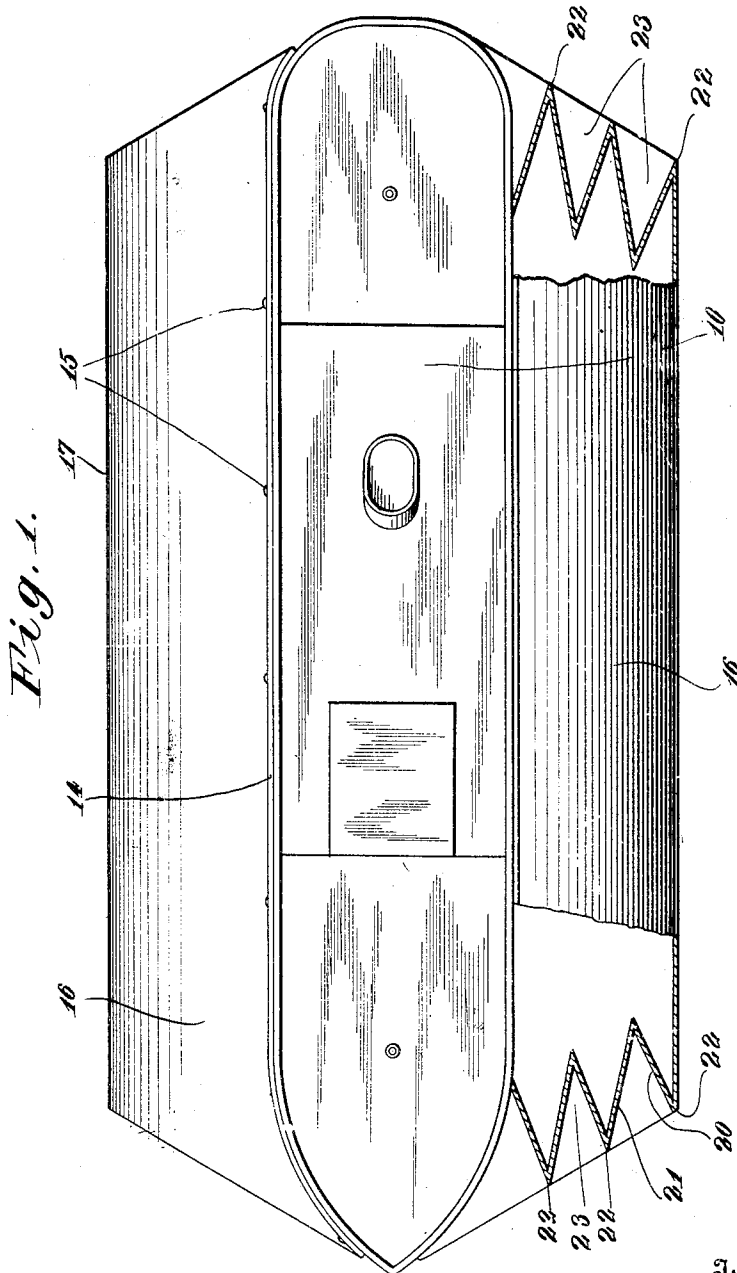


P. PETRUSAVAGE.
 ANTISUBMARINE DEVICE.
 APPLICATION FILED JUNE 7, 1918.

1,342,064.

Patented June 1, 1920.

2 SHEETS—SHEET 1.



Inventor
Peter Petrusavage.
 By his Attorney *Oscar Gill*

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Fig. 2.

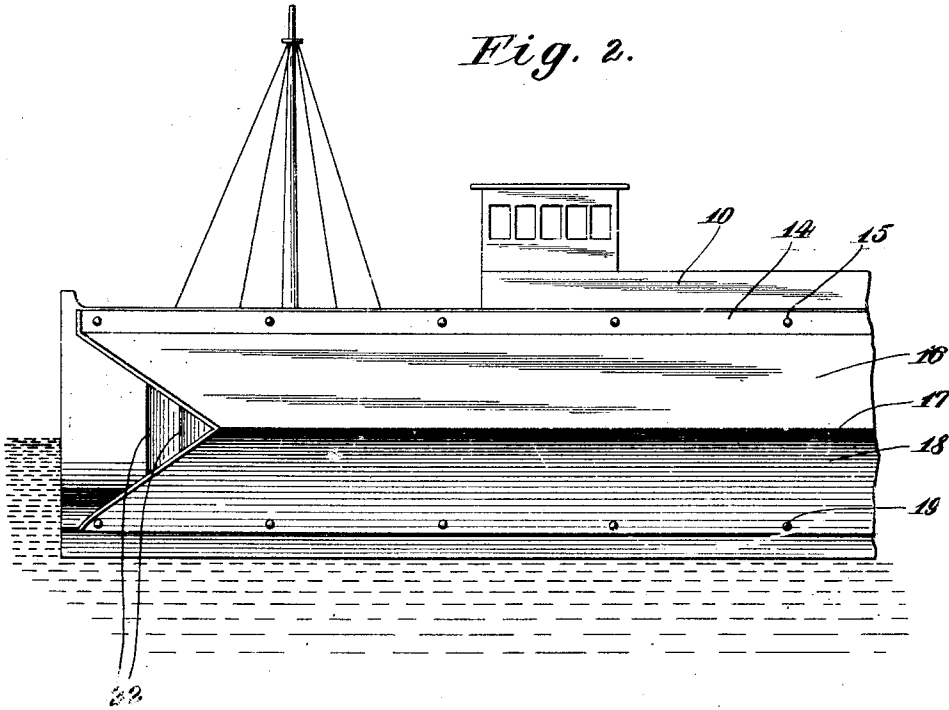
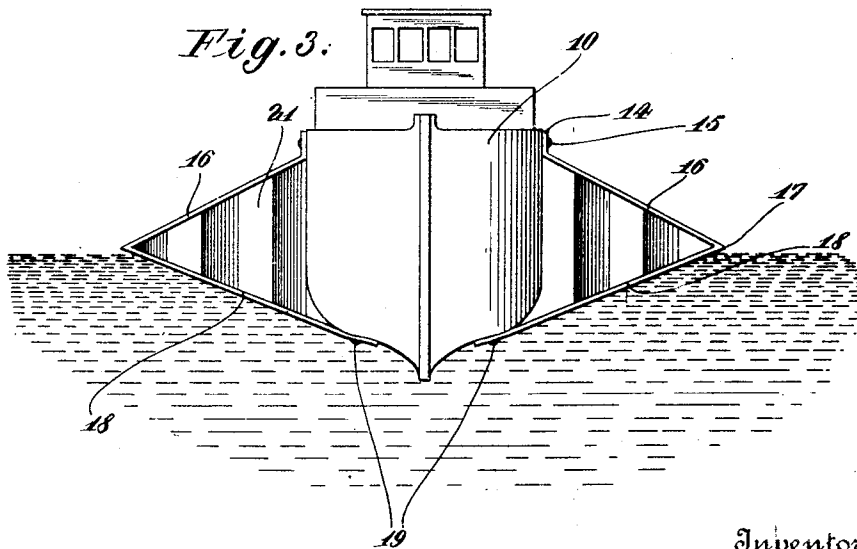


