

1,232,627.

R. VIOCH.
WIRE CUTTING PROJECTILE.
APPLICATION FILED APR. 26, 1917.

Patented July 10, 1917.
2 SHEETS—SHEET 1.

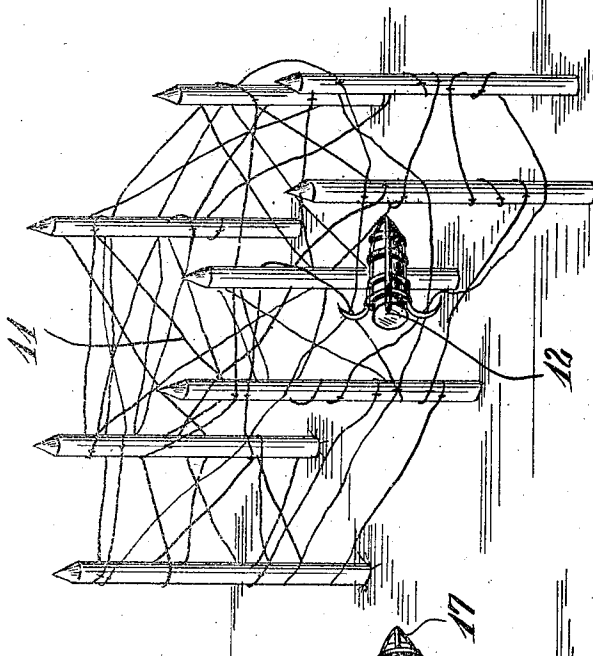
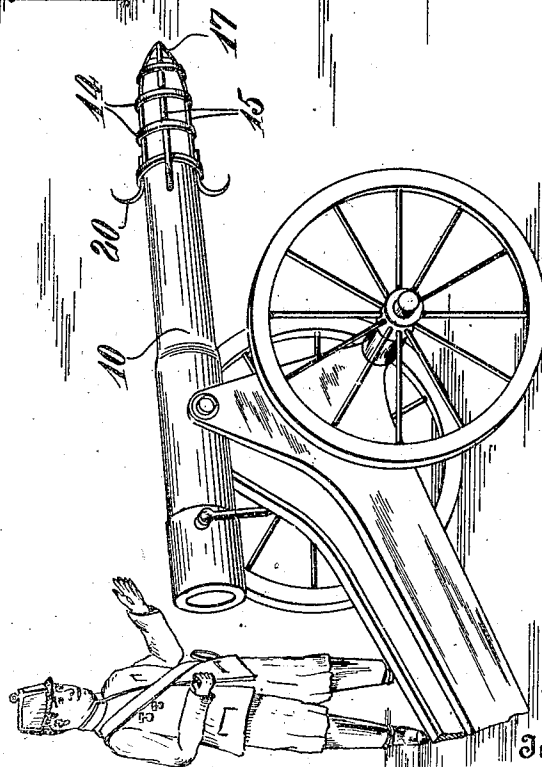


Fig. 1.



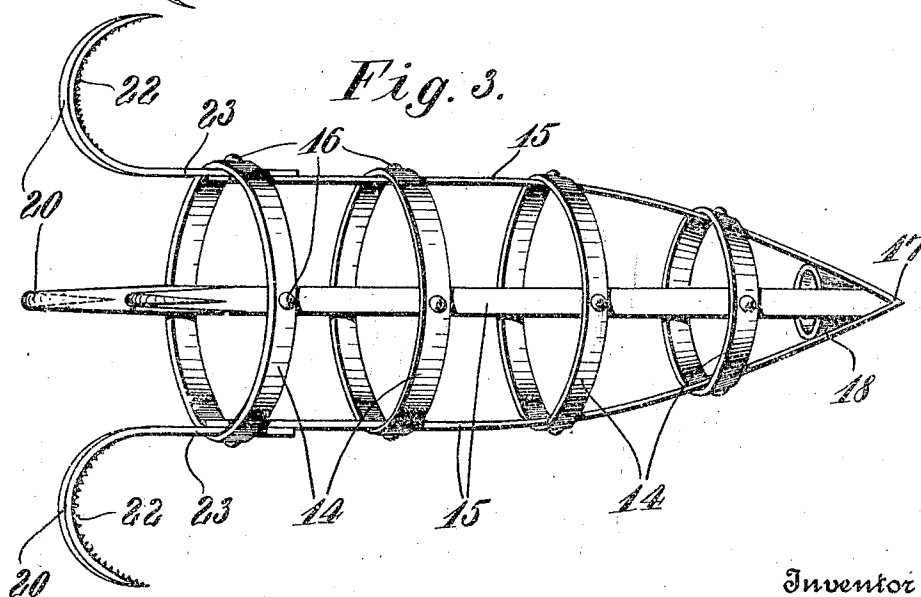
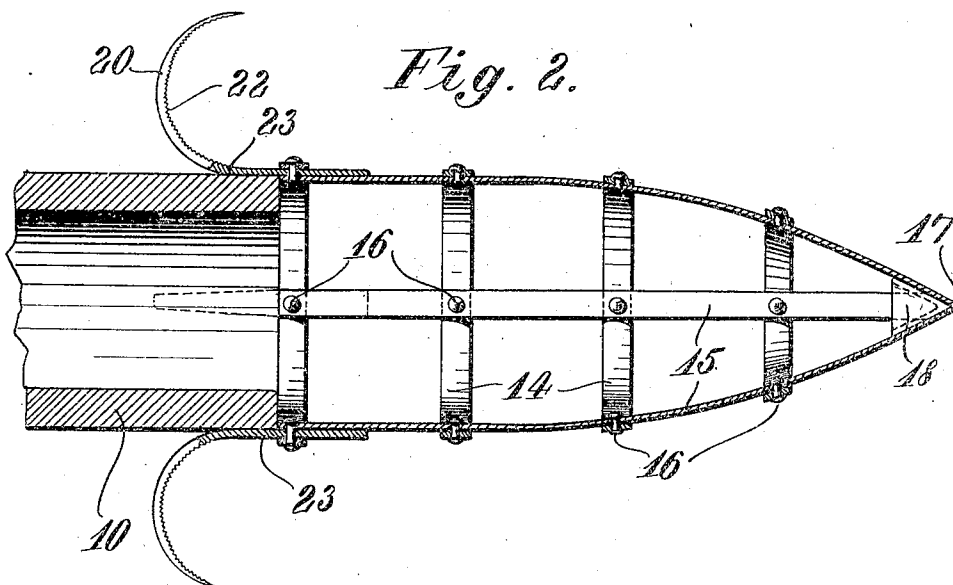
By his Attorney

