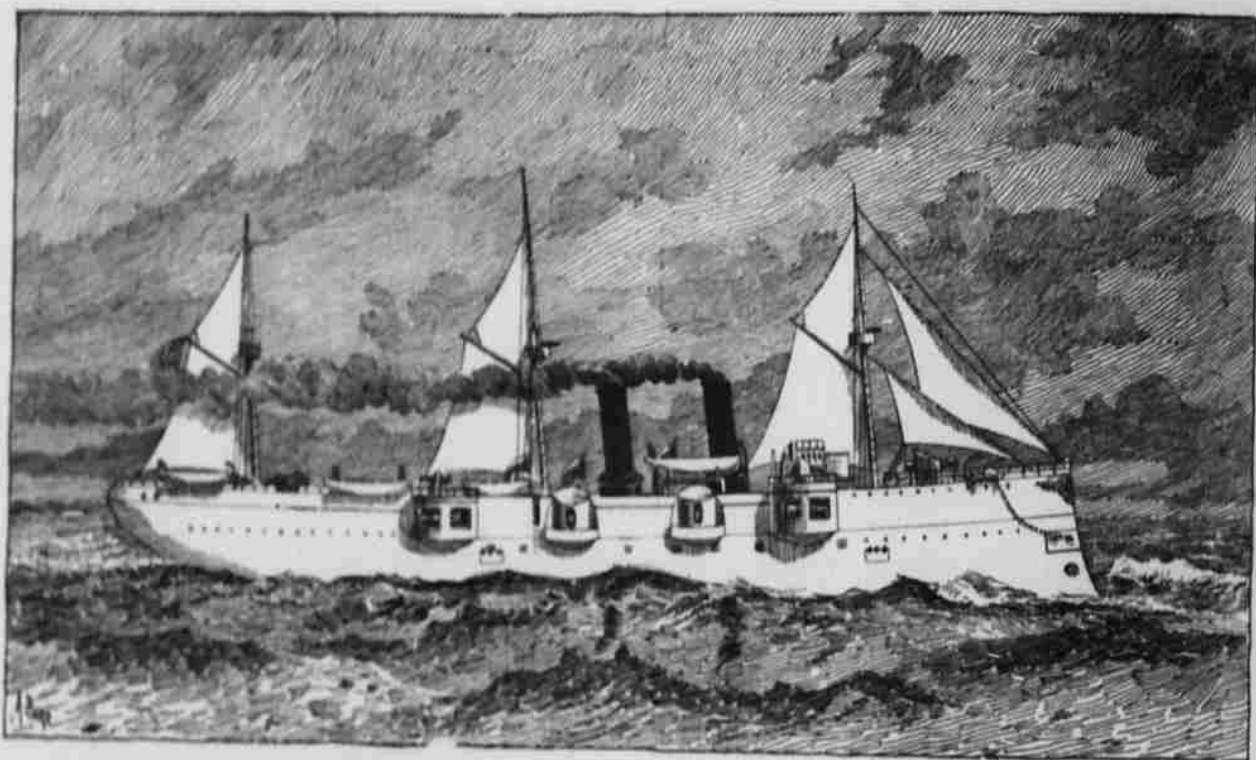


THE "SAN FRANCISCO."

THE *San Francisco*, now in process of construction at the Union Iron Works, of San Francisco, is a vessel similar to the *Newark* in scantling and general construction, drainage, ventilation and dimensions; but the forward and after sponsons, as in the *Newark*, are removed, and the guns in them are mounted on the poop and fore-castle decks. She is a twin-screw, protected cruiser, having a poop and fore-castle deck, with an open gun deck between. Her length between perpendiculars is 310 feet; her extreme breadth, 49 feet, 2 inches; her mean draft, 18.825 feet; displacement in tons to low-water line, 4,092.93; and her engines will be capable of working up to 10,500 horse-power. She will have a maximum speed of

weighs 100 pounds, and the powder charge is fifty pounds, making the weight of a single broadside thrown 600 pounds. These shells have a penetration of about thirteen inches of iron at the muzzle. The secondary battery consists of four six-pounders, 57^{mm} single shot guns, four 37^{mm} Hotchkiss revolving cannon, one one-pounder on a rail mount, and two gatling guns on rail mounts. One of the 37^{mm} guns is mounted on each of the fore and aft tops.

The captain's cabins are at the after end, under the poop deck, and are extended from side to side; in the after one are worked two 37^{mm} Hotchkiss revolving guns. The ward room is at the after end of the berth deck, and has seven rooms on each side. Forward of the ward room, and separated by a transverse, steel, water-tight bulkhead, is the steerage; the whole star-



THE UNITED STATES PROTECTED STEEL CRUISER "SAN FRANCISCO."

nineteen knots an hour. The main battery consists of twelve six-inch, breech-loading rifles, mounted on central pivot carriages supporting segmental shields two inches in thickness, for the purpose of protecting the guns' crew as well as the mechanism of the gun carriages from machine-gun fire. The two guns forward are mounted one on either side upon the fore-castle deck, and train from sixty-five degrees abaft the beam to 115 degrees forward. The two after guns are mounted on the poop deck in a manner similar to these just described. The second pair from forward, together with the second pair from aft, are placed under bridges. The remaining four guns are mounted on sponsons on the sides. All the guns on one side of the vessel can be concentrated on an object fifty feet distant. Each of the shells from the main battery

board, for its twenty-seven feet of length, is devoted to the accommodation of its junior officers. Forward of the steerage, and separated by a transverse, steel, water-tight bulkhead, on the starboard side, is the paymaster's office. In the midship part of this deck are located the blowers for ventilating the living and other spaces throughout the vessel; here, also, are the engineers' workshop and firemen's washroom on either side. The sick bay and dispensary are at the port side of this deck. The galley and fittings are located under the forward bridge and enclosed by a steel bulkhead, well lighted and ventilated by skylight and air-ports. Above this, on top of the bridge, is the armored pilot house, with wooden pilot house adjoining. It is estimated the *San Francisco* will cost \$1,428,000.

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