

ever the letters on her stern. Uncle Sam's proposed new 20,000-ton battleship, to be built at a cost of \$9,000,000, will not dread the English Dreadnought—and that means that she will fear nothing affoat.

Not many days ago there was tested on British waters the most mighty battleship ever built, H. M. S. Dreadnought. When from her barbettes blazed simultaneously fire from eight of her ten twelveinch guns, making an explosive force equal in the aggregate to 400,000 tons, which

and proved, a fighter of steel and fire which could catch and destroy any giant that inhabits the main. England had built her in eighteen months, not, she protested, to destroy peace, but to insure peace. For, she argued, with such proof of superiority on the high seas, surely no nation would be so foolhardy as to contest her supremacy.

She erred. Already England's supremacy is in peril. Germany has planned a battleship which, with sixteen eleven inch guns, was intended to mark an advance

gave some pointers to the naval world, has not retired from the seas. And Uncle Sam?

Uncle Sam is planning a battleship superior to any other yet conceived in the world. He will make it so big and strong and fast that it will be able to catch and demolish any foe with its twelve twelve-inch guns; he proposes to protect it by improved armor and arrangement of hull compartments. Indeed, in the new monster he will endeavor to say the very last word in the way of battleship construction

the seven plans now drafted, two by architects

four of the 40,000-ton type. Could the ship withstand the shock of such tremendous discharge of guns? The engineers who prepared the plans contend that by placing the turrets containing the guns far chough apart, and by placing them at different elevations so that the vibration would not all affect the same

These plans also include sixteen five-inch guns to fight off torpedo boats. A criticism is that none of the small guns can be fired to the rear, and only two over the bow.

In another plan, provision is made for a 20,000-ton ship also, with six turrets, each containing two twelve-inch guns, only ten of its guns arranged, however, to t fired upon a broad-

At least two of the seven plans being considered by the special board appointed by Sccretary Bonaparte, it is said by those who have seen them, contain principles which would in-

Some things, axiomatic in battleship construction, are recognized in all the plans. For instance, all start with the assumption that a

protection of the machinery and magazines and e stability of the vessel. Outside of this there will be no armored protection except on the turrets containing the twelve-inch guns.

The Dreadnought, England's Most Powerful Battleship

Of the twelve-inch guns, four will probably be mounted in two turrets, on a line forward, the rear turret higher than the other one, thus firing over it. Four other guns, in two turrets, will be mounted on the after deck. A turret with two twelv -inch guns will probably be located on either broadside. Such an arrangement would admit of a broadside of ten twelveinch guns. From all of the twelve-inch guns shells, each weighing 900 pounds, will be driven by 275 pounds of cordina at a speed of 2000 miles an hour.

Turbine engines must give a speed of at least twenty-our knots, and possibly twentyseven. The Dreadnought was designed to go twenty-one knots, but in a test has gone twentythree. Speed is recognized as an essential in the matter of gaining position in engagement and in

pursuing or protecting merchant marine. There will probably be no fighting op

plate can be produced in t is cou-Dreadnought carries eleven inches or the most protected places, and the South Carolina twelve.

Whether by eliminating protection above the magazines and machinery, excepting the big turrets, it would be possible to place this weight in the underbody to protect it against mines and torpedoes is one of the questions to be decided. If so, an important advance will be made, for the Japanese war proved that such protection is one of the crying needs of the present-day

At a range of 3000 yards the Dreadreight's guns will pierce a fraction over seventeen inches armor of any kind ow made. The Navy Department is sure, however, that a superior armor can be had. So that it to armor that the American inventor, interested in the prestige of the navy, is turning his nand.

Has the last word been spoken by Engl: Or is American genius arisir " the emergency ? he government at Washington believes that it

AREFULLY, secretly, the naval architects at Washington pursue their work, which is to decide whether America is to be outdone abroad in the construction of battleships, which may even mean an answer to the question whether or not a European power might, if it wished, ignore the Monroe Doctrine and pick up South American territory in contempt of Uncle Sam.

The Dreadnought marks the longest step forward since the Monitor during the Rebellion -although its honor is somewhat depreciated by the simultaneous advance, almost as great, by this country in the South Carolina, now under

Indeed, it is asserted by a high naval authority, ten years ago a member of the Bureau of Construction, that plans similar to those of the Dreadnought were considered at Washington years ago, and that while this government failed to see the advantages in them, England's representatives at Washington carefully took Now they have appeared in the new battleship.

Congress itself will decide what our Dread-

nought beater is to be like, after considering of the Navy Department and five by outsiders.

One plan is for a 20,500-ton ship, with twelve twelve-it. h guns, in six turrets, all on a centre line, the second pair to shoot over the first pair, the third to shoot over the second, the highest to be forty-five feet above the water-line. This considered to hold in some respects possibilities overbalancing those of the English fighter. It means that all the twelve guns could be

fired at one time upon either broadside. Only eight of the Dread ought's ten guns can be so trained. Eight against twelve!

To understand what this means, consider that when such a twelve-inch gun is fired it generals an energy at the muzzle equal to that of 50,00 foot-tons, that is, an energy which would lift 50,000 tons a foot from the ground. So eight of t' e guns fired at once would create 400,000 tons energy, while twelve would generate

Before the construction of the Dreadnought the greatest number of twelve-inch guns on any vessel that could be fired on a broadside were

deck, it would be feasible.

sure a stronger fighter than the Dreadnought.