Inventor
Roman Vioch.
Oscar J. Gier

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Inventor
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UNITED STATES PATENT OFFICE.

ROMAN VIOCH, OF CHICAGO, ILLINOIS.

WIRE-CUTTING PROJECTILE.

1,232,627.

Specification of Letters Patent.

Patented July 10, 1917.

Application filed April 26, 1917. Serial No. 164,643.

To all whom it may concern:

Be it known that I, ROMAN VIOCH, a citizen of the United States, resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Wire-Cutting Projectiles, of which the following is a specification.

This invention relates to improvements in projectiles, and particularly to those adapted for cutting away wire obstructions, the same acting in combination with the ordinary projectile propelled by the ordnance used.

The principal object of the invention is to provide a device adapted to be engaged with the muzzle of the gun and received upon the projectile when it is discharged, and carried by it to the point of attack, where the cutting elements are caused to engage with the wire or other entanglements, piercing, cutting and demolishing the same.

This object is attained by the novel combination of parts and processes hereafter described and shown in the accompanying drawings, forming a material part of this specification, and in which:—

Figure 1 is a perspective view of a gun, cutter, and projectile, indicating the application of the invention.

Fig. 2 is a longitudinal sectional view taken through the cutter, indicating its engagement with the muzzle of the gun, and

Fig. 3 is a perspective view of the cutter in detail.

In Fig. 1 of the drawings, the gun or cannon 10 is disclosed, as is the wire fence, obstruction or entanglement 11, and the usual projectile 12, all of which are such as are commonly used.

The invention is comprised of a hollow skeleton, partially cylindrical, partially conical, having a plurality of bands 14 of internal diameter suited to the projectile or shell 12, the bands being held in spaced relation by longitudinally disposed bars 15, any number, as four, of which may be employed, the same being bent convergingly to form a sharp, conical point 17, in which is cone seat element 18 suited to receive the

extreme point of the projectile, the bars being secured to the bands by rivets 16 as are also an equal number of hook-like wing elements 20 at the base of the skeleton frame, their outer ends being bent arcuately and provided with an interior corrugated sharp edge 22, the shanks 23 engaging resiliently with the extreme end or muzzle of the gun 10.

In operation, the gun being loaded as usual, the skeleton-cutter frame is pressed upon the muzzle, adhering by friction of the arms 20, until internal contact is made with it by the projectile 12 at the time of its discharge, causing its separation from the muzzle and carrying it to the mark, as indicated in Fig. 1.

By reason of the symmetry of the cutter, which is balanced upon a central axis, the aim and trajectory of the projectile is unaffected.

From the foregoing, it will be seen that a simple and effective device has been presented for the purpose set forth and that the same is believed to be of practical application.

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

1. In a device of the class described, the combination with a plurality of rings suited to the contour of a projectile, bars rigidly engaged at spaced intervals transversely of said ring, said bars being brought to an acute point, and a plurality of hook-like cutters engaged with said bars, said cutters having a shank engageable with the muzzle of a gun.

2. In a device of the class described, the combination with a plurality of spaced rings adapted to encircle a projectile, oppositely disposed, uniformly spaced bars secured transversely to said rings, hook-like elements secured at the base of said bars and to said rings, cutting means formed in the interior, arcuate portion of said hook elements, and means for engaging said device to the muzzle of a gun.

3. In a device of the class described, the

combination with a projectile jacket, comprising a plurality of spaced rings suited to receive the projectile, a plurality of longitudinally spaced bars secured at spaced intervals to each of said rings, a point at the apex of said converging bars adapted to receive the point of a projectile, and ar-

cuate cutter elements secured to said rings and said bars, said arcuate elements extending rearward of the spaced rings and adapted to engage with the muzzle of a gun. 13

In testimony whereof I have affixed my signature.

ROMAN VIOCH.