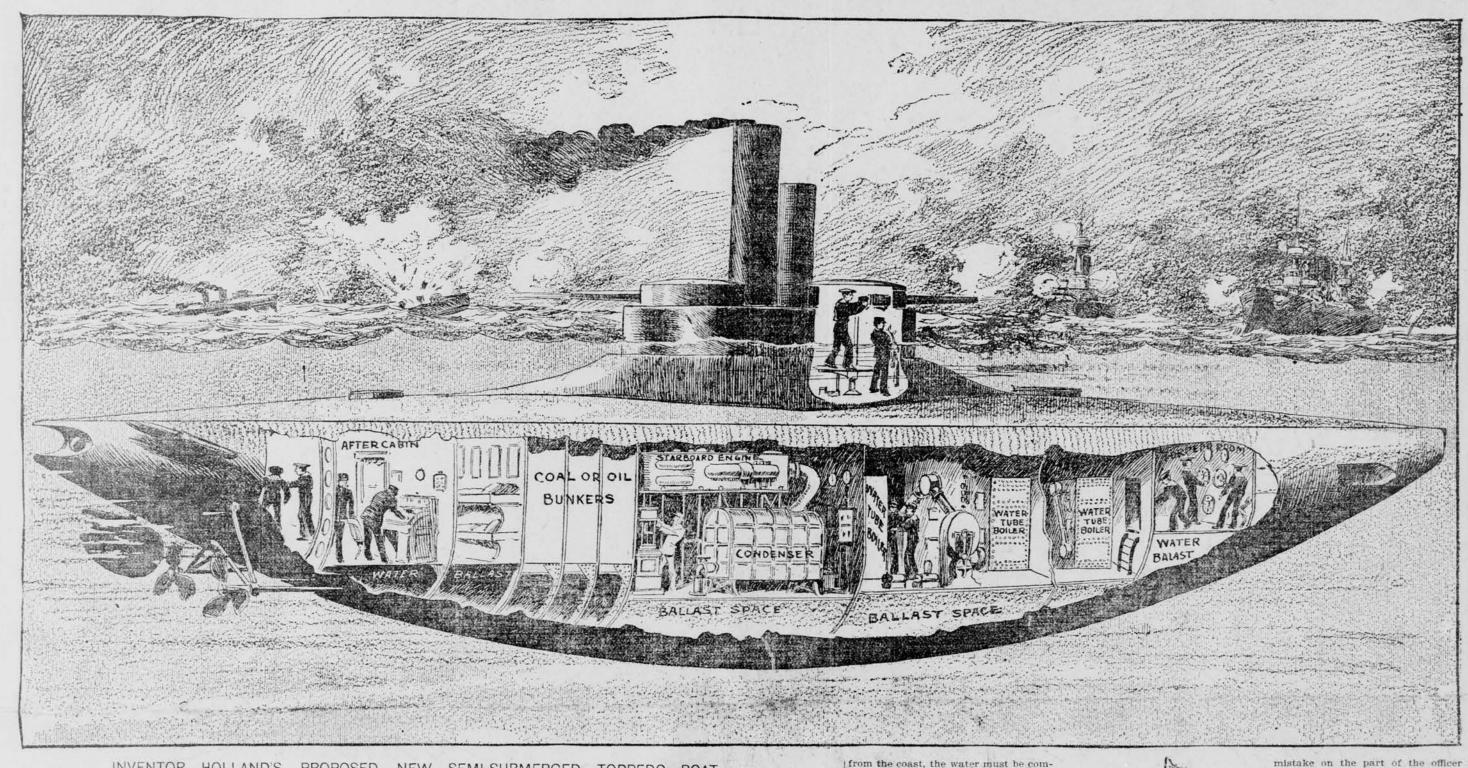


THE LATEST NAVAL WONDERS FOR DESTROYING BATTLE-SHIPS



INVENTOR HOLLAND'S PROPOSED NEW SEMI-SUBMERGED TORPEDO BOAT

SEA FIGHTING NEW MONSTERS, THE SUBMARINE TORPEDO BOAT AND THE SEMI-SUBMARINE TORPEDO BOAT.

In both his boats Mr. Holland's iden has been to have sufficient protection to get within striking distance of an enemy's ship. In the submarine boat this idea is carried out by making an attack from beneath the water, where she is safe, because unseen; in the semi-submerged t reedo-boat part of the vessel is protected by being sunk four feet under the water. The small exposed portion is surrounded with armor at least as heavy as that on the mor at least as heavy as that on the to avoid. armored cruisers of the present day.

President W. H. Jacques of the Hol-land Torpedo-boat Company describes the new semi-submerged torpedo-boat as follows:

as follows:

"We all know how difficult it is to adequately protect a ship with armor even by a most careful distribution of weights. The semi-submerged boat presents a type in which you can armor such parts as are necessary, employing very heavy armor, because you have reduced to a minimum the parts exposed, and, possessing submarine qualities, it is the only kind of a boat that will do this, as you well know there is not a torpedo-boat in existence to-day that will meet these conditions.

"In such a craft you can get close up to your ship and fire the torpedo-line of the water line."

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"Is displace—which be 1000 tons; the engines will be the engines will have 10,000 or 12,000 horsepower and evelop a speed of twenty-five knots. The armored superstructure to protect the smokestacks and companion develop a speed of twenty-five knots. The armored superstructure to protect the smokestacks and companion will overlant the protect the smokestacks and companion will overlant the surface of breath. As a matter of fact, we are all in the dark as yet as to what may or may not be accomplished by a submarine torgoloboat in existence to-day that will meet these conditions.

