

(Model.)

S. NESCHDANOWSKY.

PROJECTILE.

No. 306,511.

Patented Oct. 14, 1884.

Fig: 1.

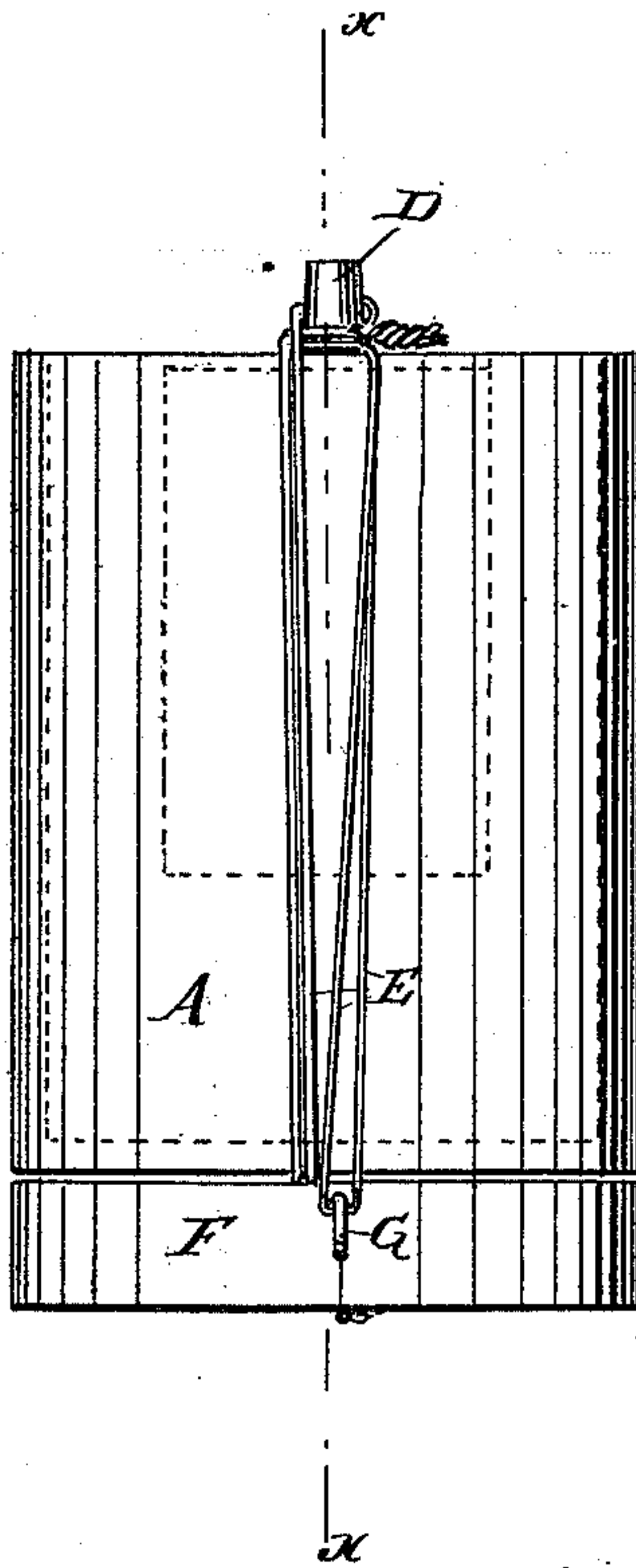


Fig: 2.

