April 24, 1956 R. S. FELLER 2,742,726

GUN TRIGGER LOCK

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FIG. 1.

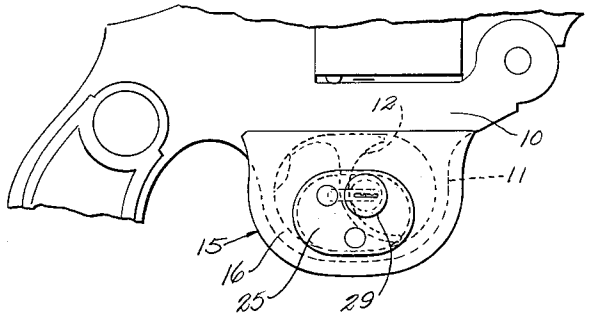


FIG. 2.

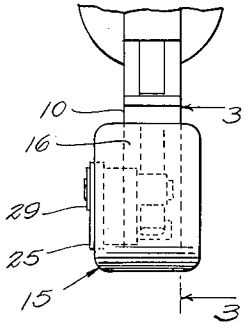
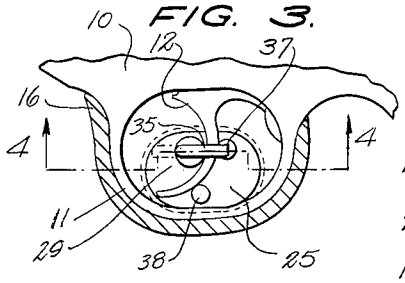


FIG. 3.



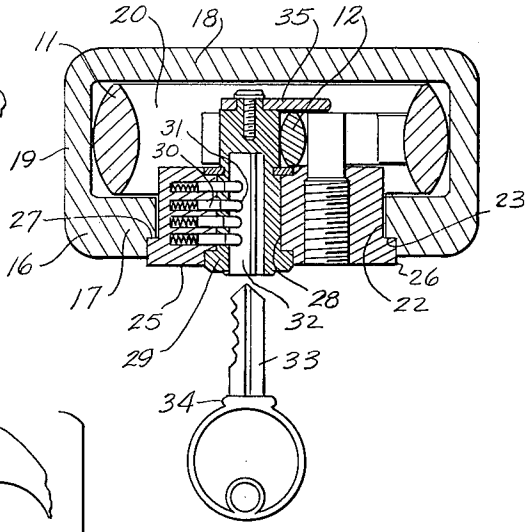


FIG. 4.

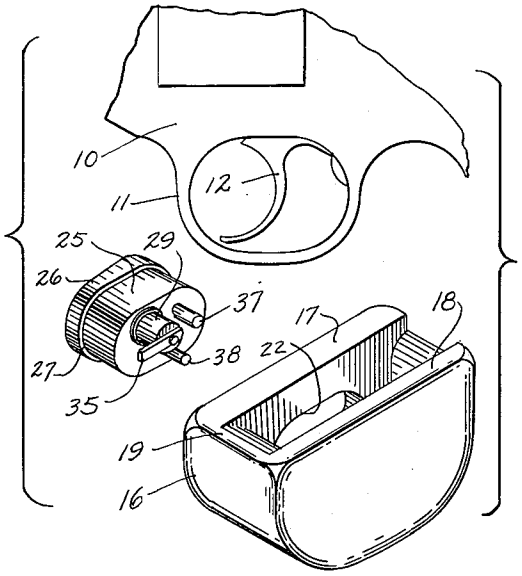


FIG. 5.

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GUN TRIGGER LOCK

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2 Claims. (Cl. 42—70)

This invention relates to gun trigger locks and more particularly to a lock device which can be detachably locked to a trigger guard to completely cover the associated trigger and preclude firing of the gun while the lock device is in place.

It is among the objects of the invention to provide an improved gun trigger locking device which can be releasably locked to a gun trigger and associated trigger guard by a key operated lock and positively precludes movement of the trigger and firing of the gun while the locking device is operatively locked onto the associated trigger guard; which completely encloses the trigger and trigger guard and cannot be removed by any practical means from the trigger guard without the use of the corresponding key; which does not interfere in any way with the carrying or storage of the gun and provides for the carrying of a loaded gun with complete safety; and which is simple and durable in construction, reliable in use and neat and attractive in appearance.