Fig. 3.



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UNITED STATES PATENT OFFICE.

PETER PETRUSAVAGE, OF MAHANOEY CITY, PENNSYLVANIA.

ANTISUBMARINE DEVICE.

1,342,064.

Specification of Letters Patent.

Patented June 1, 1920.

Application filed June 7, 1918. Serial No. 238,631.

To all whom it may concern:

Be it known that I, PETER PETRUSAVAGE, a citizen of Russia, residing at Mahanoy City, county of Schuylkill, and State of Pennsylvania, have invented certain new and useful Improvements in Antisubmarine Devices, of which the following is a specification.

This invention relates to improvements in antisubmarine devices and has as its principal object the provision of means whereby a torpedo or like submarine missile may be gradually diverted and prevented from damaging the hull of the ship.

A further object is to provide means combined with the fending elements at the ends thereof adapted to receive and retain a torpedo or like missile should the same be received therein, the prime object of the invention being to provide means whereby the ship is substantially invulnerable.

These objects are attained by the novel construction and combination of parts hereinafter described, and shown in the accompanying drawings, forming a material part of this disclosure, and in which:

Figure 1 is a top plan view showing a conventional type of sea going ship and indicating the attachment of the invention, parts being broken away in order to disclose the interior;

Fig. 2 is a fragmentary side elevational view of the same, and,

Fig. 3 is a front elevational view thereof.

Referring to the drawing, the numeral 10 indicates any ordinary conventional type of sea going ship provided with all the usual attachments necessary for its propulsion and navigation.

Engaged upon the side of the hull of the ship, at a point near the gunwale are up-turned flanged elements 14, held by bolts or rivets 15, of the angularly disposed armor plate 16, the same extending outward from the hull of the ship and downward to a point approximately level with the normal water line, as can best be seen in Fig. 3.

These plates terminate in acutely formed edges 17, and are engaged with a bottom plate 18 of the same general character, the bottom plate extending rearwardly to the hull of the ship and is attached at its lower portion near the keel by rivets or like fastenings 19, and it will be obvious that should

a projectile directed against the ship below the water line, come in contact with the angularly disposed plate 18, that the same will be smoothly intercepted and caused to slide under the ship without doing harm thereto.

Similarly, should a torpedo or like missile strike above the water line, on the surface of the plate 16, it will be gradually intercepted and directed upwardly and either pass over the ship or slide back into the water without doing damage to the ship.

The ends of the wedge-like formation, presented by the plates 16 and 18, are formed of recessed plates 20 and 21, arranged in the manner of an accordion plaiting, presenting sharp exterior edges 22, having between them angular openings 23, arranged in a vertical plane so that should the point of a torpedo or the like enter therebetween it will be intercepted and held so as to prevent damage being done to the hull.

From the foregoing it will be seen that a practical shearing device has been presented, readily engageable with a ship of ordinary type of construction, which is attacked side-wise by under sea missiles as torpedoes and the like will be protected and if the attack be made endwise so that the missiles approach from either end of the ship, that they are likely to be entangled in the openings 23 and prevented from doing harm.

I claim:—

In an anti-submarine device, the combination with the hull of a ship, of angularly disposed plates secured along the gunwale thereof, said plates extending outward and downward to the surface of the water on which the ship floats, oppositely disposed plates affixed to said hull near the keel thereof and joined with said upper pair of said plates at the top edges, said plates being adapted to gradually intercept and direct a missile over and under the ship, as the case may be and a plurality of accordion like vertical elements engaged between said plates at the ends thereof, adapted to intercept missiles moving in a plane parallel to the center line of said ship.

In testimony whereof I have affixed my signature.

PETER PETRUSAVAGE.