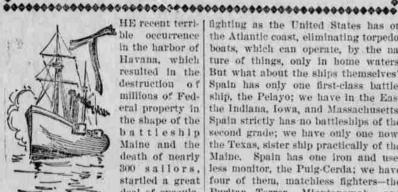
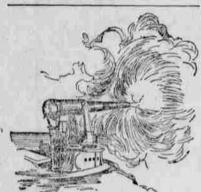
## IF WAR SHOULD COME.

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in the harbor of Havana, which resulted in the eral property in battleship

naval armaments of the world. It has revived the discussion of what the result of a war between the United States and a foreign nation would be,



DISAPPEARING GUN AT NEW YORK. and brought forward the three opintons concerning such matters, viz.-the more use for a navy comparable to than we have for a standing army like France or Russla; the stand that the money put into our navy would better have been expended in coast defenses and lastly that opinion which demands that on land and sea we should be equally powerful to any nation on earth.

It is now over half a century since the guns of this country were turned upon a foreign foe, and this long period of peace has inclined a very large proportion of American citizens to the first named course of reasoning. The mid dle ground position is held by the coast defense theorists. They believe that with our coast defended by modern fortifications and guns we can almost dispense with a heavy navy altogether. The third party believes in the widest possible display of our naval power. At the present time the only country with which we are likely to become embrolled in strife is Spain, and as a war with the Spanish would be largely a naval one it is therefore of interest to consider what the possibilities of such a war might be.

Since the Maine went down numer ous reports have been spread broadcast that Spain is now superior to us as a naval power, and many persons have grave fears as to the outcome of a conflict. Let us see. Since 1883 Congress has authorized the construction of seventy-seven war vessels, at a cost of \$134,439,700.10. Sixteen of 1883 are as follows: Battleships, firstclass, nine; battleships, second-class, mite cruiser, one; torpedo boats, 21; ships for cadets two; dispatch boat,

Navy estimates that all will be com- has no such vessels,

seas as some would have it understood.

for submarine mines and torpedoes the

sum of \$40,000,000; our principal sea-

port towns have thus been put in con-

dition so that, with the aid of the

navy, the country could easily resist

the attack of any one of the great naval

There is no doubt as to which of the

While Spain has more men in her navy,

1805. She is obliged to have this done,

yards of her own. Her limited credit

has kept back this work, and it is not

likely that the boats now under way

would be completed even on "rush"

orders before two years from now,

Then, too, the classifications made in

the tables favor Spain, placing boats

in the second class of battle-ships

which, although heavier than our sole

not cope with it.

however, abroad, as she has no ship- the other side.

powers of the world.

HE recent terri- | fighting as the United States has on the Atlantic coast, eliminating torpedoture of things, only in home waters. But what about the ships themselves? destruction of Spain has only one first-class battlemillions of Fed- ship, the Pelayo; we have in the East the Indiana, Iowa, and Massachusetts. the shape of the | Spain strictly has no battleships of the second grade; we have only one now. Maine and the the Texas, sister ship practically of the death of nearly Maine. Spain has one iron and use 300 sailors, less monitor, the Pulg-Cerda; we have startled a great four of them, matchless fighters-the deal of specula- Puritan, Terror, Miantonomah, and tion as to the real value of our navy and Amphitrite, Spain has six armored its relative importance among the cruisers, all of them practically in splendid fighting trim-the Almirante, Oquendo, Carlos V., Infanta Maria Teresa, Princesa de Asturias, and Vizcaya. We have two such vessels-the New York and Brooklyn. For defensive fighting our four monitors are superior to the three armored cruisers which we seem to lack in comparison with Spain, but, allowing that they are only equal, ir may be said that in that class the navles of the two nations are of

That throws the comparison back to battleships, of which we have four available, three first-class and one second-class, and of which Spain has only one available, the first-class Pelayo. The armament of the monitors and armored cruisers on both sides is practically equal. The armament of battleto one in a naval battle. So much for strictly fighting ships. We have ten, hulk, the propulsion of which through gunners are absolutely protected by a theory which holds that we have no Spain has six. In protected cruisers calm and known waters is no easy Spain has not more than fifteen and we task, to say nothing of its managethat of the great nations of Europe have ten available on the Atlantic ment in heavy seas or during an encoast. The armament of our ten, care- gagement, where rapid action is necesthat of Great Britain, Germany, ful calculation shows, is a little more than equal to that of Spain's fifteen.