Other objects and advantages will become apparent from a consideration of the following description and the appended claims in conjunction with the accompanying drawing wherein:

Figure 1 is a side elevational view of a fragmentary portion of a firearm with a trigger locking device illustrative of the invention secured to the firearm in trigger locking relationship;

Figure 2 is a front elevational view of the locking device and associated portion of the gun as illustrated in Figure 1;

Figure 3 is a fragmentary cross-sectional view on the line 3—3 of Figure 2;

Figure 4 is a cross-sectional view on an enlarged scale on the line 4—4 of Figure 3; and

Figure 5 is a perspective exploded view of the locking device with a fragmentary portion of an associated firearm shown in side elevation.

With continued reference to the drawing, the portion of the firearm illustrated includes a frame **10** having a lower edge, a trigger guard **11** of annular shape secured to the frame **10** at the lower edge of the frame and depending from the frame, and a trigger **12** mounted in and depending from the frame within the trigger guard **11**.

The locking device of the present invention is generally indicated at **15** and comprises a hollow, metal housing **16** open at one end and having spaced apart and substantially parallel front and side walls **17** and **18** each having a straight edge and a curved edge joined at its ends to the correspondingly opposite ends of the straight edge, and a side wall **19** extending around and marginally joined to the curved edges of the front and back walls of the housing, the end of the housing along the straight edges of the front and back walls being open. The chamber **20** within the housing **16** is of a size to closely receive the trigger guard **11** of the associated firearm so that the housing constitutes a receptacle receiving the trigger guard.

The front wall **17** of the housing is somewhat thicker than the rear wall **18** and is provided with an opening **22** therein of generally elliptical shape. The front wall **17** is grooved or rabbeted around the outer end of the opening **22** to provide inwardly of the outer surface of the front wall **17** an annular shoulder **23** in the opening **22**.

A lock barrel **25**, also of elliptical shape, is releasably received in the opening **22** and has at one end thereof an outwardly projecting, annular rib or flange **26** providing at the inner side thereof an annular shoulder **27** which engages with the shoulder **23** in the opening **22** to limit movement of the lock barrel inwardly of the opening **22**. The lock barrel has a length that is somewhat greater than the thickness of the front wall **17** of the housing and is provided with an aperture **28** extending therethrough and rotatably receiving a lock cylinder **29**. The lock barrel is provided with spring pressed pin tumblers **30** and the barrel is provided with complementary tumblers **31** and with a key slot **32** which receives the shank **33** of a key **34** which key is effective to align the pin tumblers in the lock barrel and the lock cylinder and rotates the cylinder in the barrel.

The cylinder **29** projects inwardly of the barrel **25** perpendicular to the inner surface of the barrel and, when the housing **16** receives the trigger guard **11** and the lock barrel **25** is positioned in the opening **22** in the front wall of the housing, the end portion of the lock cylinder **29** projecting inwardly of the inner side of the lock barrel extends partly across the space **20** within the housing and bears against the front side of the trigger **12**. An arm **35** is mounted on the inner end of the cylinder **29** and projects radially from the cylinder for engagement with the side edge of the trigger **12** remote from the front wall **17** of the housing **16**, as illustrated in Figure 4, when the lock cylinder is in one rotational position in the lock barrel corresponding to the locked position of the device, to preclude withdrawal of the lock barrel **25** from the opening **22** in the housing front wall **17**.

Pins **37** and **38** are secured in the lock barrel **25** at locations spaced from the lock cylinder **29** and from each other and project perpendicularly from the inner side of the lock barrel partly across the space within the housing **16** when the locking device is operatively mounted on the trigger guard of an associated firearm and these pins engage the rear side or face of the trigger **12** opposite the front face engaged by the lock cylinder **29** at locations spaced apart along the rear side or face of the trigger so that the pins **37** and **38** together with the lock cylinder **29** positively hold the trigger against movement when the device is operatively locked to the firearm. The pin **38** also bears against the inner side of the trigger guard **11** at a location along the trigger guard remote from the frame **10** to positively hold the housing **16** on the trigger guard so that the lock device cannot be removed from the trigger guard and from its locking engagement with the associated trigger until the lock barrel **25** is removed from the housing **16** of the device.

