July 7, 1964 H. M. OROZCO 3,139,827

TYPE OF CARTRIDGE FOR FIRE WEAPONS

Filed Nov. 21, 1962 2 Sheets-Sheet 1

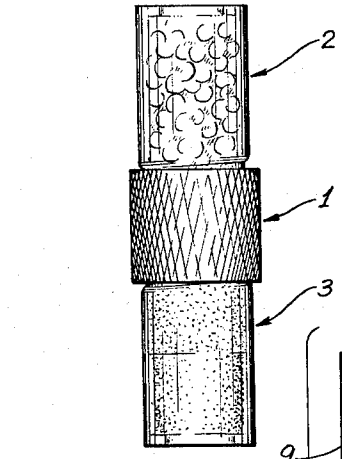


Fig. 1.

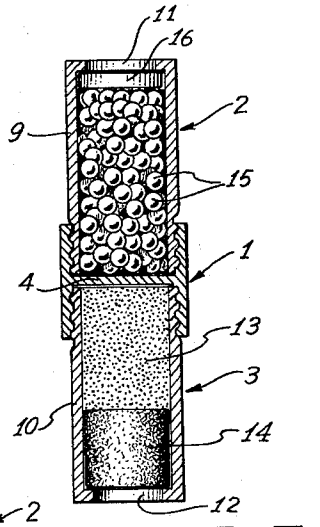


Fig. 2.

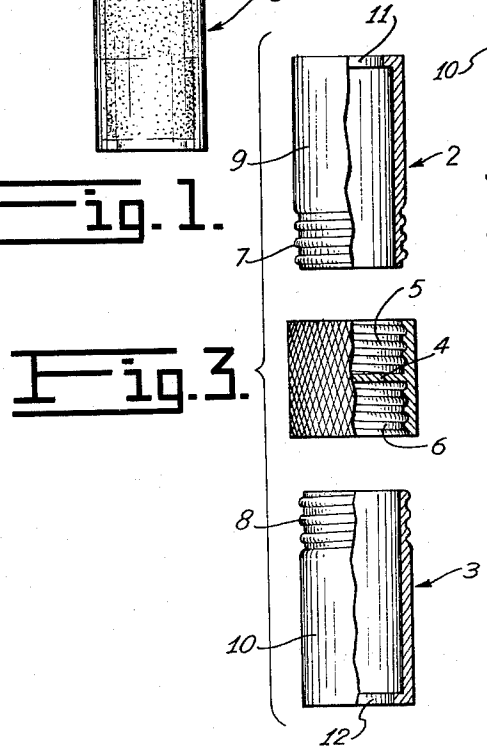


Fig. 3.

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TYPE OF CARTRIDGE FOR FIRE WEAPONS

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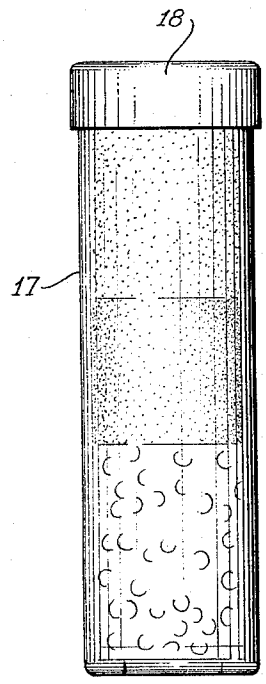


Fig. 4.

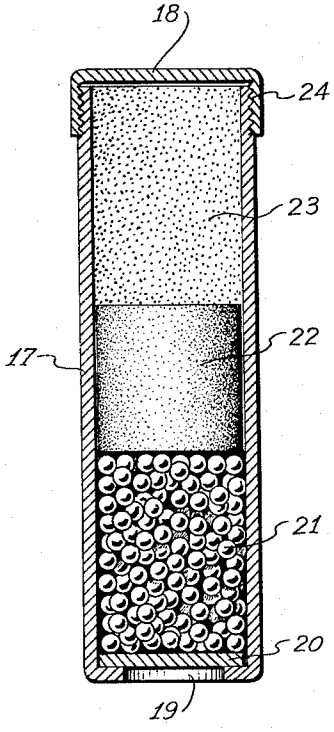


Fig. 5.

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3,139,827

TYPE OF CARTRIDGE FOR FIRE WEAPONS

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3 Claims. (Cl. 102—38)

The present invention refers to a new type of cartridge for fire weapons and more particularly is related to a cartridge suitable to be used to charge muzzle loading weapons.

It is a well known fact that muzzle loading weapons (which are still broadly used by sportsmen) are very bothering because of the fact that they require a complicated and bulky set of accessories to be carried by the user in order to enable him to perform loading thereof. That is, when a muzzle weapon is used, the user must carry with him at least a horn or a can filled with powder, and a bag or the like to carry shots (one for each size of shot) and plugs. The loading operation is rather time consuming and difficult to be performed and sometimes the sportsman is discouraged by the troubles encountered in the use of a weapon of this type.

Therefore, it is an object of the present invention to provide a new type of cartridge which can be used for carrying a complete load of the muzzle gun, which load can be very easily poured into the gun by just unscrewing a specially designed cap in order to expose the loading materials (powder, plugs and lead shots) and arrange them to be rammed into the gun without the need of pouring each one of said materials separately from individual bulk containers therefor.

Another object of the present invention is to provide a cartridge of the character above described, which is made from a suitable transparent plastic in order to enable the user to see the contents thereof, enabling him to select the proper size of lead shots to be used.

One additional object of the present invention is to provide a cartridge of the above mentioned character, which is of a very simple construction and which can be refilled for any practical purpose as infinite number of times.