equal strength.

range. The deadliness of these arms tor would immediately touch a button. their cost. What the result would be if would doubtless kill all on board. several Spanish and United States battleships met in closer quarters may easily be imagined, and it is no exaggeration to say that the chances favor the bor defenses knows where they are. boats, which can operate, by the na- destruction of nearly everyone engaged.

is great enough under those circum- one explosion which followed would stances, as China and Japan know to completely wreck the warship and

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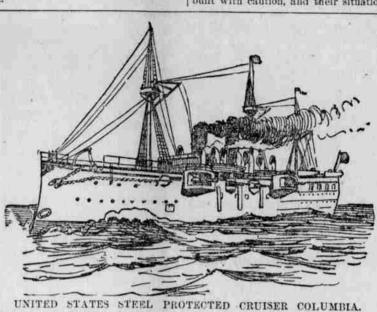
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The work of preparing these mines has been done very secretly, and no one outside of those in charge of the har-The sunken casemates, too, have been built with caution, and their situation

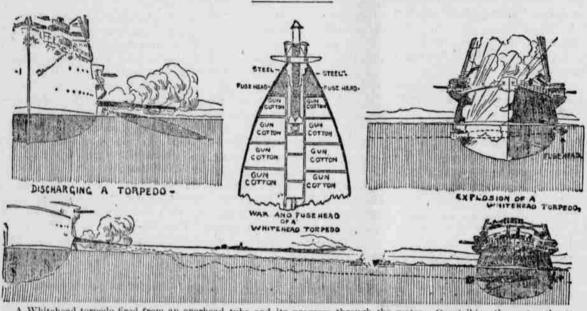


speedily devised or an explosive discov- that none of the mines could be used. ered which necessitated the invention

Modern gunnery and armor-making is not known either. The necessity for have kept such steps together that no this caution is apparent when it is resooner has a plate been invented which | membered that any interference with would resist the most penetrating the wires by the subject of some forprojectile of that time than a gun was eign nation might disturb the work so

Another great means of defense is in ships is four to one in our favor, and it of a plate of still greater resisting the big disappearing guns, which work is the kind of armament that tells ten power. This game has gone on, until as if they have human intelligence. No the modern ship is a gigantic floating fort is necessary for these guns. The big parapet. When the gun is at rest, it, too, is concealed behind the parapet, where it is loaded. When firing becomes necessary ponderous machinery raises the big cannon so that its mouth But besides the things visible with points over the parapet. In thirty sec-

THE "DEVIL OF THE SEA"-HOW THE TORPEDO DESTROYS.



A Whitehead torpedo fired from an overhead tube and its progress through the water. On striking the water the torpedo is propelled at tremendous speed by its own engine. In the forward portion of the torpedo is carried an explosive charge of 150 pounds of gun cotton. The mass is exploded by a percussion fuse fitted into the nozzle of the weapon. The torpedo would wreck the strongest ship affoat.

Spain has a slight advantage in numstrength. We could use our torpedoboats; Spain couldn't get hers over Of the sixteen ships of war now un- here. We could use our ram Katabdin

pleted during the present year except! In the matter of ships and guns, de-

won by men-valorous men, patriotic

tards, of course, man Spain's ships.

There you are as to men; Americans on

one side and Spaniards on the other.

Stronger than any reason yet given

as to the result of a fight between us

and Spain is the one to be deduced

from the scene of action of war. The

powder and shot in the magazines that

tic, that's sure; we shall not fight on

One Serious Disadvantage.

have the disadvantage of a tremen-

dous coast line, east, south and west, to

comparatively a small amount, while

boats, while keeping away from our

ble damage. The power of the mod-

In a naval war with Spain we would

Need more be said?

