

No. 858,009.

PATENTED JUNE 25, 1907.

A. MEYER & F. N. ROGERS.

MEANS FOR PROJECTING AND ANCHORING LIFE LINES.

APPLICATION FILED NOV. 24, 1906.

Fig. 2.

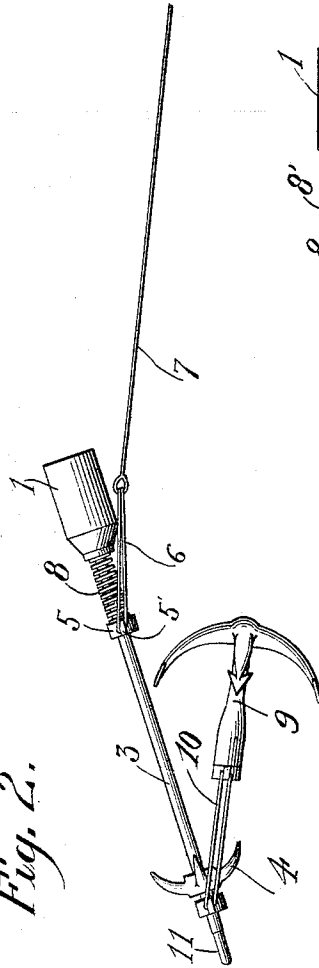


Fig. 3.

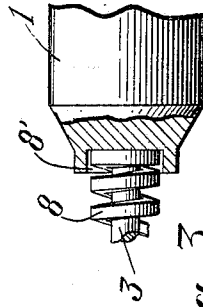


Fig. 1

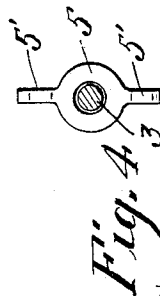
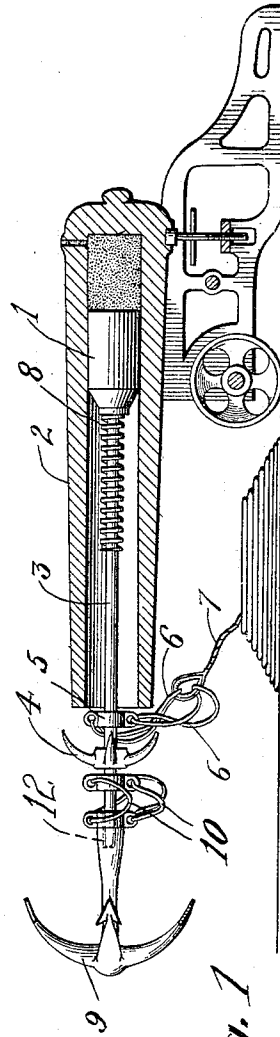


Fig. 4.

Witnesses

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334

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UNITED STATES PATENT OFFICE.

ALBERT MEYER AND FRANK N. ROGERS, OF SEATTLE, WASHINGTON.

MEANS FOR PROJECTING AND ANCHORING LIFE-LINES.

No. 858,009.

Specification of Letters Patent.

Patented June 25, 1907.

Application filed November 24, 1906. Serial No. 344,955.

To all whom it may concern:

Be it known that we, ALBERT MEYER and FRANK N. ROGERS, citizens of the United States of America, and residents of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Means for Projecting and Anchoring Life-Lines, of which the following is a specification.

Our invention has for its primary object the provision of improved means adapted for leading a life line and anchoring the same at its projected end.

Other objects will be set forth as the description progresses.

Referring now to the accompanying drawing, in which like numerals of reference indicate like parts throughout: Figure 1 shows our invention in position in a gun to be projected, the gun being shown in section. Fig. 2 is a view in side elevation showing the device in flight, and Figs. 3 and 4 are detail views.

Reference numeral 1 designates the body portion of the projectile, the same being of suitable diameter to fit the bore of a gun, as 2, employed in projecting the same, and secured to body portion 1 is a stem 3. Stem 3 projects from the gun when body portion 1 is loaded therein and is provided a suitable distance to the rear of its forward end, with prongs 4.

Reference numeral 5 designates a sliding member arranged on the stem to the rear of prongs 4 and provided with apertured ears 5' with which are engaged suitable lengths of wire rope or cable, as 6, which form the connection between the life line 7 and the projectile.

Reference numeral 8 indicates a buffer for relieving line 7 of the sudden jerk or pull to which it is subjected when the projectile is fired from the gun, said buffer as now considered, consisting of a spiral spring encircling stem 3 and having one of its end portions disposed in a seat 8' of body 1.

A weight 9 which greatly increases the chances of the life line being automatically anchored when the projectile reaches the shore, is connected by flexible means 10 to stem 3 forwardly of prongs 4. This weight is

normally supported directly on stem 3 whereby all danger of the breaking of connecting means 10, during firing of the projectile, is obviated, said stem as now considered, having its forward end portion reduced slightly at 11 to provide a rigid support adapted to be received in a socket 12 of said weight, and as said projectile descends, the weight will obviously slip from support 11 and swing by connecting means 10, (see Fig. 2), so as to assist in anchoring or making fast the projectile when it strikes the shore or the like.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent of the United States of America, is:—

1. A device of the type set forth consisting of a projectile, a weight, and a flexible connection securing said weight to the projectile, said weight being normally removably supported on the projectile and being held by said connection when it is removed from the projectile.

2. A device of the type set forth consisting of a projectile provided with a fixed support, a weight removably arranged on the support of said projectile, and flexible means secured to said weight and to said projectile, for the purpose specified.

3. A device of the type set forth consisting of a projectile, a weight removably arranged on the forward end portion thereof, and means holding said weight to the projectile when the same falls from the forward end portion thereof.

4. A projectile consisting of a body portion, a forwardly projecting stem secured thereto, a weight removably supported on the free portion of said stem, a flexible connection between said weight and stem, and a life line connected to be carried by the projectile in its flight.

5. A projectile having a forward projecting stem, a weight having a seat in which the free portion of said stem is normally fitted, a flexible connection between said weight and the projectile, said connection being of sufficient length to permit of said weight being removed from said stem, and a life line connected to be carried by the projectile in its flight.

6. A device of the type set forth consisting of a projectile, prongs on the forward end portion thereof, a weight connected to the projectile by a flexible connection, said weight being normally removably supported on said projectile in advance of said prongs, and a life line connected to be carried by the projectile in its flight.

Signed at Seattle, Washington, this 5th day of November, 1906.

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Witnesses:

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