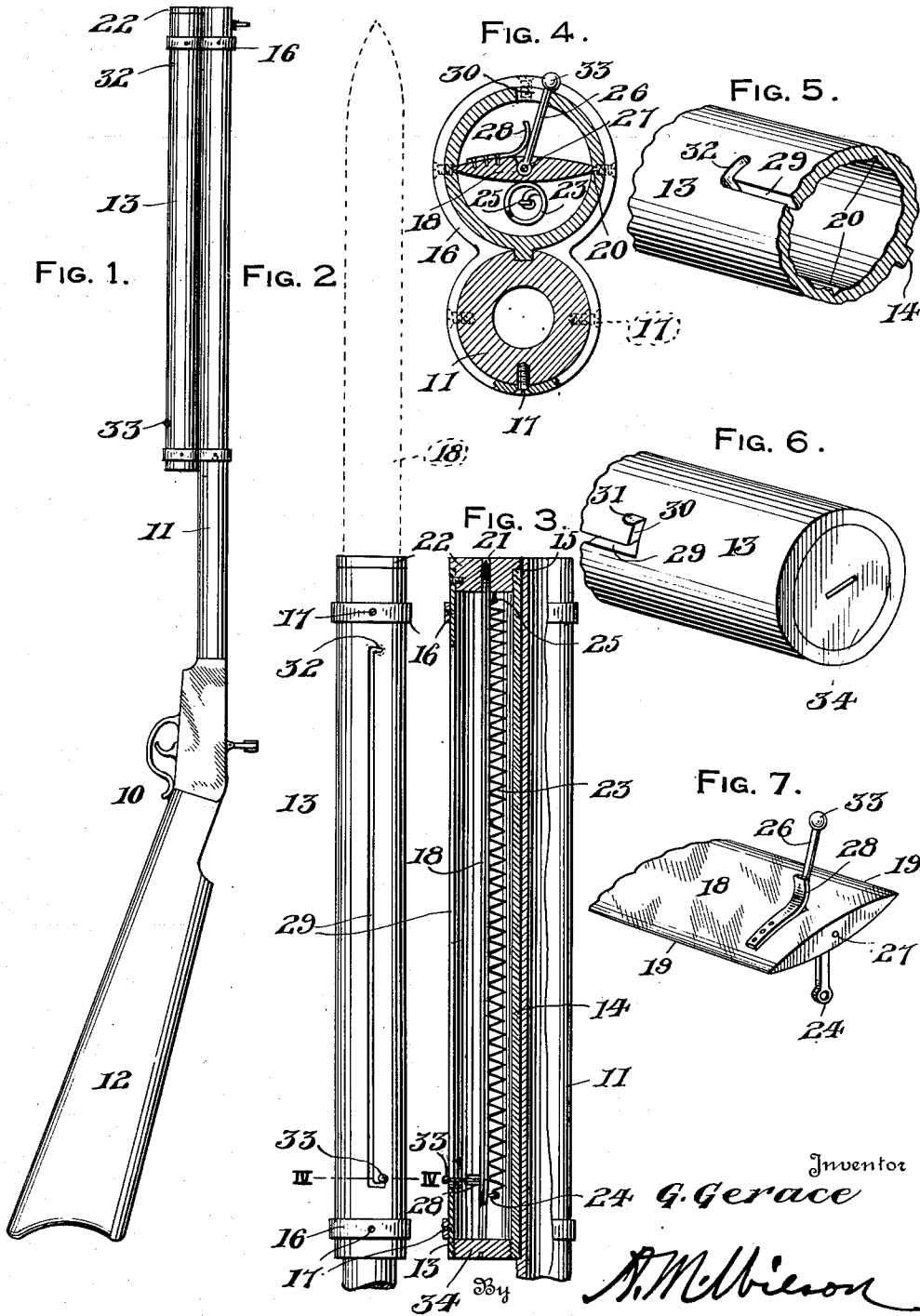


G. GERACE,
DISAPPEARING BAYONET,
APPLICATION FILED JULY 26, 1917.

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Patented Nov. 13, 1917.



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DISAPPEARING BAYONET.

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To all whom it may concern:

Be it known that I, GAETANO GERACE, a subject of the King of Italy, residing at the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Disappearing Bayonets, of which the following is a specification.

The primary object of the invention is the provision of a bayonet for fire-arms that is readily retracted and retained hidden from view and automatically projected for use whenever desired.

A further object of the device is the provision of a bayonet for rifles adapted for maintenance in a normally closed position adjacent the barrel ready for instant projecting forwardly of the latter when released upon being required for use.

A still further object of the invention is the provision of a disappearing bayonet that is readily attached to the barrel of any form of fire-arm conveniently positioned for employing the bayonet in connection therewith.

