

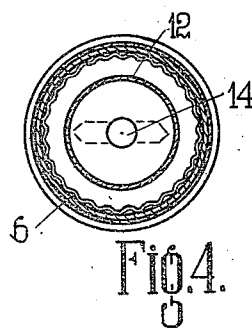
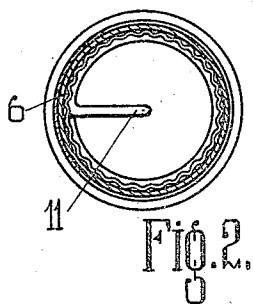
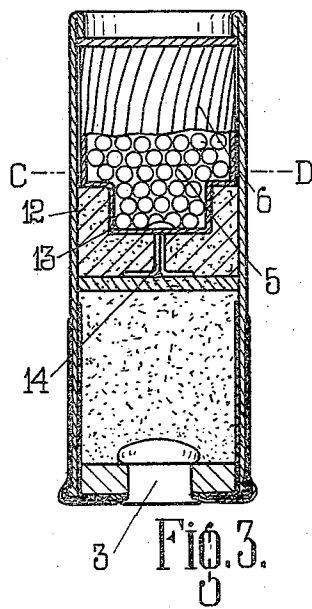
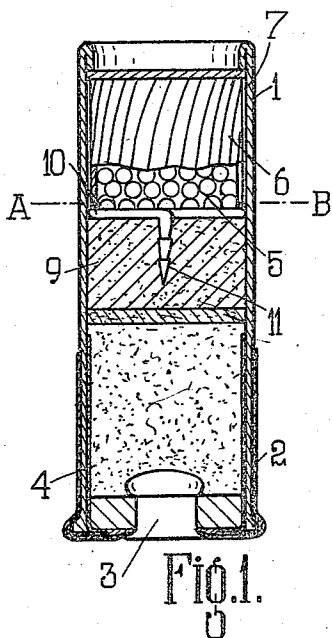
March 21, 1933.

W. EDWARDS

1,902,695

CARTRIDGE

Filed Feb. 17, 1932



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UNITED STATES PATENT OFFICE

WALTER EDWARDS, OF LUTON, ENGLAND

CARTRIDGE

Application filed February 17, 1932, Serial No. 593,613, and in Great Britain December 23, 1931.

The present invention relates to improvements in cartridges, more particularly to shot cartridges for breech loading guns.

According to the present invention, the charge of shot is held within a cup or shell which may be formed of paper, parchment, papier-mâché, buckram or the like material, but is preferably however, made of corrugated metal foil which has great strength with little weight. This cup is secured on its base by gluing, riveting or by means of a wire, pin or headed staple to the usual wad of felt, cork or the like.

The invention is more particularly described with reference to the accompanying drawing in which:—

Figure 1 is a sectional elevation through a sporting cartridge according to this invention.

Figure 2 is a corresponding sectional view on the line A. B. of Figure 1.

Figure 3 is a sectional elevation of a modified form of cartridge.

Figure 4 is a sectional view on the line C. D. of Figure 1.

The sporting cartridge of the present invention consists of a cardboard shell 1 attached in the usual manner to a metal end 2 having the usual percussion cap 3 and charge of powder 4.

According to this invention, shot 5 are held within a cup or shell 6 formed of corrugated metal foil, paper parchment, papier-mâché, buckram or the like material, the corrugations preferably being spirally disposed as shown. If desired, the outer surface of the corrugations may be filled up with plastic material 7, such as stearine, tallow, or the like material to present a smooth upper surface, thereby enabling this container 6 for the shot 5 to form a gas-tight piston along the barrel of the gun, in its motion, and to serve to lubricate its passage.

The shell or container 6 is attached to the usual wad 9 in any desired manner, for instance, by means of a wire pin clip 10 having a shank 11 stapled into the wad 9.

In the construction shown in Figure 3, an increased volume is available for the shot 5

by stepping inwards the corrugated foil or the like container 6, as shown at 12, and recessing this into the wad 13 of cork, felt or the like usual material.

This construction shows a modified method of securing the corrugated metal foil shell 6 to the wad by means for instance, of a two-armed rivet 14.

I declare that what I claim is:—

1. A sporting cartridge comprising in combination an outer container, a percussion cap, a wad, loose shot, a spiral corrugated metal foil shell containing said shot and means to secure said shell directly upon said wad.

2. A sporting cartridge comprising in combination an outer container, a percussion cap, a wad, loose shot, a light corrugated shell containing said shot, and means to secure said shell directly upon said wad, and a solid lubricant completing the cylindrical external contour of said corrugated shell.

3. A sporting cartridge comprising in combination an outer container, a percussion cap, a recessed wad, loose shot, a light corrugated metal foil shell containing the shot, and extending into the recess in the wad, and means to connect said shell directly upon said wad in the base of said recess.

4. As an article of manufacture, a temporary shell for the storage of sporting cartridge shot consisting of an open envelope of spirally corrugated metal foil.

In witness whereof, I have hereunto signed my name this 25th day of January, 1932.

WALTER EDWARDS.