

THE HERRESHOFF TORPEDO LAUNCH, RECENTLY BUILT AT BRISTOL, R.I., FOR THE ENGLISH GCVERNMENT.

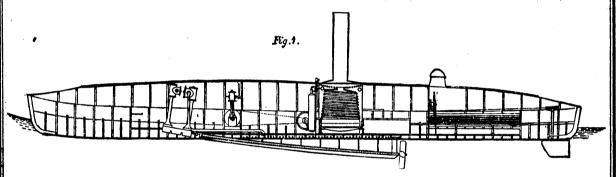


Fig. 2.—MACHINERY OF HERRESHOFF TORPEDO LAUNCH.

THE HERRESHOFF TORPEDO LAUNCH.

We are indebted for these engravings and description to the Loudon Graphic and Engineer. This launch, as will be remembered, was built in Bristol, R. I., for the English Government. The Atlantic on the deck of the National Line steamer Denmark.

The boat, which is shown in section in Fig. 2, is 59 feet 6 inches long, by 7 feet 6 inches beam and 5 feet 6 inches deep, with 1 foot 2; 7 feet 6 inches beam and 5 feet 6 inches deep, with 1 foot 3 inches draught of water, there thus being 4 feet 3 inches of freeboard. Her working draught, however, is 4 feet 6 inches, as the second below the keel. The as the acrew and rudder are both placed below the keel. The vessel is constructed with five watertight bulkheads, and her hull so of constructed with five watertight bulkheads, and her hull is of composite construction below the water line, having a steel framing covered with wood planking. The upper part of the hull top side along the plates being one sixteenth inch thick, the top side sloping inward, and the upper work forming a protective superstructure. She is propelled by superstructure for the crew and machinery. She is propelled by a screw, which is placed beneath the vessel in a central position, and which is placed beneath the vessel in a central position, and which is placed beneath the vessel in a converge placed in the formal driven by a direct acting condensing engine placed in the forward part of the boat.

The diameters of the steam cylinders are 10½ inches and 6 in-ches respectively, with 10 inch stroke, and they are of 100 horse pain. There is an independent feed pump and air the stoke hole is inclosed, and is supplied with air by a Startevant blower, which is driven by an independent engine of the startevant blower, which is driven by an independent engine of an diameter. The propeller is a two bladed serew, 38 inches in diameter and 5 feet pitch, the screw shaft being 23 feet in length. The vessel is steered by means of a balanced rudder about a short distance from the stern and under the ship, the court raised instance from the stern and under the ship, the court raised instance the deck. The hull and machinery together and final. out raised just above the deck. The hull and machinery together weigh 6 tons, but with the working crew of four men, and fuel, stores, and two torpedoes on board, the boat weighs about 7½ tons.

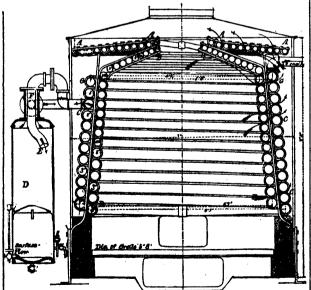


Fig. 3.—HERRESHOFF STEAM GENERATOR.

Steam is supplied by a Herreshoff coil boiler, which constitutes another novelty in this boat. The boiler, which is shown in section in Fig. 3, consists of a circular combustion chamber, which in the present instance is 4 feet in diameter internally and within which is a coil of about 800 feet of 2 inch pipe, coiled