"In such a craft you can get close the smokestacks and companion will be only 15 inches above water in the middle; in the depths will achieve a weapon which, in dead that will outrival even the torpedo. And we know from sad experience what terrible destruction can be wrought by even one torpedo or submarine mine.

As a matter of fact, we are all in the dark as yet as to what may or may not be accomplished by a submarine torgoloboat. We know little enough about the behavior in real warfare of vessels which maneuver on the surface, and it is claimed that will outrival even the torpedo.

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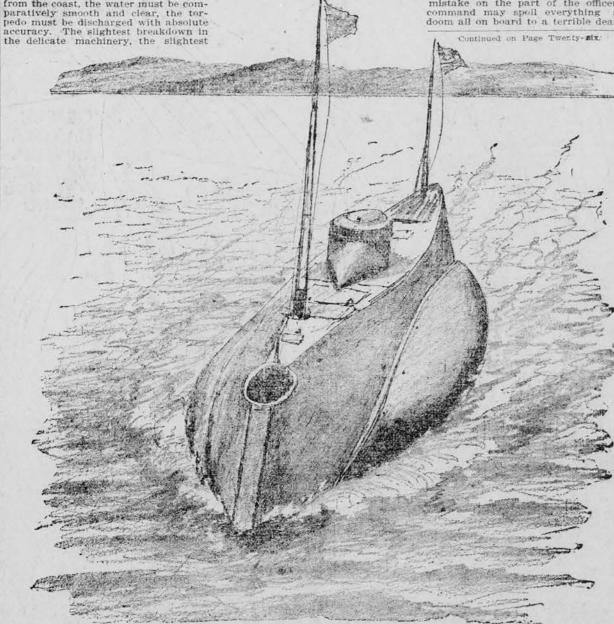
York of the successful trials made by the Holland submarine boat has set men considering seriously the possibility of using this terrible weapon of offense in the war which now seems inevitable,

Naval experts of course are divided on the question, they always are whenever any new instrument of destruction is introduced. The more conservative shake their heads gravely and Inventor Holland proposes to build one of these all-around fighting submarine machines as follows: A vessel 220 feet long, 24 feet wide and drawing 14 feet of water. Its displacement will be 1000 tons; the engines will have 10000 or 12000 horsproposes. dwell on the many limitations which

NVENTOR HOLLAND has just come to the front with another markine wonder; he calls it a semi-submerged torpedo-boat. It is a vessel designed to stand up and fight the enemy in an interchange of heavy blows. Its fighting equipment and make-up is therefore, somewhat different from his submarine torpedo-boat. This new craft does not wholly disappear under the surface of the water, but is only semi-submerged. Again, you are giving a well-disciplist enough for what is considered safety in a flerce sea fight.

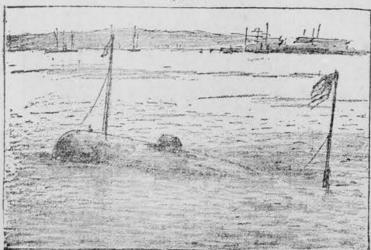
In both his boats Mr. Holland's idea has been to have sufficient protection. she may, under favorable circumstances, revenge the loss of the Maine. The Holland boat was tried at Perth Amboy, N. J., last month, and subjected to four severe tests. While running full speed she was submerged by simply filling her tanks, reappearing gradually after traveling some distance under water. In addition to her capacity for submarine work, the Holland can make a good fight on the surface. She can fire an aerial torpedo containing 100 pounds of guncotton for a distance of a mile. Also she is supplied with three 18-inch Whitehead torpedoes, fired from a tube under water. Further, there is a submarine gun at the stern, designed to fire a projectile five hundred yards through the water. When on the surface she is propelled by gasoline engines, when below electric storage batteries do the work. Horizontal rudders regulate the depth to which the boat is sunk, but to be kept under water she must be constantly moving. The boat is 55 feet long by 11 feet in diameter, and it is claimed that she can run for fifty miles without coming to the surface for breath.

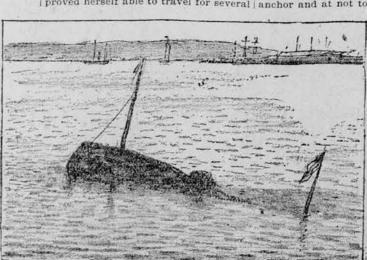
So far, the Holland boat promises well; but the main question is, Will the conditions favorable for the use of a submarine vessel ever occur in real action?

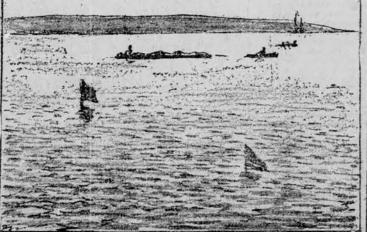


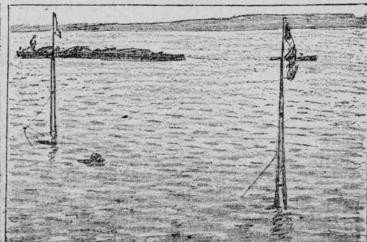
NEW SUBMARINE BOAT HOLLAND AS SHE APPEARS ON THE SURFACE OF THE WATER.

Sketched from a Photograph









THE SUBMARINE TORPEDO-BOAT BEGINNING THE DIVE.

A LITTLE DEEPER.

ALL UNDER WATER; ONLY THE TIPS OF THE FLAGS SHOWING.

COMING UP AFTER THE DIVE