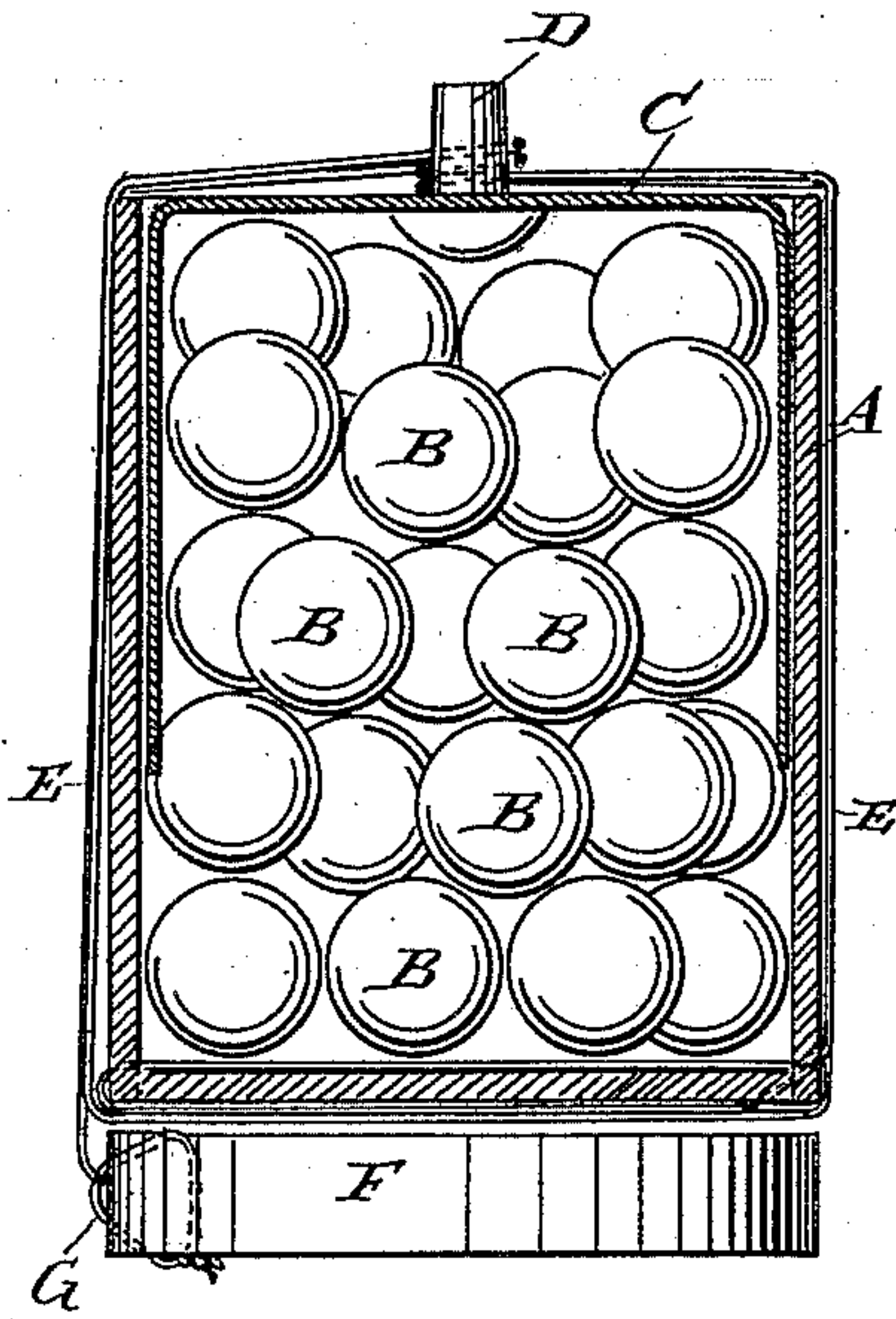


Fig: 4.