Other and additional objects and advantages of the invention will be obvious or will appear later as the specification of the preferred embodiments thereof proceed, taken in connection with the accompanying drawings wherein:

FIGURE 1 is an elevational view of the cartridge for loading muzzle loading weapons according to the teachings of the invention;

FIGURE 2 is a cross sectional elevational view of the cartridge of FIGURE 1, showing the contents thereof and the particular location of all the materials of the charge;

FIGURE 3 is an exploded partially cross sectional elevational view of the cartridge of FIGURE 1 and 2, showing the three pieces from which it is made;

FIGURE 4 is an elevational view of another embodiment of the cartridge according to the invention; and

FIGURE 5 is a cross sectional elevational view of the cartridge of FIGURE 4.

Referring now more particularly to the drawings, and specially to FIGURES 1 to 3 thereof, there is shown a cartridge suitable for loading muzzle loading weapons, and consisting of double threaded cap **1** and cylindrical containers **2** and **3**.

Cap **1**, as is best shown in FIGURE 3 of the drawings, is of cylindrical shape and is provided with a central blind plate **4** which is located midway longitudinally of the cap. On each side of blind plate **4** there is a thread **5** and **6** respectively, each of which is respectively engaged to a complementary thread **7** and **8** provided at the open ends of containers **2** and **3**.

Containers **2** and **3** are formed of a cylindrical wall **9** or

10 which follows from the respective threads **7** and **8** and having an inwardly directed radial flange provided with a circular opening **11** and **12**, respectively.

Within container **2** a load of lead shot **15** is introduced, as best shown in FIGURE 2 of the drawings, which is held therewithin by means of a cardboard disk or plug **16** plugging opening **11**, on one side, and by means of the blind plate **4** of cap **1** on the other side.

Similarly, within container **3** a load of gun powder **13** is introduced, which is held therewithin by means of a cork or preferably a paper plug **14**, which is axially larger than plug **16** and which plugs opening **12**, and by blind plate **4** of cap **1** proper.

In order to load the gun with this cartridge, it is preferable to counterbore the end of the barrel, that is, the mouth, sufficiently to hold the mouth of the plastic container therewithin.

The loading operation is as follows:

First the container having the powder is unscrewed from cap **1** and turned on into the counterbore of the mouth of the gun barrel, pushing container **3** until it reaches to the shoulder of the counterbore (about ⅜"). The powder goes freely into the said barrel thereby flooding the percussion cap nipple firing hole. Then the cork or paper plug **14** is pushed into the barrel by the ram, and the latter is tapped several times to assure proper pressing of the powder which can be further accommodated by striking the shotgun against the floor.

Second, the container having the lead shots is unscrewed from cap **1** and turned on into the counterbore of the gunbarrel mouth in a similar way as container **3** was applied. The cardboard plug **16** is rammed into the gun barrel and the ram is slightly tapped to accommodate the charge.

The gun is now ready to be fired according to the conventional practice. Of course the percussion cap must be inserted into the nipple of the barrel, or into the hammer hole, but this does not form part of the present invention and anyone skilled in the art will understand the performance of the cartridge according to the invention.

FIGURES 4 and 5 show another embodiment of the cartridge of the present invention. This embodiment comprises a general cylindrical container **17** capped by a threaded cap **18** attached by means of threads **24**. At the bottom the container **17** is provided with a bore **19** covered by plug **20**, which holds the shots charge **21**. On the latter, a second plug **17** is located, and on plug **17**, the charge of powder **23** is introduced.

In order to load the gun, the mouth of container **17** is introduced into the counterbore of the gun barrel and the whole contents thereof are rammed into the barrel.

At it will be easily seen from the above, the cartridge of the present invention provides a very simple means of carrying all the elements which are necessary to load a muzzle loading weapons. The transparent walls of the cartridge can be provided with exterior marks in order to set the level of the powder and shot charges, if desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A cartridge suitable for carrying all the elements for loading a muzzle loading type of weapon, comprising an open ended cap having a blind plate located axially at the center of said cap, said cap having two mouths provided with threads, two containers of cylindrical shape and each having a bored bottom wall whose opening is of such diameter as to receive and pass a ram therethrough, said walls forming annular shoulders about said openings, one of said containers being loaded with a charge of powder and a thick cylindrical plug bearing against the bottom wall thereof and covering the opening provided therein, the powder charge being held within the container by means of said plug and said cap and said other of said

containers being loaded with a charge of lead shots of a preselected size and a thin plug bearing against the bottom thereof and covering the opening provided therein, the shot charge being held within said other container by means of said thin plug and said cap, whereby each one of said containers may be unscrewed from the said cap individually and emptied into a counterbore provided at the mouth of a gun barrel, the powder being loaded first, followed by said thick plug, and the shots being loaded thereafter, followed by said thin plug, the cartridge being reloadable and reuseable any desired number of times.

2. A cartridge according to claim 1, wherein the said containers are made of a plastic, unbreakable transparent material, and exterior marks are provided on the walls thereof in order to indicate the levels of loading of powder and lead shots.

3. A cartridge suitable for holding all elements necessary for loading a muzzle loading type of weapon, comprising an open ended, tubular cap having a blind plate

located axially at its center, said cap having two mouths provided with threads, two containers of cylindrical shape and each having a bored bottom wall whose opening is of such diameter as to receive and pass a ram therethrough, one of said containers being loadable with a charge of powder and a thick cylindrical plug bearing against the bottom wall thereof and covering the opening provided therein, and said other of said containers being loadable with a charge of lead and a thin plug bearing against the bottom thereof and covering the opening provided therein.

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