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M. H. COLLEY

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TRIGGER CONVERSION DEVICE FOR RIFLES

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Fig. 1.

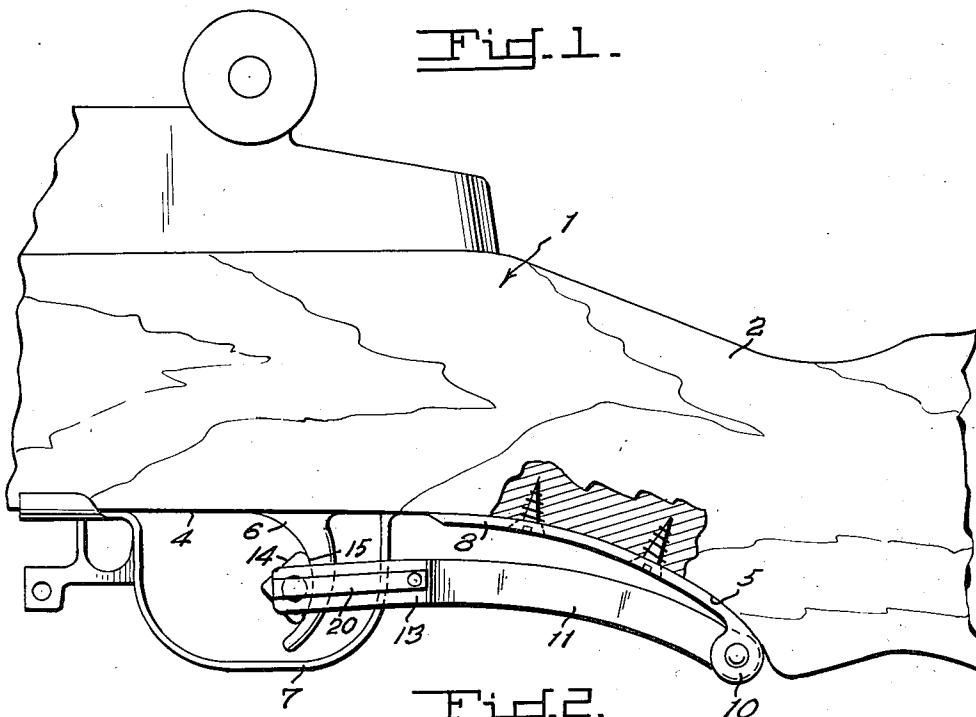


Fig. 2.

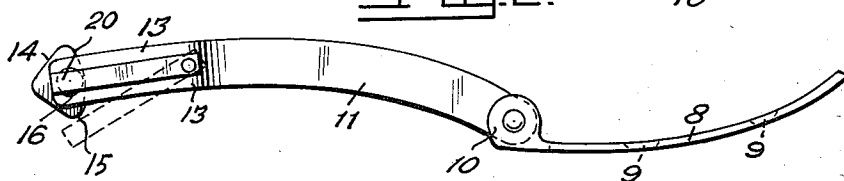
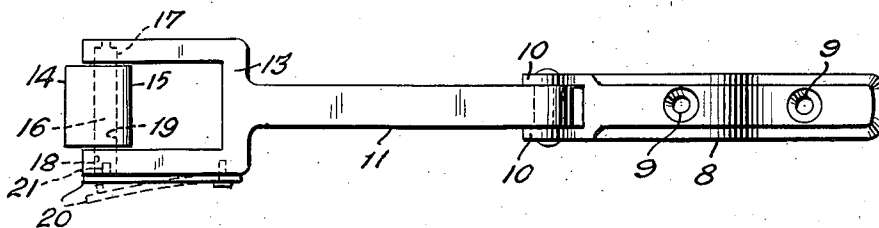


Fig. 3.



Inventor

Martin H. Colley

By *G. J. Kessenich + J. H. Church*
Attorneys

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TRIGGER CONVERSION DEVICE FOR RIFLES

Martin H. Colley, Big Delta, Territory of Alaska,
assignor to the United States of America as
represented by the Secretary of the Army

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4 Claims. (Cl. 42—69)

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amended April 30, 1928; 370 O. G. 757)

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The invention described herein may be manufactured by or for the Government for governmental purposes without the payment of any royalty thereon.

This invention relates to rifles and more specifically to a trigger conversion device to permit firing of a rifle under any climatic condition.

An object of this invention is to provide a rifle with a manually operated device which will enable an individual wearing heavy artic mittens or the like to fire the rifle without first having to remove the mittens.