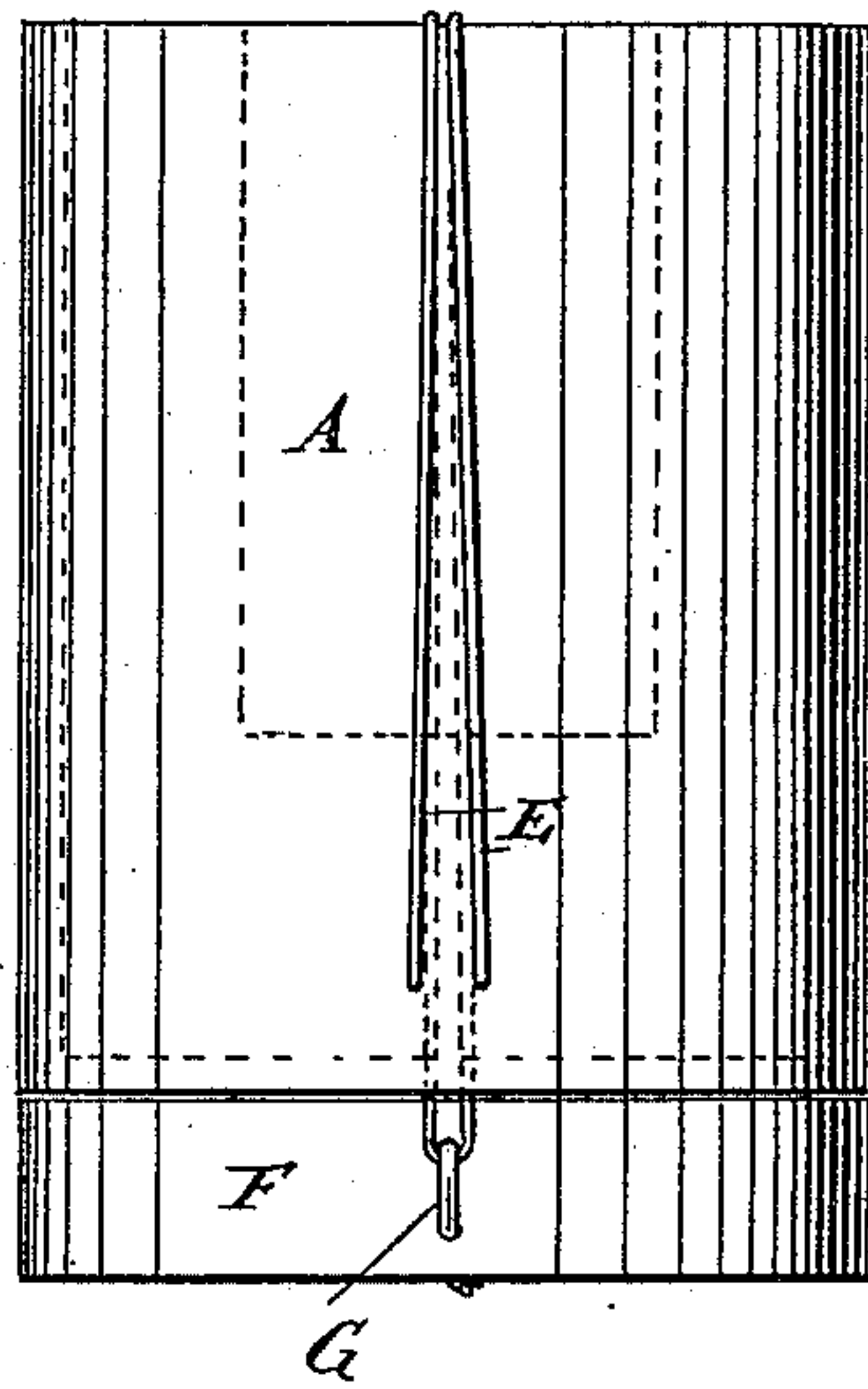


Fig: 3.

