

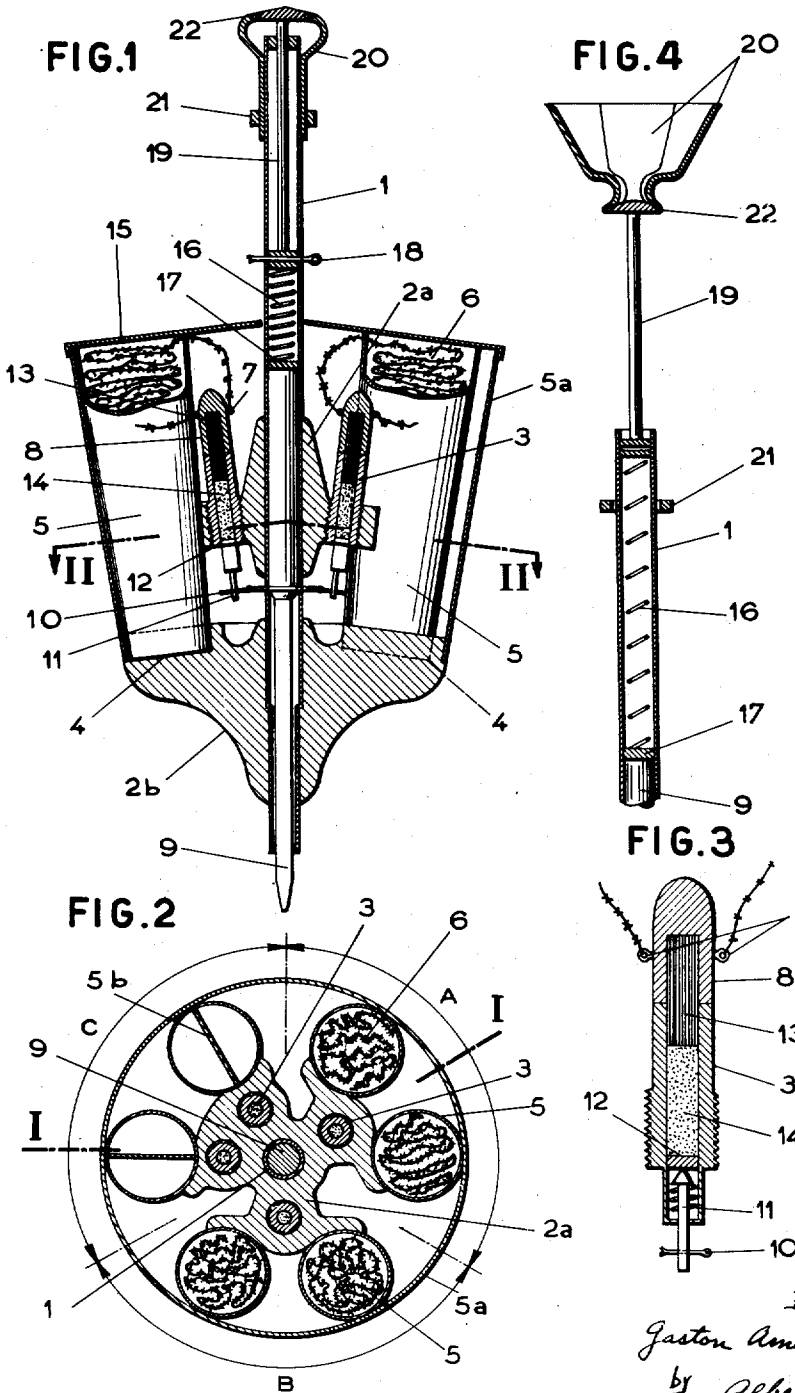
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BOMB FOR LAYING WIRE ENTANGLEMENTS

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Att.

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## BOMB FOR LAYING WIRE ENTANGLEMENTS

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4 Claims. (Cl. 102-89)

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This invention relates to an improved form of military entanglement which offers wider fields of usefulness and efficiency than have been possible with previous designs.

Several ordnance projectiles of the bolas type have been designed primarily for use against aircraft, one of said projectiles including an arrangement comprising a plurality of weights or heavy bodies which are interconnected by long cords, wires or the like, said arrangement being shot into the air in folded-up condition by means of said projectile and is unfolded in the air and placed in the path of the aircraft which is to be destroyed.

On the other side for preventing the advance of infantry, an explosive projectile was designed (U. S. Patent to Wales No. 1,228,723, filed June 5, 1917) for developing entanglements of barbed wire, said projectile comprising a stem, a chambered head on the stem carrying an explosive charge, coils of barbed wire or the like arranged on the exterior of the head, and means carried by the head adapted to project the wire therefrom when the charge is exploded. The Wales organization comprising coils of wire on the exterior of the head does not insure a correct unwinding of said coils after the explosion; further, the Wales projectiles do not hit vertically the soil and therefore all coils of wire are not used for forming entanglements because the coil or coils in contact with the soil are unserviceable.

