of the week. Each department of state general adoption of oil as fuel by the The trial trip of this steamship, which is working at full pressure. The amount of work to be done is enormous, and the of the petroleum now imported into harbor, demonstrated that the substituobstacles are removable only gradually. In the Public Works Department things are almost at a standstill owing to the difficulty of procuring goods from the coast. There is not only about twenty coast. There is not only about twenty years' arrears of work to catch up, but also the destruction of the last three also the destruction of the last three and in every way more desirable. One table showing the production of pig iron years to make good. Hospitals, asylums of the most conspicuous instances of oil in the United States, United Kingdom, and gaols are waiting to be built or to be provided with increased accommodation and public offices of such towns as Ermelo fleet. and Caralina, Southeastern Transvaal, Th have to be rebuilt. The material needed for all these purposes would, at the present rate, take several years to carry from the coast, and little can be done until more rolling stock is procured.

PETROLEUM THE NEW FUEL .- An expenditure of some \$20,000 is now being made by the Navy Department in experiments to determine the value of petroleum for fuel on war ships. Tests of oils and of burners are being made at Washington, and it has been found that when a than the best Pocahontas coal. It was particularly noticeable that uniform results were obtained.

At the same time that experiments are being made by the U.S. Government, we learn that the Norwegian navy also is exNorway now comes from the United tion of oil for coal as fuel will result in a States.

ocean-going steamships there can be no question. It has been repeatedly demonstrated to be better and cheaper than coal

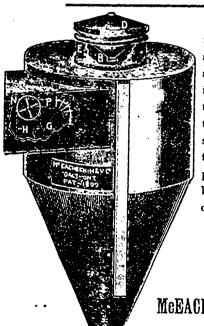
The Mariposa has been especially fitted 6,500 barrels of fuel supply for the round trip. This oil is carried in six compartments, in very strongly braced steel bulk-heads, which extend right across the them amidships. At each end of the fuel oil tanks a watertight coffer dam of two frame spaces has been fitted, so as to obvinte any possible danger of oil leaking forced air draft of one inch was used the into the ship's bilges or freight spaces. oil gave results about 33 per cent. better An expansion trunk has been fitted to each compartment, so as to allow for any increase in bulk of the oil, due to the variation of temperature during the ship's voyage through the tropics. A very efficient system of ventilation has been fitted to every compartment where oil is perimenting along this line. On the suc- carried, and no one aboard could detect cess of these tests depends largely the the odor of oil in any part of the ship. carried, and no one aboard could detect

ates. great saving, not only in the cost of the As to the superiority of oil as fuel on fuel, but in the labor employed.

UNIVERSAL PIG IRON PRODUCTION .-The Commercial Intelligence presents a adaptation is that of the steamer Mari- Germany and all other countries. Beposa, of the Oceanic Steamship Co's coast ginning with 1865 the figures are given at ginning with 1865 the figures are given at intervals of every five years up to and including the year 1900. The figures for 1901 are also given. This table shows up to ply between San Francisco and Tahiti and return, a distance of 7,316 that in 1865 the United States produced nautical miles. As there is no fuel oil at 832,000 tons, the United Kingdom 4,819, present at Tahiti, it is necessary to carry 000, Germany 760,000, and all other 832,000 tons, the United Kingdom 4,819,000, Germany 760,000, and all other countries 2,839,000. In 1901 the figures were: United States, 15,878,000; the United Kingdom, 7,750,000; Germany, 7,737,000; all other countries, 9,042,000. ship; a fore-and-apt bulkhead dividing The figures for the United States are the only ones which show an increase in 1901 over 1900. In the latter year, 1900, the other nations reached their high-water mark. The figures for that year are: United States, 13,789,000; United Kingdom, 8,960,000; Germany, 8,386,000; all other countries, 9,265,000. It will be observed that in 1865 the United Kingdom produced more than all the rest of the world put together, and over three times as much as Germany and the United States combined. This country in that year led Germany by the narrow margin of 72,000 tons. In 1901 the

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