

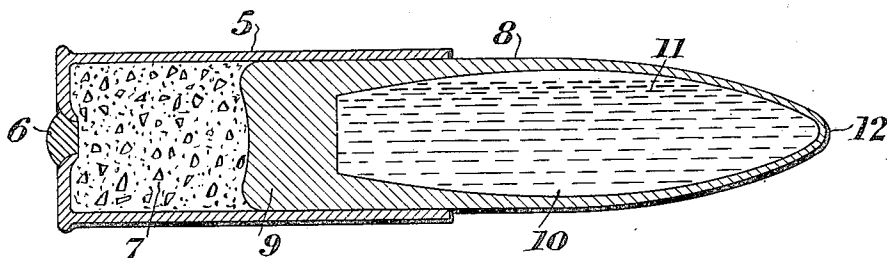
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1,517,554

G. S. FULCHER

AMMUNITION

Filed March 17, 1923



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AMMUNITION.

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To all whom it may concern:

Be it known that I, GORDON S. FULCHER, a citizen of the United States, residing at Corning, in the county of Steuben and State of New York, have invented new and useful Improvements in Ammunition, of which the following is a specification.

This invention relates to ammunition of the kind used in fire arms, such as revolvers or the like.

The purpose of the invention is to provide a cartridge having a shell, in which is contained a suitable concentrated volatile liquid that will render a burglar or hold-up man temporarily helpless and incapable of doing harm, such shell being so designed that it will be as effective for defense purposes as a lead bullet, and yet be much less dangerous to bystanders or others.

In order to make my invention more clear, I refer to the accompanying drawing which illustrates an enlarged longitudinal section through a cartridge constructed according to the preferred embodiment of my invention.

I utilize an ordinary cartridge 5, having a percussion cap 6, said cartridge containing a suitable quantity of explosive 7 and carrying a shell 8.

The cartridge may be made in any of the standard sizes now in general use, although a special size can be used if so desired. Sufficient explosive 7 is used to give the shell 8 the necessary range to insure reasonable accuracy at close quarters without causing the speed of the shell to be great enough to enable it to penetrate into a body to any dangerous extent.

The shell 8, can be made of a suitable plastic material such as gelatin, celluloid, cellulose acetate, or the like. The rear portion of the shell is made into a solid base 9 which is formed thick enough to permit the necessary acceleration of the shell by the explosive, while the front portion of the shell is hollowed to provide a container 10 for a suitable liquid 11, and the tip end or nose 12 of the shell is preferably rounded and formed comparatively thin so as to break easily when the shell hits a body, and

thus scatter the liquid 11 over and around the person.

The liquid 11 should be of a volatile character so that when the fumes come into contact with a person's eyes, nose, or lungs, in sufficient concentration they will render the person helpless by causing weeping, sneezing, vomiting, or by making him unconscious, or otherwise temporarily incapacitated. I have found that benzyl bromide, bromo-acetone, chloroacetone, chloromethyl-chloroformate (palite), diphenyl-chloroarsine or phenyl-carbylamine chloride, are satisfactory for the purpose had in view. However, it is to be understood that any other suitable liquid besides those above-named may be used.

The thickness and dimensions of the shell and the amount of liquid needed is immaterial. However, for all practical purposes a small size, say .22 cartridge, will be large enough, and a very light revolver will be heavy enough to meet average conditions.

Having thus described my invention, what I claim is:—

1. A device of the class described comprising a cylindrical shell formed of gelatin, said shell having an elongated chamber formed therein and containing a volatile fluid, the chamber being so disposed that the wall forming the front end of the shell will be comparatively thin, while the rear portion of the shell will be comparatively thick.

2. A device of the class described comprising a cartridge provided with a percussion cap and an explosive, and a cylindrical shell formed of gelatin mounted in said cartridge and adapted to be projected by said explosive, said shell having an elongated chamber containing a volatile fluid, the said chamber being so disposed that the wall forming the front of the shell will be comparatively thin, while the rear end portion of the shell will be comparatively thick and be enclosed by said cartridge.

In testimony whereof I hereunto sign my name this 15th day of March 1923.

GORDON S. FULCHER.