This invention consists of a bomb or grenade for laying barbed or ordinary wire entanglements from a distance through planes or other means enabling to dispose an extensive network of barbed or ordinary wire on pieces of ground, roads, forests, trenches, etc. thereby preventing the advance of the tanks, lorries, cars, motorcycles, troops and their sheltering in the forests.

It is therefore an object of the invention to provide an explosive bomb or grenade comprising an integral case, shells inside said case, containers inside said case, barbed wire in each of said containers, one end of said wire in each of said containers being secured to said shells and the other end to said container and means for ejecting said shells, when said bomb or grenade hits the soil.

It is a further object of the invention to provide a bomb or grenade for laying barbed or ordinary wire entanglements comprising in combination a tube, a first stand around said tube, a first series of recesses in said first stand, a gun in each of said recesses in said first stand, a shell on each of said guns, a striker on each of said

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shells, a second stand, a second series of recesses in said second stand, a container in each of said recesses in said second stand, barbed or ordinary wire in said containers, one end of said wire being secured to each of said shells, and the other end to each of said containers, a case around said containers, a tubular pile inside one end of said tube and releasing said strikers when hitting the ground, a vane stabilizer axially sliding on the other end of said tube, resilient means imparting to said stabilizer an operative position and means for retaining said stabilizer in a folded condition.

The aforesaid and other objects, features and advantages of the invention will be more easily and fully understood from the illustration of one embodiment of a bomb or grenade for laying wire entanglements, according to the invention, being understood that the invention is not restricted to the details of the illustrated and described embodiment but that it is susceptible to modifications and adaptations.

In the attached drawings:

Fig. 1 represents a vertical cross-section taken along the line I—I of Fig. 2 of the novel bomb or grenade for laying barbed-wire entanglements.

Fig. 2 is a horizontal cross-section taken along the line II—II of Fig. 1.

Fig. 3 is an enlarged view of a shell carrying the barbed wire and

Fig. 4 represents a detail of the novel grenade or bomb showing the fans in operative position.

A central tube 1 carries a first stand 2a in which are secured the guns 3 and a second stand 2b in which are secured the ends 4 of the containers 5, said containers being preferably slightly tapered, so as to facilitate the unwinding of the wire 6 lodged in said containers. Ordinary or barbed wire may be used. A housing 5a may surround the containers. The ends of said wire are secured at 7 to the shells 8, which will be ejected by the guns 3, and at the bottom of the containers.

Upon hitting the ground, a tubular pile 9, axially sliding in the tube 1, releases the fuse safety-pins 10 of the strikers 11. Said strikers induce the detonation of the detonators 12 which in known manner set fire to the charge powder 13 through the relay powder 14, thereby imparting an initial velocity to the shells 8 which in their trajectory to the target open the lids 15 and unwind the wire 6 forming a network on the ground at the desired spot.

One gun may be disposed between two con-

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tainers as shown in the sectors A and B (Fig. 2) or a single container, divided in two by a partition 5b, may correspond to each gun (sector C of Fig. 3).

A spring 16 disposed inside the tube 1 and resting on a disc 17 is maintained in compression by a safety pin 18. Before throwing or dropping the grenade, the last mentioned safety pin is removed and the spring 16 pushes, through the rod 19, the vanes 20 out of the ring 21. The stabilizer formed by the vanes 20 is shown diagrammatically in the folded condition in Fig. 1 and in the unfolded or operative condition in Fig. 4, the vanes being released after passing the ring 21 and spread by bending around the axes 22.

The invention is not restricted to the specific illustrated embodiment, but is subject to modifications and adaptations which will occur to those skilled in the art, and it should be understood that protection is sought for the invention as covered by the spirit and the language of the attached claims.

What I claim is:

1. A bomb or grenade for laying barbed or ordinary wire entanglements comprising in combination a tube, a first stand around said tube, a first series of recesses in said first stand, a gun in each of said recesses in said first stand, a shell on each of said guns, a striker on each of said shells, a second stand, a second series of recesses in said second stand, a container in each of said recesses in said second stand, barbed or ordinary wire in each of said containers, one end of said wire in each of said containers being secured to said shells and the other end to said container, a pile inside one end of said tube and releasing said strikers when hitting the ground, and a case around said containers.

2. A bomb or grenade for laying barbed or ordinary wire entanglements comprising in combination a tube, a first stand around said tube, a

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first series of recesses in said first stand, a gun in each of said recesses in said first stand, a shell on each of said guns, a striker on each of said shells, a second stand, a second series of recesses in said second stand, a container in each of said recesses in said second stand, barbed or ordinary wire in each of said containers, one end of said wire in each of said containers being secured to said shells and the other end to said container, a case around said containers, a pile inside one end of said tube and releasing said strikers when hitting the ground, a vane stabilizer axially sliding on the other end of said tube, resilient means imparting to said stabilizer an operative position and a safety pin retaining said stabilizer in a folded condition.

3. A bomb as in claim 2 comprising three guns, a shell on each gun, six containers and wire in each container, each shell being connected to one end of said wire contained in two containers.

4. A bomb as in claim 2 comprising six guns, a shell on each gun, six containers, a partition dividing each container in two portions and wire in each portion of said containers, each shell being connected to one end of said wire contained in said two portions of a said container.

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