V. PAPUGA.

MULTIPLE CARTRIDGE.

APPLICATION FILED JUNE 19, 1916.

1,203,649. Patented Nov. 7, 1916.

Fig. 1.

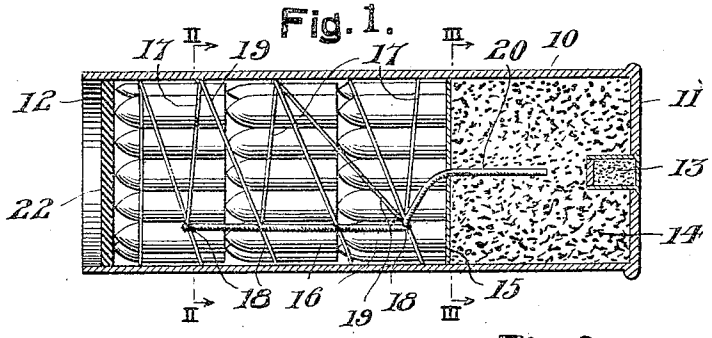


Fig. 2.

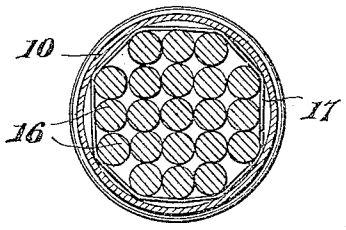


Fig. 3.

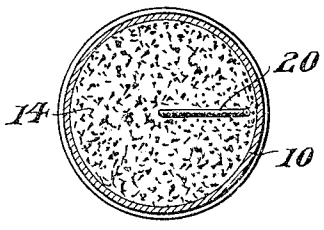


Fig. 4.

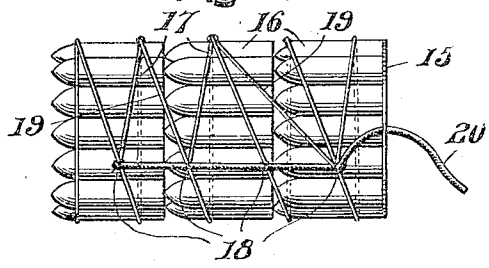
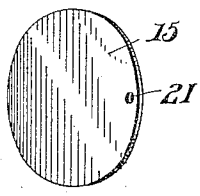


Fig. 5.



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MULTIPLE CARTRIDGE.

1,203,649. Specification of Letters Patent. Patented Nov. 7, 1916.

Application filed June 19, 1916. Serial No. 104,411.

To all whom it may concern:

Be it known that I, VASILJ PAPUGA, a subject of the King of Hungary, residing at South Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Multiple Cartridges, of which the following is a specification.

This invention relates to certain new and useful improvements in multiple cartridges.

The primary object of the device is the provision of a cartridge provided with a plurality of sets of missiles adapted to be released during the flight of the missiles through the air.

A further object of the invention is the provision of means for hurling a number of bunches of projectiles in the air, the bunches being secured together by a fusible means whereby the elements of each bunch will be successively released during its course of travel.

The invention contemplates a cartridge having a percussion cap for igniting the powder therein adjacent separate packages of projectiles positioned within the cartridge forwardly of the powder, each package of projectiles being bound together and the binding means secured by means of a fuse having its free end arranged within the powder for ignition thereby at the time of the explosion.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and then claimed.

In the drawings forming a part of this application and in which like designating characters refer to corresponding parts throughout the several views: Figure 1 is a central longitudinal sectional view through the device. Figs. 2 and 3 are transverse sectional views taken upon lines II—II and III—III of Fig. 1. Fig. 4 is a side elevation of the bundles of missiles detached, and Fig. 5 is a perspective view of the separating disk employed between the powder and the missiles.

The present cartridge includes a tubular casing or shell 10 of substantially the usual form, the same being provided with a closed end 11 and an open end 12 while a percussion member or cap 13 for exploding the cartridge is centrally arranged through the closed end 11. A suitable charge of powder 14 or other desirable explosive is arranged within the shell 11 surrounding the percussion cap 13 being packed therein and having a closing disk or wad 15 firmly seated against the outer end of the powder 14. A plurality of packages of separate elongated bullets or projectiles 16 are bundled together and successively arranged within the shell 1 in advance of and engaging the disk 15. These bundles of projectiles are here shown as three in number, the plurality of projectiles forming each bundle being secured together by any convenient form of cords 17 wrapped around the projectiles, the cords being knotted at convenient points as 18 while the separate bundles are connected together by similar connecting cords 19.

The three bundles of projectiles secured together as illustrated in Figs. 1 and 4 of the drawing are in contact with each other and are arranged within the shell 10 engaging the disk 15 while a fuse 20 connects the aforementioned knots 18 together and has its free end extending through a perforation 21 in the disk 15 and embedded within the powder 14. A closing disk or wad 22 is arranged within the outer end of the shell 10 for securing the entire charge therein against accidental displacement. The shell 10 is adapted to be fired by a breech loading ordnance, not shown, and upon exploding the percussion cap 13, the powder 14 is ignited exerting its outward pressure against the disk 15 and the projectiles 16 forcibly expelling the projectiles through the open end 12 of the shell 10, the inner or rear end of the fuse 20 having been ignited by the explosion of the powder 14. The fuse 20 burns during the travel of the bundles of projectiles through the air and when each successive one of the knots 18 is reached, the cords 17 will be burned and thereby severed, releasing the bundles of projectiles 16 which will continue their individual flight. In this manner, all of the bundles will be ejected from the shell 10 simultaneously, the separate bundles being successively released for allowing the missiles 10 of the bundles to fall upon the enemy.

What I claim as new is:—

1. A cartridge comprising a shell, an explosive positioned therein, a plurality of

missiles arranged within the shell, a securing cord surrounding the said missiles, and a fuse connecting the said cord and explosive.

2. A cartridge comprising a shell, a percussion cap in the closed end thereof, powder packed within the shell adjacent the said cap, a disk engaging the said powder and provided with a perforation therethrough, a plurality of bundles of separate projectiles successively positioned within the shell forwardly of the said disk, combustible securing means surrounding the said bundles, connecting means for the bundles attached to the said securing means, a fuse attached to the said securing means of the separate bundles and having a free end portion extending through the perforation of the said disk and arranged within the said powder, and a closing disk within the outer open end of the shell.

In testimony whereof I affix my signature.

VASILJ PAPUGA.