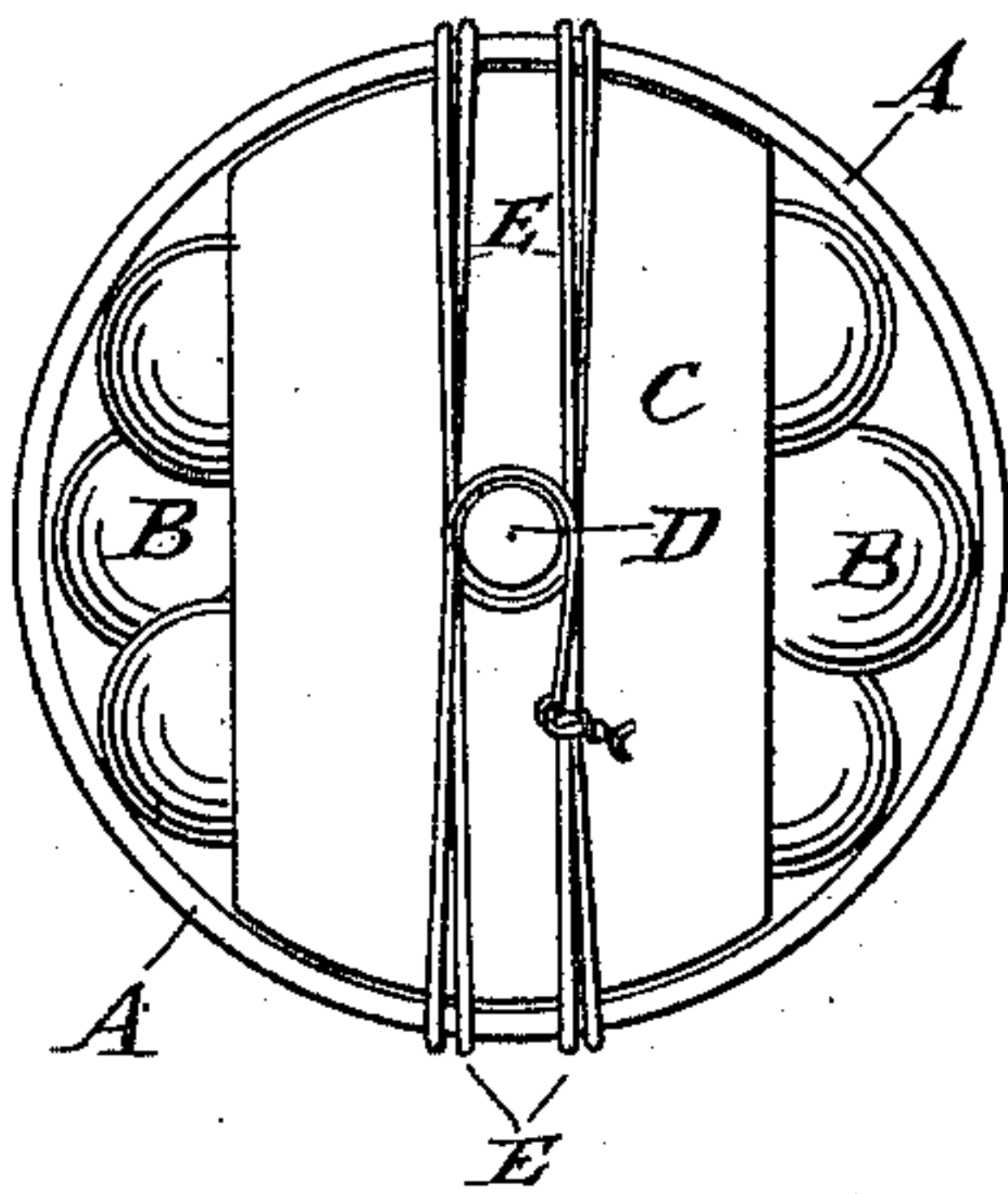