In the drawing forming a part of this application and in which like reference characters designate corresponding parts throughout the several views,

Figure 1 is a side elevation of a gun provided with the present device.

Fig. 2 is a bottom plan view of the forward portion thereof showing the device upon an enlarged scale and with the bayonet indicated by dotted lines in its projected operative position.

Fig. 3 is a longitudinal sectional view through the same with the gun barrel partially shown in elevation.

Fig. 4 is a transverse sectional view thereof.

Fig. 5 is a perspective view of a section of the device adjacent its forward end.

Fig. 6 is a perspective view of a rear end portion of the device, and

Fig. 7 is a perspective view of the rear end portion of the bayonet.

The invention being designed for attaching a disappearing bayonet in a compact manner upon a fire-arm, the same is herein illustrated in connection with a rifle having a barrel 11 and a stock 12. A housing 13 is arranged beneath the barrel 11 having a longitudinal rib 14 seated within a longitudinal groove 15 on the under side of the barrel, a plurality of straps 16 in the form of a figure 8 encircling the barrel 11 a tube

13 for maintaining the tube upon the barrel, suitable connecting screws 17 being provided.

A double convex bayonet or blade 18 is slidably arranged within the tube 13 with the opposite sharpened edges 19 of the bayonet slidably positioned within opposite V-shaped grooves 20 longitudinally arranged within the tube, whereby, as will be evident, the bayonet may be retracted entirely within the tube 13 or may be projected outwardly thereof through a slot 21 in the forward head 22 of the tube as illustrated by dotted lines in Fig. 2 of the drawing.

A projection spring 23 is connected between a post 24 at the rear end of the blade 18 and a staple 25 upon the inner face of the cap 22, the said spring tending to forwardly move the blade. A rear head or plug 34 preferably closes the rear end of the tube 13. A latch 26 is pivoted to the blade 18 as at 27 having a swinging movement transversely of the blade and normally swung laterally by means of a leaf spring 28, the said latch being arranged through a longitudinal slot 29 provided in the under side of the tube 13 whereby the latch will slide through the said slot during the longitudinal movement of the blade 18.

An angular lateral extension 30 is provided at the inner end of the slot 29 and into which the latch 26 is seated when the bayonet 18 is retracted and at which times the spring 23 will be extended, it being understood that the latch will seat itself within the terminal socket 31 of the slot extension 30 as best illustrated in Fig. 2 of the drawing, thereby maintaining the bayonet retracted until the latch is released.

With the bayonet retracted within the tube 13, the gun 10 may be used in the ordinary manner and when it becomes desirable to employ the bayonet 18 the finger of the operator may readily release the latch 26 from the slot extension 30 and thereupon the spring 23 will instantly project the bayonet forwardly of the cap 22. A transverse extension 32 is provided for the forward end of the slot 29 and into this extension 32, the latch 26 automatically seats when the bayonet is projected and whereby the bayonet is fixed in its operative arrangement and cannot be released by any force exerted upon the bayonet 18 and only by manually releasing the latch 26. The latch 26 is provided with a ball or handle 33 at its free end out-

wardly of the slot 29 and may be grasped for removing the latch from the extension 32 and rearwardly sliding the blade 18 until the latch engages the rear extension 30 of the slot 29. The spring 28 normally tends to laterally move the latch 26 for seating within the extensions 30 and 32 when the latch is positioned in alinement therewith with the bayonet 18 either entirely retracted or projected.

A serviceable bayonet is arranged which may be readily employed upon the barrel 11 when desired and which is out of the way and obscured from view when not desired for use but is instantly automatically positioned for operation whenever desired.

What I claim as new is:—

1. A bayonet attachment comprising a tube having opposite grooves longitudinally arranged therein, a double convex blade slidably arranged within the grooves, a forward head for said tube arranged with a transverse slot within which the said blade is slidably positioned, means for projecting the blade connected between the latter and

said head, the said tube having a longitudinal slot therein having lateral extensions at both ends thereof and a spring pressed retaining latch, pivoted for transverse movement upon the blade, projecting through the said slot and adapted for automatically seating the latch in said extensions at the opposite limits of movement of the blade.

2. In combination with a gun having a barrel provided with a longitudinal groove on its lower side, a tube positioned longitudinally beneath the barrel with a rib arranged within the said groove, 8-shaped securing straps surrounding the said barrel and tube, a double convex blade longitudinally slidably arranged within the tube, resilient means within the tube attached to the blade and adapted for projecting the same, and a spring pressed retaining latch upon said blade adapted for restraining engagement with the said tube when the blade is either projected outwardly thereof or retracted inwardly of the tube.

In testimony whereof I affix my signature.
GAETANO GERACE.