Dec. 24, 1957 G. A. LEHMAN 2,817,172

BARREL LOCK FOR RIFLES

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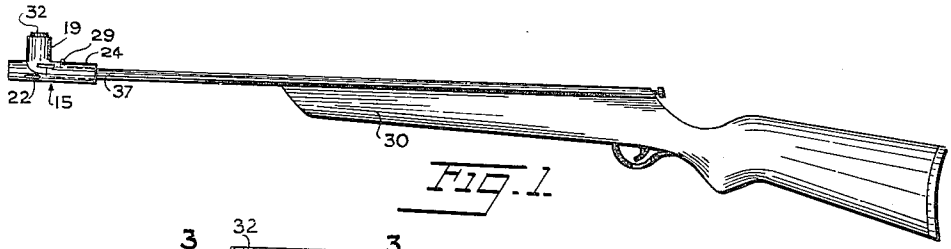


Fig. 1.

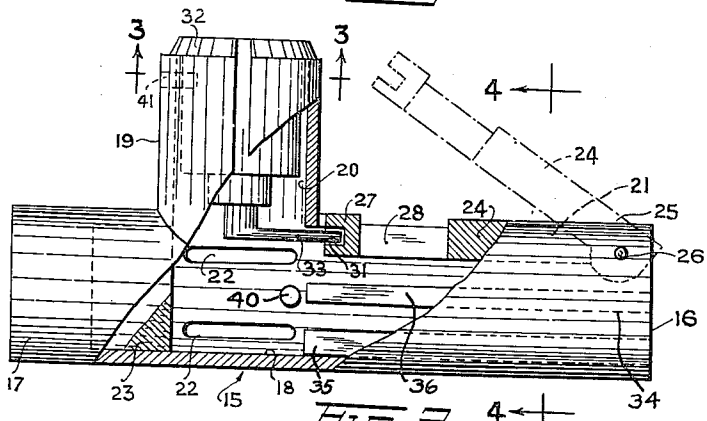


Fig. 2.

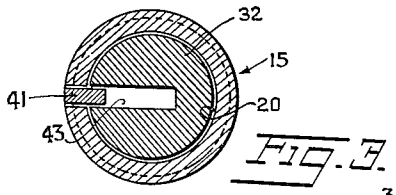


Fig. 3.

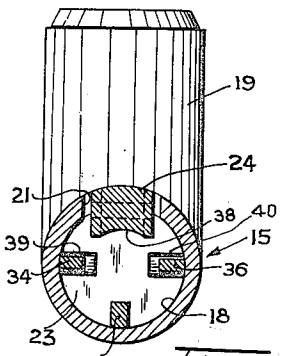


Fig. 4.

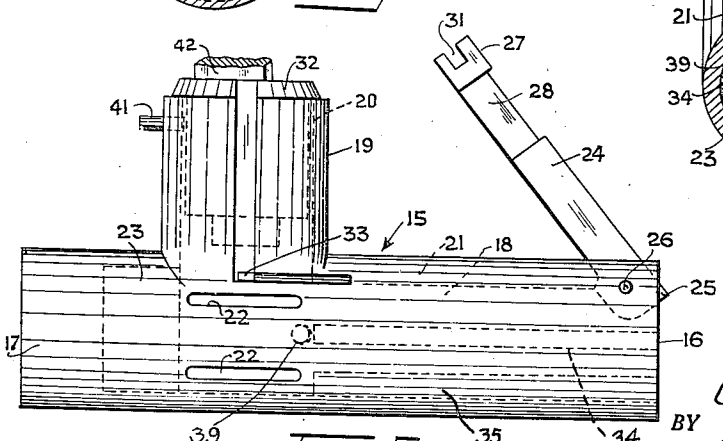


Fig. 5.

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BARREL LOCK FOR RIFLES

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1 Claim. (Cl. 42—1)

This invention relates to new and useful improvements in firearms and firearm accessories.

More particularly, the present invention proposes the construction of an improved barrel lock for rifles which can be used easily and safely on the muzzle end of a rifle to stop a bullet on accidental discharge of the piece.

As a further object, the present invention proposes forming the barrel lock with a cam locking lever having a sight opening and adapted to secure the lock on a rifle over the front sight without damaging the front sight.

Still another object of the invention proposes constructing the device with a locking extension and a lock member which will hold the device securely on a rifle barrel and make it impossible to remove without the use of a special key.

Another object of the invention proposes forming the device with removable bullet stopping packing and spaced gas exhaust port openings so that the rifle on which the device is locked can be fired without harm or release of the bullet and so that the device can be used any number of times merely by replacing the inexpensive packing.

It is another object of the invention to provide a device simple in construction which will perform safely to prevent death, injury or property damage from careless handling of a rifle and accidental discharge.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a side view of a rifle and a barrel type lock constructed and arranged in accordance with the present invention.

Fig. 2 is an enlarged side view of the barrel lock with parts broken away and in section.

Fig. 3 is a sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a sectional view taken on line 4—4 of Fig. 2.

Fig. 5 is a side view of the barrel lock with the cam locking lever raised and with a key shown, partly broken away, in the lock.

