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SUPPLEMENTAL RIFLE CHAMBER

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Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

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This invention relates to a supplemental rifle chamber and has for its primary object, the provision of a device of this character which will permit low power cartridges to be used successfully in a rifle designed for a high power cartridge, both ammunitions having the same size bullets, and which provides for economy in target shooting and the shooting of small game, allowing the person to have all of the advantages provided by a rifle designed for large caliber ammunition, without the expense attached to such ammunition.

Another object of this invention is the provision of a device of this character which may be safely used, and which will withdraw a shell or cartridge after being fired and which will operate in a rifle of the magazine type.

With these and other objects in view, the invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and the accompanying drawing, in which:

Figure 1 is a vertical sectional view illustrating a supplemental rifle chamber having therein a cartridge of a small caliber.

Figure 2 is a side elevation illustrating one of the members of the supplemental rifle chamber.

Figure 3 is a vertical sectional view illustrating another member of the supplemental rifle chamber.

Figure 4 is a transverse sectional view taken on the line 4—4 of Figure 1.

Referring in detail to the drawing, the device is indicated in its entirety by the character 5 and consists of telescopic members 6 and 7 which when assembled have an exterior shape of a shell of a high powered cartridge so as to fit a rifle of this type and its purpose is to support in the rifle a low powered cartridge 8 with the bullet 9 thereof protruding a proper distance therefrom to enter the rifle barrel as would the bullet of the cartridge of the shell designed for the rifle of that particular caliber.

The member 6 is in the form of a sleeve having an internal shoulder 10 and a reduced bore 11 to receive the cartridge 8 with the rim 12 thereof engaging the seat 16. The remaining portion of the bore of the sleeve is of a size to slidably receive a reduced portion 13 of the member 7 with a frictional grip capable of preventing the members 6 and 7 from being separated. The reduced portion of the member 7 provides in the latter an external shoulder 14 to be abutted by the end of the member 6 when the members 6 and 7 are assembled together as shown in Figure 1. The members 6 and 7 have grooves 15 to align when the members 6 and 7 are assembled together and receive therein in a spring split-type ring 16, the purpose of which is to secure the members 6 and 7 assembled together against accidental separation, but which will permit the member 7 to be withdrawn from the member 6 whenever desirable to place in the member 6 or remove therefrom the small caliber cartridge 8.

The member 7 besides having the reduced portion 13 to form the shoulder 14 is also provided with a reduced portion 17 forming a shoulder 18. A sleeve 19 is mounted on the reduced portion 17 and is secured thereto by a pin 20 fitting in openings provided in the reduced portion 17 of the member 7 and the sleeve 19. The sleeve 19 extends a limited distance beyond the end of the portion 17 and is provided with an inwardly tapered flange 21 to engage under the rim of the cartridge 8. The other end of the sleeve 19 abuts the shoulder 18.

The member 7 has extending endwise thereof a bore 22 to slidably receive an auxiliary firing pin 23. A portion of the bore 22 is slightly enlarged and one end of the firing pin 23 is enlarged to match the enlarged portion of the bore and said end is exposed through the flanged end of the member 7 and recessed to be engaged by the firing pin of the rifle. The other end of the firing pin 23 engages with the cartridge 8 and as shown in Figure 1 the bore is disposed at an angle to the longitudinal axis of the member 7 so that the firing pin 23 will contact the edge of the rim 12 of the cartridge 8. In this instance, the cartridge being of the rim fire type. However, should the cartridge be of the central cap type the bore 22 will then extend through the member 7 in alinement with the longitudinal axis thereof so that the firing pin 23 will be brought into engagement with the central portion of the cap of the cartridge 8. The firing pin engaging end of the firing pin 23 is recessed for the purpose of preventing the firing pin of the rifle from being damaged or mutilated when striking the firing pin 23 for the purpose of exploding the cartridge 8.

From the foregoing description it will be seen that this device when assembled with a small caliber cartridge therein as shown in Figure 1, may be readily inserted within a rifle designed for a larger caliber cartridge and will...
properly fit said rifle with the bullet of the cartridge properly positioned in the bore of the rifle. Further, it will be seen that this device, due to its shape, is capable of being utilized in a rifle of the magazine type so that it can be fed through the magazine as an ordinary cartridge of the caliber designed for said rifle without danger of choking or sticking in the magazine.

To load the device, the parts 6 and 7 are separated, and the cartridge 8 is placed in the member 6 and the member 7 is then inserted to hold the cartridge 8 in proper seated position. The device is then ready for insertion into the rifle. After the firing of the cartridge 8 the entire device 5 will be ejected from the rifle in the usual way, and to again use the device for another cartridge, the members 6 and 7 are separated and as the member 7 moves out of the member 6, the fired shell is withdrawn from the member 6 due to the flange 21 of the sleeve 19 engaging with the rim 12 of the cartridge. By a slight twisting of the cartridge the latter may be easily removed from the sleeve 19 and another cartridge placed therein.

If at any time desired, the sleeve 19 may be omitted by removing the pin which will permit the sleeve 19 to be withdrawn from the member 7. The cartridge may be placed in the member 6 as usual, and the member 7 placed within the member 6, holding the cartridge in a seated position with the sleeve omitted. However, when the sleeve 19 is not employed it is necessary to use a sharp instrument to remove the cartridge after being fired from the member 6 and after the removal of the member 7 from the member 6.

It is believed that the foregoing description, when taken in connection with the drawing will fully set forth the construction and advantages of this invention to those skilled in the art to which such a device relates, so that further detailed description will not be required.

What I claim is:
1. A supplemental rifle chamber comprising a sleeve-like member providing a chamber for a low powered cartridge, a second member including a reduced portion to extend into the sleeve-like member with a slideable frictional fit and provided with a bore extending from end to end, means for releasably securing the members together, and a firing pin slideable in said bore, said second member having a second reduced portion, and a sleeve mounted on said second reduced portion of the second member and projecting beyond the end and provided with an inwardly tapered flange to engage a rim of the cartridge located in the chamber of the sleeve-like member, and a pin connecting the second member with said sleeve.
2. A supplemental rifle chamber comprising a sleeve-like member providing a chamber for a small size caliber cartridge, a second member including a reduced portion to extend into the sleeve-like member with a slideable frictional fit and provided with a bore, means for releasably securing the members together, a firing pin slideable in said bore, and a sleeve mounted on the second member and having an inwardly directed flange at one end to engage over a rim of the cartridge to extract the latter from said chamber on the separation of said members.

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