April 8, 1930. A. W. PETERS 1,753,472

CARTRIDGE ADAPTER

Filed Aug. 8, 1928

FIG. 1

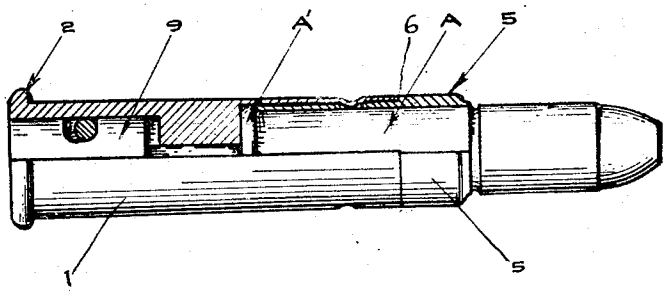


FIG. 2.

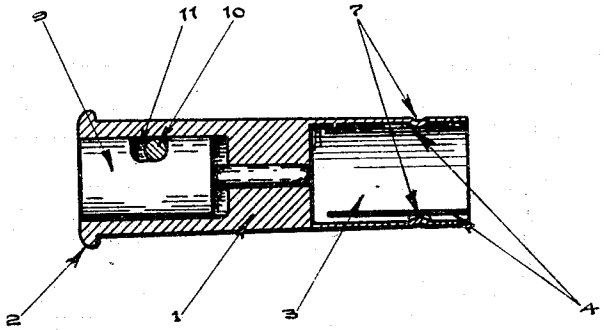
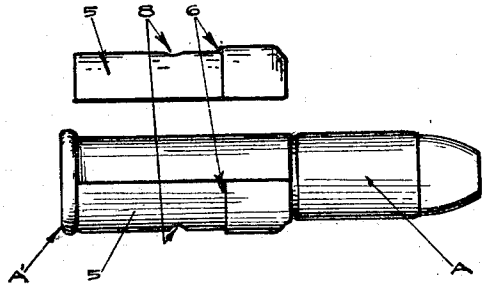


FIG. 3.



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UNITED STATES PATENT OFFICE

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CARTRIDGE ADAPTER

Application filed August 8, 1928. Serial No. 298,233.

This invention relates to a device for adapting to a high-power rifle regular factory-loaded cartridges of less power than those which the rifle is normally intended to receive.

The object of the invention is to simplify the construction of such devices and thus reduce their cost, and to facilitate the association of the cartridge with the adapter.

In the accompanying drawings,

Figure 1 is a view of an adapter embodying the features of my invention, the cartridge being shown in operative relation to the adapter.

Fig. 2 is a longitudinal sectional view of the body or major unit of the adapter.

Fig. 3 is a view of the cartridge and two semi-cylindrical members forming portions of the adapter.

The body 1 of the adapter is generally cylindrical and is adapted to be inserted into the chamber of the rifle. The body 1 is provided at its rear end with an annular rim or extractor shoulder 2. The forward end of the body 1 has a chamber 3 the peripheral wall of which is longitudinally slit as at 4, to make said wall slightly yielding.

The cartridge A is provided with the usual rim or extractor flange A′. The chamber 3 is of sufficient diameter to admit the cartridge rim first, and is sufficiently deep to contain a substantial portion of the length of the cartridge. The semi-cylindrical members 5 are adapted to surround the cartridge just forward of the rim A′. The forward ends of the semi-cylindrical members 5 have an annular shoulder 6 adapted to abut against or lie close to the forward end of the adapter body 1. It will be seen that the members 5 serve to increase the over-all diameter of that portion of the cartridge which lies in the chamber 3, to the diameter of the rim A′.

In order to retain the cartridge in the chamber 3 during handling, the walls of said chamber are provided with indentations producing bosses 7 adapted to enter depressions 8 in the members 5.

As shown in Fig. 1, the diameter of the forward ends of the semi-cylindrical members 5 is the same as the diameter of the body 1 so that there shall be no space between the forward ends of the members 5 and the wall of the rifle chamber.

In the rear portion of the body is slidably mounted a firing pin 9, the forward end of which is axially alined with the cartridge A. The firing pin 9 may be attached to the body with freedom to move a limited distance by any suitable means, as, for example, a pin 10 fixed in the body 1 and lying within an elongated notch 11 in one side of the firing pin.

The manner of use is as follows: After the members 5 have been applied to the cartridge the latter is slipped into the chamber 3 and turned until the bosses 7 seat themselves in the recesses 8. The rear end of the cartridge is then in contact with the inner end wall of the chamber 3. The adapter body 1 with the cartridge in place therein is then inserted into the chamber of the rifle. The blow of the hammer is transmitted through the firing pin 9 to the percussion cap of the cartridge A. When fired the shell of the cartridge expands so that the bosses 7 cannot be disengaged from the recesses 8 until the adapter has been withdrawn from the chamber, after which a slight turn of the cartridge shell to right or left causes the bosses to spring out of the recesses and permits the fired shell to be withdrawn from the chamber 3.

It will be noted that the adapter is of very inexpensive construction, there being a minimum of machine work involved in its manufacture, and that the method of use is very simple and expeditious. The means for attaching the cartridge to the adapter is of such nature as not to be subject to deformation or serious wear.

The invention is not limited to the details herein described, as changes may be made within the scope of the appended claims. For instance, the rim 2 would not be present in an adapter for rimless cartridges.

I claim as my invention:

1. A cartridge adapter comprising a body having a chamber in its forward end, the peripheral wall of said chamber being slit to make said wall resilient, an inwardly extending boss on said wall, two semi-cylindrical

members adapted to be applied to a cartridge forwardly of the rim of the latter, said members having an annular shoulder adapted to lie close to the forward end of said body when the cartridge is inserted into said chamber, one of said members having a recess to receive said boss, and a firing pin slidably mounted in the rear end of the body.

2. A cartridge adapter comprising a body having a chamber in its forward end, two semi-cylindrical members adapted to be applied to a cartridge forwardly of the rim of the latter, said members having an annular shoulder adapted to lie close to the forward end of said body when the cartridge is inserted into said chamber, means for holding the cartridge in said chamber, and a firing pin slidably mounted in the rear end of the body.

In testimony whereof, I have hereunto affixed my signature.

ARTHUR W. PETERS.