In many instances, particularly in theaters of war, it has been found necessary either due to inclement weather or assignment requirements to wear heavy mittens or other hand gear which would prohibit engagement of the individual's finger with the trigger of the rifle until the mittens or gear was first removed. My invention referred to herein as a trigger conversion will enable the individual to fire a rifle without having to remove his mittens or other hand gear.

The specific nature of the invention as well as other objects and advantages thereof will clearly appear from the following description and accompanying drawings in which:

Figure 1 is a view in elevation showing the device assembled to the rifle stock and trigger.

Figure 2 is a view in elevation of the device.

Figure 3 is a plan view of the device.

Referring now to the drawings by characters of reference there is shown in Figure 1 a fragmentary view of a rifle stock in elevation and generally indicated by the reference character 1 and having a grip portion 2. Positioned on the underside 4 of the stock and forwardly of the arch 5 of the grip member is a trigger 6 and trigger guard 7 of the rifle. The trigger conversion device comprises a curved arm 8 perforated as at 9 and having ears 10 at one end for pivotally supporting a lever arm 11. The arm 11 opposite its pivoted end has formed thereon a yoke 13 supporting a pivotal trigger engaging block 14. The block is substantially triangular in cross section and has its base 15 curved to conform with the curvature of the trigger 6. A pin 16 having its ends received in apertures 17 and 18 in the arms of the yoke 13 and passing through an aperture 19 in the block supports the block between the arms of the yoke.

A spring detent 20 pivoted in one arm of the yoke engages a recess 21 in one end of the pin 19 and retains the pin in engagement with the

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yoke and block until such time as it may be desirable to assemble or disassemble the device to the rifle-stock. As shown in Figure 1 the arm 8 is fastened to the curved portion of the grip by any suitable means such as wood screws passing through the perforations 9 into the stock and firmly attaching the arm to the stock. The arm 11 is then swung upward until the yoke embraces the trigger guard and is held in that position while the trigger block is placed against the trigger and its aperture aligned with the apertures in the yoke and a block pin positioned in said apertures, the pin rotatably retaining said block in said yoke and in engagement with the trigger. The spring detent 20 is then swung into position to engage the recess 21 and thereby hold the block in assembled relationship to the yoke and trigger. As can be easily seen to fire the rifle it only becomes necessary to grasp the grip of the stock and the pivoted arm, and force the arm upward to cause the trigger to rotate about its pivot.

I claim:

1. In a rifle provided with a shoulder stock having a hand grip formed therein adjacent the trigger of said rifle, said trigger projecting downwardly from the underside of said stock and surrounded by a trigger guard, a trigger conversion device comprising a pair of pivoted arms, one of said arms fastened to the underside of said grip and formed at one end with a pair of ears pivotally supporting the rear end of a second arm, the forward end of said second arm terminating in a yoke embracing said trigger and guard, said yoke being perforated adjacent its free ends, a trigger engaging block, a pin pivotally supporting said trigger engaging block received in said perforations, said block being triangular in cross section and having its trigger engaging base curved to conform to the shape of said trigger and in slidable engagement with said trigger.

2. The trigger conversion device as set forth in claim 1 wherein one arm of said yoke is provided with a spring detent rotatably fastened therein and in engagement with one end of said pin to permit assembly or disassembly of said block and yoke to said trigger.

3. In a rifle having a shoulder stock provided with a trigger projecting downwardly from the underside of said stock and surrounded by a trigger guard, a trigger conversion device comprising an arm, means for pivotally supporting one end of said arm at the underside of said stock for rotation in a plane parallel to the

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normally vertical, longitudinal cross section of said stock, the other end of said arm terminating in a yoke embracing said trigger and said guard, a trigger engaging block, means for removably supporting said trigger engaging block in said yoke in operative engagement with said trigger at its side remote from said first-mentioned means, said trigger being cammed into firing movement by said block in response to a force applied to said arm to move the same toward the underside of said stock.

4. In a rifle having a shoulder stock provided with a trigger projecting downwardly from the underside of said stock and surrounded by a trigger guard, a trigger conversion device comprising an arm, means for pivotally supporting one end of said arm at the underside of said stock for rotation in a plane parallel to the normally vertical longitudinal cross section of said stock, the other end of said arm terminating in a yoke embracing said trigger and said guard, and trigger engaging means removably sup-

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ported in said yoke for operative engagement with said trigger at its side remote from said first mentioned means, said trigger being cammed into firing movement by said trigger engaging means in response to a force applied to said arm in the normally vertical direction.

MARTIN H. COLLEY.

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