Referring more particularly to the drawings, the barrel type lock in accordance with the present invention has a body **15** which preferably is cylindrical and made of steel or other metal which may be non-rusting or rust resistant treated.

Body **15** has an open rear end **16**, a closed front end **17**, and a cylindrical bore **18** which extends from the open end **16** to the closed end **17**. A tubular locking extension **19** on the body **15** adjacent the closed end **17** has a longitudinal axis substantially perpendicular or perpendicular to the longitudinal axis of the body **15**. Inside the locking extension **19** is a locking chamber **20** which extends through the extension **19** into the bore **18** of body **15**.

Body **15** also has a clamping lever opening **21** between the open end **16** and the locking extension **19** and spaced

gas exhaust ports or port openings **22** which are disposed adjacent the closed end **17** of the body.

Bullet stopping wadding or packing **23** is removably mounted in the bore **18** of body **15** at the closed end **17** of the body. The packing **23** is spaced from the gas exhaust port openings **22** so as not to clog or stop up these exhaust ports.

A clamping lever **24** is pivotally secured at one end **25** by a pivot pin **26** to the body **15** adjacent the open end **16** of the body. Lever **24** has another end **27** with a sight receiving opening **28** adapted to be disposed in the clamping lever opening **21** of the body **15** adjacent the locking extension **19**. The sight opening **28** is adapted to fit around the front sight **29** of a rifle **30**. The lever has a transverse slot **31** in its free end.

A key-operated locking barrel member **32** of a conventional pin and tumbler type lock assembly is rotatably mounted in the chamber **20** of the locking extension **19**. A bar **33** extends outwardly of the inner end of the barrel and then protrudes laterally in the bore **18** of the body **15**. When the barrel member **32** is turned by its key, the bar **33** is adapted to be swung into the slotted free end **31** of the lever **24** and lock the lever in locking position as shown in solid lines in Fig. 2.

Inside the cylindrical bore **18** of body **15** are spaced rifle barrel spacing members **34**, **35** and **36** disposed longitudinally and adapted to hold the muzzle end **37** of rifle **30** spaced from the inner side walls of the cylindrical bore **18**.

Locking lever **24** has a rifle barrel holding cam extension **38** adapted to abut and frictionally hold a rifle barrel **37** in the bore **18** of the body **15** between the rifle barrel spacing members **34**, **35** and **36** and the barrel holding cam extension **38** on the locking lever.

Rifle barrel end stop members or pins **39** and **40** are disposed in the bore **18** of body **15** to limit the inward movement and hold the muzzle of rifle **30** spaced from the packing **23** in the bore **18** and from the gas exhaust ports **22**.

A pin **41** is slidably mounted in a radial opening in the extension **19** adjacent its upper end. The pin is adapted to be slid into an aligned slot **43** formed in the locking barrel **32** to interlock the barrel and extension **19** thereby preventing relative rotation of the parts. A pivoted bar or key **42** is adapted to engage the pin **41** and move it outwardly to nonlocking position as shown in Fig. 5. When the pin is in this position, a key inserted into the barrel **32** will rotate the barrel with its bar **33** releasing the lever **24** to permit it to be swung to unlocked position as shown in Fig. 5. By reason of this arrangement, an unauthorized person without a key cannot release the lever **24** for removal of the device off the barrel of the rifle.

When the lock **15** is mounted on the end of the muzzle end **37** of the rifle **30**, it is held against displacement when a bullet is fired by means of the sight **29** engaging the inner wall of the slot **28** of the lever **24** and by means of the clamping action of the extension **38**.

While I have illustrated and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claim.

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

A barrel type lock for rifles comprising a body having an open end, a closed end and a cylindrical bore from the open to the closed end, a locking extension on the body adjacent the closed end and having a longitudinal axis substantially perpendicular to the longitudinal axis

of the body, said locking extension having a locking chamber extending therethrough, said body having a clamping lever slot opening between the open end and the locking extension and spaced exhaust port openings adjacent the closed end, bullet stopping packing removably mounted in the bore of the body at the closed end of the body, a clamping lever pivotally secured at one end to the body adjacent the open end of the body, said lever having another end with a sight receiving opening, said lever being normally disposed in the clamping lever slot opening of the body, a clamping lever lock member in the locking chamber of the locking extension removably to hold the clamping lever in rifle barrel clamping position in the clamping lever slot opening of the body, said clamping lever lock member having a lateral end bar and said clamping lever having a bar slot opening slidably to receive the free end of said bar, said lock member being rotatably mounted in the locking chamber, a locking pin in the locking extension removably to hold the clamping lever lock member and locking extension in interlocking relationship, rifle barrel end stop members in the bore to

hold the muzzle of a rifle spaced from the packing in the cylindrical bore of the body, spaced rifle barrel spacing members in the cylindrical bore of the body to hold a rifle barrel spaced from the inner side walls of the cylindrical bore, and a rifle barrel holding cam extension on the locking lever to abut and bear against a rifle barrel in the bore of the body to hold the barrel between the rifle barrel spacing members and the barrel holding cam extension on the locking lever.

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