

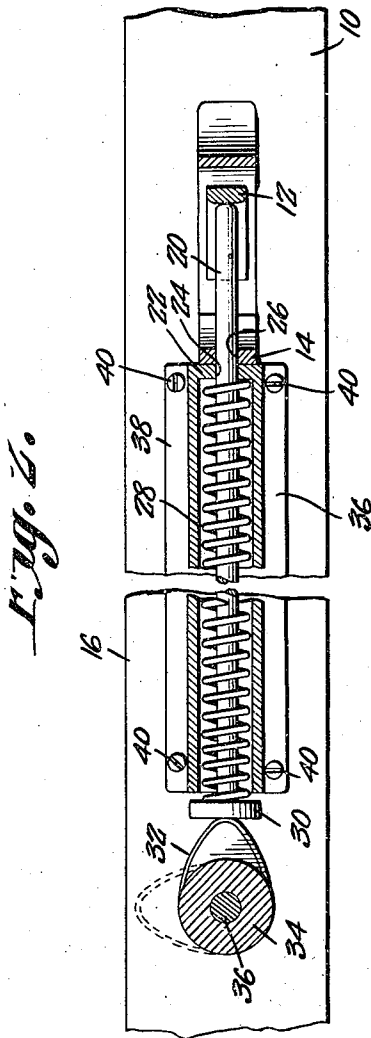
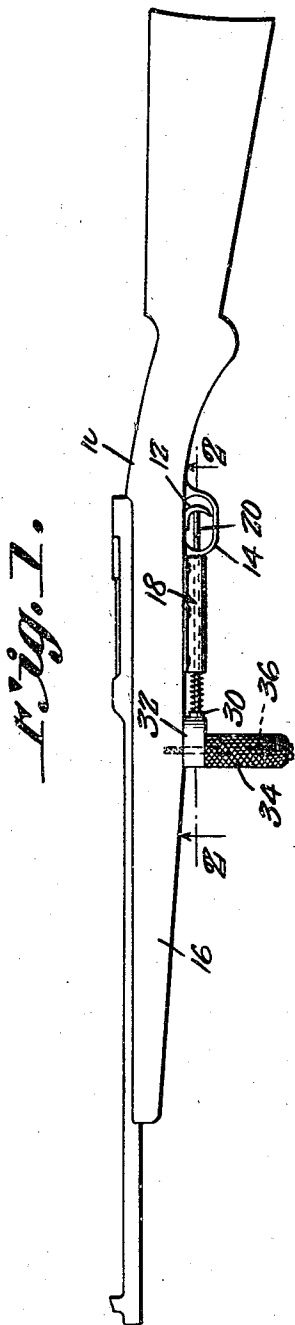
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TRIGGER ACTION

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TRIGGER ACTION

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3 Claims. (Cl. 42—69)

My invention relates to firearms, and has among its objects and advantages the provision of an improved trigger action design to facilitate manipulation thereof with a mittened hand.

In the accompanying drawing:

Figure 1 is a side view of a conventional firearm illustrating my invention applied thereto, and

Figure 2 is an enlarged sectional view taken along the line 2—2 of Figure 1.

In the embodiment of the invention selected for illustration, Figure 1 illustrates a conventional rifle 10 having the usual trigger 12 and trigger guard 14. To the bottom side of the fore part of the gun stock 16 is attached a guide 18 for a trigger actuating plunger 20. This guide includes an end wall 22 provided with an opening 24 for slidably guiding the rod 20. An opening 26 is also provided in the trigger guard 14. Inside the guide 18 is mounted a compression spring 28 having one end abutting the wall 22 and its other end engaging a flange 30 fixedly secured to the end of the rod 20 opposite the trigger 12. The flange 30 is biased against a cam 32 by reason of the spring 28, which cam is fixedly secured to a hand grip 34 rotatably mounted on a pin or bolt 36 anchored in the forepart of the gun stock 16. I prefer to arrange the pin 36 at right angles to the axis of the forepart of the gun stock.

In operation, the flange or head 30 is maintained in pressure engagement with the cam 32, with the cam normally positioned in the dotted line illustration of Figure 2. When so positioned, the rod 20 is spaced from the trigger 12 and the rod is restrained from accidental contact therewith by reason of the tension of the spring 28. Ninety degree rotation of the grip 34 rotates the cam 32 to the full line position of Figure 2 for imparting the necessary pivotal motion to the trigger 12 for firing purposes.

The grip 34 is of sufficient length and diameter to permit an effective grasp to be had thereon by a mittened hand. Figure 2 illustrates the cam 32 as being hollow for the sake of weight. Both the cam and the flange 30 are preferably formed of metal having good wear resisting properties.

The guide 18 includes two flanges 38 having face engagement with the fore part of the gun stock 16 and fixedly secured thereto by screws 40.

Without further elaboration, the foregoing will so fully illustrate my invention, that others may, by applying current knowledge, readily adapt the same for use under various conditions of service.

I claim:

1. In a firearm, the combination of a finger operated trigger, a hand grip rotatably mounted on the firearm, a cam attached to the grip, a guide attached to the firearm, a rod slidably supported by said guide, and a spring acting on said guide and said rod to bias the latter against the cam and normally hold said cam in an inoperative position, said rod being engageable with said trigger through rotation of the cam for imparting longitudinal movement to the rod.

2. In a firearm having a gun stock and a pivoted trigger designed to be pulled to fire the charge, a trigger operating mechanism comprising a pin mounted on the gun stock in advance of the trigger, a rotatable member on the pin, a cam on the rotatable member, a slidable member mounted on the gunstock between the cam and trigger in contact with the cam and trigger and actuated by the cam on rotation of said rotatable member to operate the trigger, and a spring holding the sliding member against the cam.

3. In a firearm having a gunstock, a pivoted trigger, and a trigger guard formed with an opening in the front part thereof, a trigger operating mechanism comprising a pin mounted on the gunstock in advance of the trigger, a rotatable member on the pin, a cam on the rotatable member, a slidable rod in contact with the cam and extending through the opening in the trigger guard in contact with the trigger to actuate the trigger on rotation of the rotatable member and cam, a guide and support for said rod mounted on the gunstock, and a spring in the guide and support and disposed about the rod for holding the rod against the cam.

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