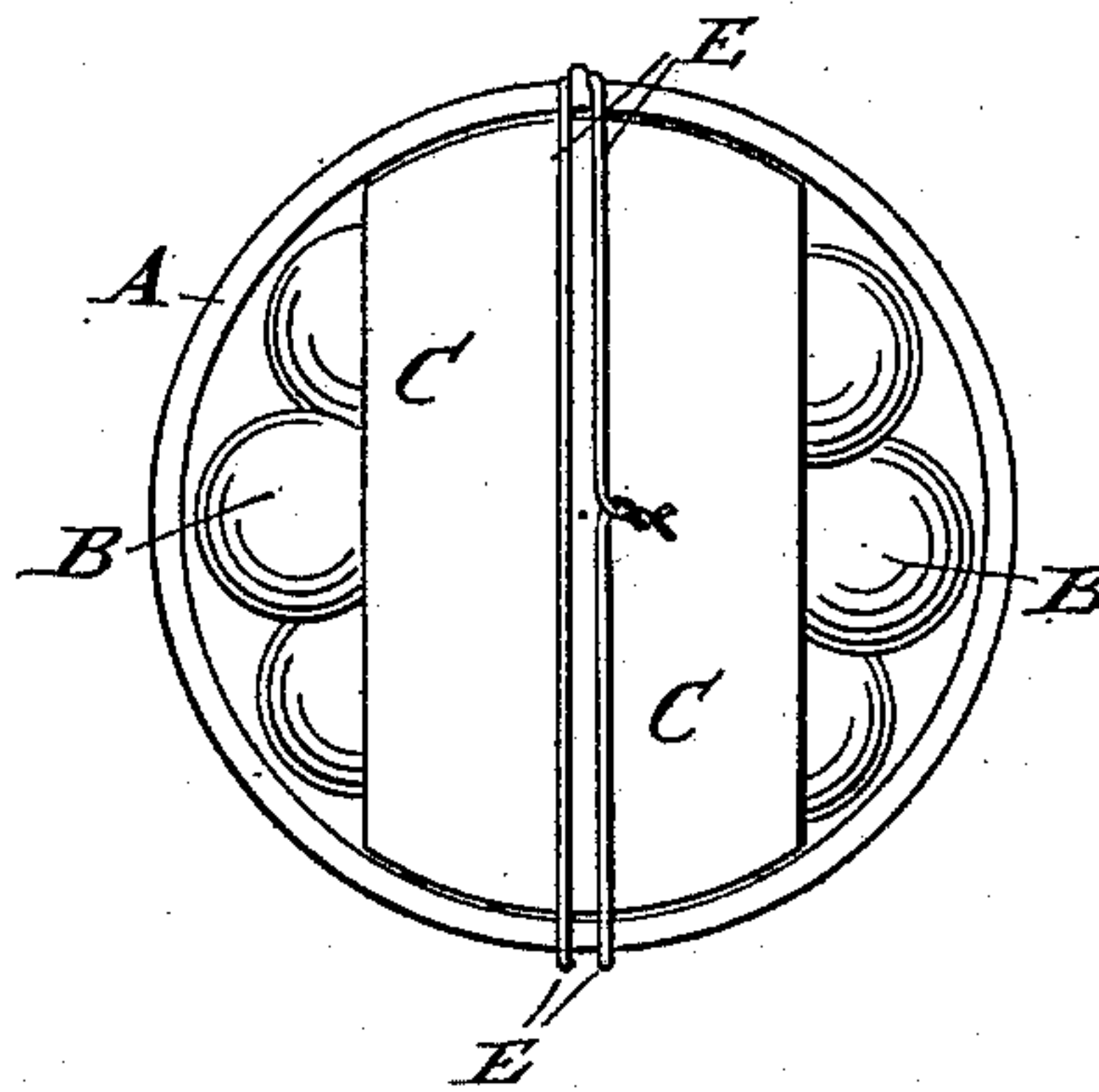