The arrangement of the opening **22** in the front face of the housing and of the lock barrel **25** disposing the annular shoulders **23** and **27** inwardly of the outer surface of the front wall **17** of the housing provides a construction which renders it practically impossible to remove the lock barrel from the housing without the use of the proper key in the lock.

By completely enclosing the trigger guard and the trigger and by providing a strong abutment pin positively bearing on the trigger guard in a manner to preclude withdrawal of the housing from the trigger guard except by unlocking the lock and removing the lock barrel from the housing, a locking device is provided which effectively prevents the use of the firearm by an unauthorized person as the locking device cannot be removed from the gun by

any practical means without the use of the proper key. Also. by positively locking the trigger against movement the locking device renders the gun entirely safe to carry even though the gun is loaded.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are, therefore, intended to be embraced therein.

What is claimed is:

1. A trigger lock for a firearm having a frame, an annular trigger guard depending from the frame, and a trigger depending from the frame within the guard, comprising: a cupped, upwardly opening housing proportioned to receive the guard while engaging at its upper end against the frame, the housing having flat side walls spaced apart a distance substantially equal to the width of the guard so as to engage snugly against opposite sides of the guard, and a connecting wall extending between the side walls and shaped as a segment of an annulus for snug engagement of the connecting wall against the guard throughout their respective lengths, one of the side walls having an aperture; a lock barrel removably engaged in the aperture and extending transversely within the housing inwardly from the apertured side wall, the barrel terminating at its other end short of the other side wall; a lock cylinder rotatable in the barrel and having a portion projecting beyond the other end of the barrel but also terminating short of the other side wall of the housing, the projecting lock cylinder portion engaging at its side against one face of the trigger; a pin projecting from the other end of the barrel close to and in parallelism with the cylinder and adapted to engage the opposite face of the trigger; and an arm extending radially from and rotating with the cylinder, the arm in one position to which the cylinder rotates engaging against one side edge of the trigger to prevent movement of the barrel and cylinder laterally out of the housing, and in a second position to which the cylinder rotates shifting clear of the trigger to free the barrel and cylinder for bodily movement in said direction out of the housing, the pin and cylinder preventing movement of the trigger in a direction to discharge the firearm, the barrel being spaced closely from the connecting wall at the lower end of the housing

to engage the trigger guard between the barrel and connecting wall and thereby prevent movement of the housing and barrel downwardly out of engagement with the trigger and guard.

2. A trigger lock for a firearm having a frame, an annular trigger guard depending from the frame, and a trigger depending from the frame within the guard, comprising: a cupped, upwardly opening housing proportioned to receive the guard while engaging at its upper end against the frame, the housing having spaced side walls between which the guard is disposed and a connecting wall extending between the side walls and adapted to engage against the outer surface of the guard at a location below the trigger, one side wall having an aperture; a lock barrel removably inserted in the aperture and extending transversely within the housing inwardly from the apertured side wall, the inserted barrel engaging against the inner surface of the guard at said location to cooperate with the connecting wall in preventing movement of the housing downwardly off the guard; a lock cylinder rotatable in the barrels and having a portion projecting beyond the other end of the barrel, the projecting lock cylinder portion engaging at its side against one face of the trigger; a pin also projecting from the other end of the barrel close to and in parallelism with the cylinder to engage the opposite face of the trigger; and an arm extending radially from and rotating with the cylinder, the arm in one position to which the cylinder rotates engaging against one side edge of the trigger, said other end of the barrel engaging against the other side edge of the trigger, to prevent movement of the barrel and cylinder laterally in either direction within the housing, the arm in a second position to which the cylinder rotates shifting clear of the trigger to free the barrel and cylinder for bodily movement laterally out of the housing, the pin and cylinder preventing movement of the trigger in a direction to discharge the firearm.

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