THE GUN THAT GUARDS HAVANA HARBOR.

the five battleships, which will prob- | spite the loss of the Maine the United

ably not be ready for service until the States has a decided advantage. Bat-

latter part of the coming year. It is, tieships are the ones that count in real

States is not so powerless upon the won solely by ships and guns. They are

During the past ten years there have men-on board the ships. Our ships

been expended yearly on seacoast for- are manned by seamen nine-tenths of

tifications and their armaments and whom are American seamen. Span-

two nations, Spain or the United war would take place in and around

States, is the stronger from a naval Cuba. We could get coal easily and

standpoint. In ships and armament Spain could not. It's the coal in the

we have by far the superior navy. bunkers as much if not more than the

we outnumber her in ships, although decides naval contests to-day. The

she includes some spiendid cruisers in man at the stokehole is just as import-

her list. Like us, she is adding to her ant as the man behind the gun. Spain

navy, replacing the boats she lost in can't whip us on this side of the Atlan-

remaining specimen of that class, could | cruisers, could do us almost irrepara-

Of gunboats Spain seems to have which modern cruisers must contend onds the gunners have trained the cantwenty; we have not more than twelve is the problem of submarine warfare. | non properly, and an the vessels have not yet been com- on the North Atlantic coast. Nearly The invention of Ericsson has been impleted. The vessels authorized since one-half of Spain's gunboats, according proved upon, both as regards the abilto Lord Brassey, the great English au- ity of warships to eject the deadly tor- mor has not yet been made strong thority, are "small steamers from 86 pedo itself and the torpedo-boat capa- enough to stand against the shot fired two; cruisers, 18; gunboats, 15; harbor to 348 tons." In the matter of unar- ble of submerging itself wholly or in defense ram, one; monitors, six; dyna- mored ships, the commerce destroyers, part. Inventors all over the world are working upon the submarine torpedosubmarine torpedo boat, one; training bers; we have a slight advantage in boats and rams, and, while they have not attained the success of Jules Verne's fancy, it is believed that if they have not already solved the probder construction, the Secretary of the and our Holland submarine boat; Spain lem it is a matter of a short time till we shall have a boat capable of submerging itself for a time sufficient to do terrible damage to the largest battleship and still not be in sight during

the engagement. This is not speaking of the established practicability of the sunken torpedo or more to be used in harbors and discharged by electricity from a distance. These last can be utilized for coast defense and are very effective. They could destroy any cruiser anchored or sailing over them, but are only useful under those circumstances.

The war department has guarded therefore, obvious that the United fighting. But naval battles are not

which befell the Maine. The entire harbor is thoroughly and squares each of which is known by mining casemates. a letter or figure. For instance, in case of war, if a Spanish war vessel were

tile is sent flying ten miles over the sen. Woe to the vessel it strikes! Arfrom these enormous machines,

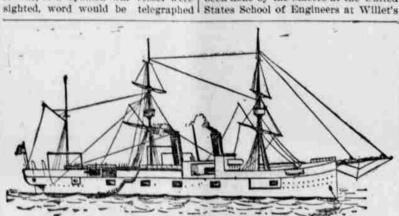
At present the inner harbor of New York is guarded by two 12-inch, three 10-inch and five 8-inch disappearing



SUNKEN MORTAR PROTECTING NEW YORK

with absolute secrecy the plans for all guns, as well as thirty-two 12-inch its coast defenses. It is scarcely known | mortars. These are all completed and outside of army circles that New York | put in position. Work is now going on is one of the most strongly defended for other disappearing guns which will towns in the world. No vessel could be finished this year. The southern get within fifteen miles of the battery and eastern entrances to the harbor without meeting a worse fate than that are more fully protected than the inner harbor itself. Here is an armament of 21 12-inch guns on lifts, 15 10-inch and mined and wires run to underground 9 8-inch guns on disappearing carcasemates where the operators work. riages, 176 12-inch mortars and many The harbor is divided into sections submarine mines operated from five

Most of the work of a defense has been done by the officers at the United



UNITED STATES STEEL PROTECTED CRUISER CHICAGO.

ilke this: "Vizcaya x op 23, 14 8, E." number of warships available for their fighting at comparatively long cated a mine or a torpedo. The opera- uplimic war holds full sway.

defend. We could do little damage to from one of the couning towers to the | Point, New York harbor, Twenty-three Spain's commerce, because she has officer in charge of one of the under- officers and 380 enlisted men are staground casemates near Sandy Hook. tioned at Willet's Point, and their some of her second, third or fourth-rate The message would be read something work is mostly with torpedoes and high explosives. Occasionally mines are That would mean that the Vizcaya planted and exploded, just as in reguwas then passing over a certain sec- lar warfare. Vessels are sent out to On paper Spain has about the same ern ships' guns enables them to do tion of the harbor in which was lo- try and come without being seen, and

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