To all whom it may concern:

Be it known that I, JOSEPH TOMANEK, a citizen of Czechoslovakia, residing at Truscott, in the county of Knox and State of Texas, have invented certain new and useful Improvements in Bayonet Mountings for Guns, of which the following is a specification.

This invention relates to certain new and useful improvements in bayonet mountings for guns and has for its primary object to provide a resiliently mounted bayonet normally held in a retracted and housed condition with respect to the outer end of a gun barrel and adapted for automatic projection forwardly of the gun barrel to be rigidly supported in such projected position.

A further object of the invention is to provide a bayonet mounting of the above type wherein independent means are provided for holding the bayonet in a retracted and housed position separate from the automatic retracting and projection devices to eliminate accidental projection of the bayonet when the gun is out of use.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing, wherein like reference characters designate corresponding parts throughout the several views—

Figure 1 is a side elevational view of a gun equipped with an automatically projecting bayonet constructed in accordance with the present invention.

Figure 2 is a side elevational view of the gun barrel with the bayonet supported thereon and in a projected position with the housing for the bayonet and its associated mechanism removed.

Figure 3 is a side elevational view similar to Fig. 2 showing the bayonet in a retracted position.

Figure 4 is a longitudinal sectional view through the housing for enclosing the bayonet and with the bayonet in its projected position illustrating the latch devices for holding the bayonet retracted and projected.

Figure 5 is a longitudinal sectional view, similar to Fig. 4 showing the separate lock device for holding the bayonet retracted.

Figure 6 is a longitudinal sectional view through the bayonet housing with the bayonet retracted, and

Figure 7 is a cross-sectional view taken on line VII—VII of Fig. 1.

The gun may be of any convenient type of rifle embodying a barrel 1 with which the automatically projecting bayonet is associated. The bayonet includes a handle 2 carrying a blade 3 at its forward end while rings or eyelets 4 guide the bayonet handle and blade in its sliding movements.

A bracket 5 shown in detail in Fig. 7 is secured as at 6 to the side of the gun barrel 1 and carries a forwardly directed plate 7 at its outer end extending parallel with the barrel while the forward end of the plate 7 is provided with an opening 8 for purposes to be presently described. A rod 9 is slidable through the bracket 5 and is provided with a hook 10 upon its forward end that engages the hook 11 upon the rear end of the bayonet handle 2 as illustrated.

The bayonet is automatically projected beyond the forward or muzzle end of the barrel 1 by the coil spring 12 surrounding the rod 9, the coil spring engaging the bracket 5 at its rear end while the forward end thereof engages the disk 13 secured to the rod 9 adjacent the hook 10.

The rear end of the rod 9 rearwardly of the bracket 5 is angularly bent as at 14 and carries a finger piece 15, the side wall of the barrel 1 being provided with a socket 16 that houses a spring pressed latch 17 for engagement with the bent end 14 of the rod for holding the bayonet retracted against the tension of the spring 12 as shown in Fig. 3. When the latch 17 is operated to release the rod 9, the spring 12 automatically projects the bayonet forwardly of the muzzle end of the barrel and the bent end 14 of said rod is engaged by the latch 18 housed in the socket 19 formed in the barrel 1 as illustrated in Fig. 4.

The latch devices above described and the connection between the rod 9 and bayonet hook 11 are employed when the gun is in actual use, and to prevent accidental projection of the bayonet, the curved housing 20 hinged as at 21 to the side of the barrel is released at its free edge from the catch...
22 and swung upon its hinged mounting to permit access to the bayonet and its automatic operating mechanism. To lock the bayonet in a retracted position independently of the rod 9 and latch 17, the hook 11 upon the rear end of the bayonet handle 2 is moved into engagement with the opening 8 in the plate 7 as shown in Fig. 5, the housing 20 being then moved to the closed position illustrated in Fig. 7 for entirely housing the bayonet and restricting its movement for preventing it from becoming disconnected from the plate 7, as clearly illustrated in Fig. 5.

From the above detailed description of the device, it is thought that the construction and operation thereof should at once be apparent and while there is herein illustrated the preferred embodiment of the present invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What is claimed as new is—

In an automatic bayonet mounting for guns, the combination with a gun barrel, a bayonet slidably mounted thereon, resilient means detachably connected to the bayonet for normally projecting the latter, latch devices for holding the bayonet projected or retracted, immovable means carried by the barrel to which the bayonet may be attached for holding the latter retracted when not in use, and a cover hinged to the barrel adapted to enclose the bayonet when retracted and to prevent it from being accidentally detached from the immovable means, when so enclosed.

In testimony whereof I affix my signature.

JOSEPH TOMANEK.