Fig: 5.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

SERGIUS NESCHDANOWSKY, OF MOSCOW, RUSSIA.

## PROJECTILE.

SPECIFICATION forming part of Letters Patent No. 306,511, dated October 14, 1884.

Application filed July 12, 1884. (Model.)

*To all whom it may concern:*

Be it known that I, SERGIUS NESCHDANOWSKY, a subject of the Emperor of Russia, and residing at Moscow, Russia, have invented new and useful Improvements in Projectiles, of which the following is a specification.

The object of my invention is to provide a new and improved projectile for smooth-bore guns—such as sporting-guns—the said projectile containing shot or other like missiles, which are liberated from the shell when desired.

The invention consists in a shell containing shot or other missiles held in the shell by metal strips and a wire wound around the shell longitudinally and holding a wad or other light body to one end of the shell, which light body unwinds the wire when the projectile is fired, and thus liberates the shot or other missiles in the shell.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an elevation of my improved projectile for smooth-bore guns. Fig. 2 is a cross-sectional elevation of the same on the line *x x*, Fig. 1. Fig. 3 is a plan view of the same. Fig. 4 is an elevation of a modification. Fig. 5 is a plan view of the same.

The cylindrical shell A, made of pasteboard, metal, or other suitable material, is open at one end, and is filled with shot B or other missiles, which are confined and held in the shell by a U-shaped strip, C, of metal inserted in the open end of the shell in such a manner that it crosses the open end of the shell and the prongs project into the shell. A pin, stud, or prong, D, projects upward from the middle of the strip C. A wire, E, has one end secured in the shell at the closed end and in the outer surface, and is passed around the shell and the strip C in the direction of the length of the shell, the wire being also wound around the pin or stud D every time it is wound around the shell. The wire E is also passed through a wad, F, placed against the bottom of the shell A; or the wire E can be passed through an eye or loop, G, formed in the wad. The wad can be made of pasteboard, felt, or other suitable material, and must fit quite closely in the barrel. It is con-

nected at one point with the shell, and only by means of the wire E. If desired, the pin, stud, or prong D can be dispensed with, as shown in Figs. 4 and 5. When the projectile leaves the barrel, the shell A and wad F remain together, like one entire and whole projectile; but in a short time the wad F, being lighter than the shell, does not travel as fast as the same, and remains behind and pulls on the wire E. It pulls the wire off the peg, stud, or pin, and at the same time turns the projectile in different directions, until finally the wire E is entirely unwound and the strip C flies or is thrown out and the shot B or other missiles are liberated and thrown out. The distance the projectile is to travel before the missiles it contains are liberated is regulated by the number of times the wire E is wound around the shell, as the time between the firing of the shot and the liberating of the missiles increases with the number of times the wire is wound around the shell. The said time can thus be regulated at will by increasing or decreasing the number of turns or windings of the wire.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A projectile for smooth-bore guns, consisting of a shell containing missiles, upon which shell a wire is wound, said wire being connected to a light body and acting upon a plate, confining the contents or missiles of the shell, substantially as and for the purpose set forth.

2. A projectile for smooth-bore guns, consisting of a shell containing shot or other missiles held in the shell by a U-shaped strip of sheet metal or other material held in place by a wire wound longitudinally around the shell, substantially as herein shown and described.

3. In a projectile for smooth-bore guns, the combination, with the shell A and the missile-retaining strap or plate C, of the wire E, wound around said shell longitudinally and around a stud or pin, D, of the said plate or strap, and the wad F, held to the shell by the wire, substantially as herein shown and described.

4. In a projectile for smooth-bore guns, the combination, with the shell A, of the U-shaped strip C, the wire E, wound longitudinally around said shell and around the stud or pin

D of said strip, and the wad F, substantially as herein shown and described.

5. In a projectile for smooth-bore guns, the combination, with the shell A, of the U-shaped  
5 piece C in the same, the stud or pin D, projecting from the piece C, the wire E, and the wad F, held by the wire E to the shell, substantially as herein shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SERGIUS NESCHDANOWSKY.

Witnesses:

BOLESLAUS IUREWITSCH,  
ALEXANDER BEER.