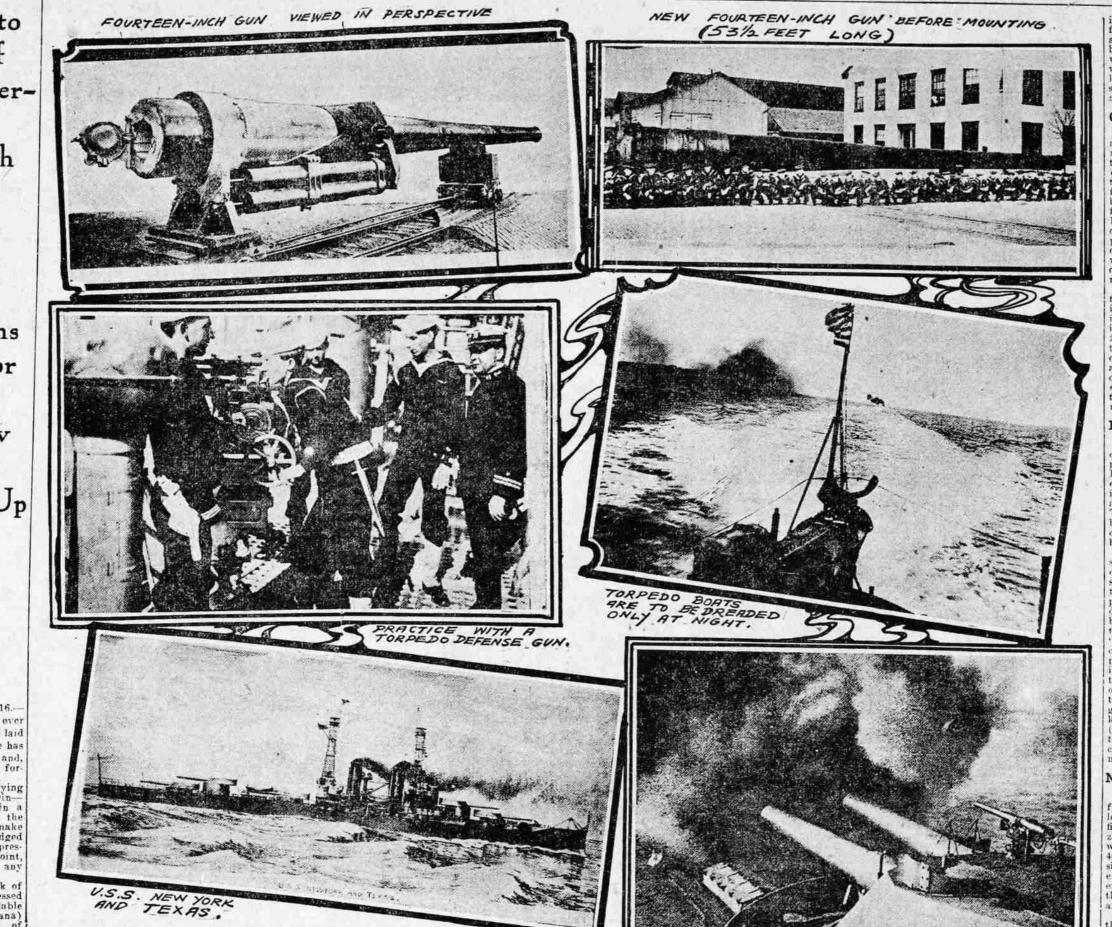
# World's Greatest Guns on New U. S. Battleships Will Make Naval Warfare Inconceivably Dreadful

vin Craft to rry Ten of ose Wonder-14-Inch fles, Which Vill Be the gest Guns float--Also venty-one e Inch Guns t Meant for in Battle uzzle How y Vessel uld Stand Up ainst the ws These ps Could

# v Rene Bache.

PORT NEWS, Va., Sept. 16.most wonderful vessel ever has just had her keel laid he dock yards here. She has in named the Texas, and, at, she will be the most ghting ship in the world. for carry bigger guns than any

the before the outbreak of on to other more formidable d as the Oregon and Indiana) d class hattleships. One of Maine, is now being dug out ddy bottom of the harbor of



ion upon another member of the hostile fleet. Suppose that four such vessels as the new Texas (we shall start building two more like her next year) were to concentrate their gundre in this way upon an enemy's battleship-how long could the latter, even though her-self a formidable craft, withstand the assault?

# Guns Outrival Armor.

How long, indeed, could anything affoat stand up against such blows? For many years there was great rivalry be-tween armor and guns, and it was a question which would win ont. But, as things stand today, the gun seems to be far and away the winner. Offense has become stronger, apparently, than de-fense can ever hope to be. How are human hands to fashion any floating human hands to fashion any floating object that will resist the impact of a projectile capable of piercing 26 inches of solid steel—a projectile that strikes with an energy equal to that of a ton of steel dropped from a height of twelve miles?

of steel dropped from a height of twelve miles? Such a projectile, in striking a hat-tleship fairly, may not penetrate, but it is likely to "dish" the armor plate it hits and to start leaks. This is what is technically known as a "racking ef-fect." or the mighty shell, if it chances to hit a turret, may easily jam. its ma-chinery, preventing it from revolving, and thus putting its pair of big guns out of business. Or, again, it may strike the conning tower (from which the management of the yessel is di-rected), and crack it in two. rected), and crack it in two.

## Dreadful Carnage Likely.

All of which does not take into ac-count the frightful effects of the ex-plosion of the projectiles on landing. Impact sets off the high explosive pack-ed inside of them, and they are rent into a thousand fragments weighing anywhere from an ounce to 50 pounds. These fly in all directions, and are lia-ble to kill a great many people. The carnage in scafights of the future will be inconceivably dreadful. The big naval gues of today are strikingly different in shape from those of a few years ago. The latter were strengthened by enormons steel hoops at the breech, to withstand the sudden ex-plosion of the old fashioned gunpoy-

der. But the modern smokeless powder burns very slowly, and in consequence the rifled cannon of late pattern have coming very long, and thus giving the powder plenty of time to resolve itself into mers hovers the pattern to be the powder plenty of time to resolve itself into gases before the projectile leaves the muzzle. When one comes to think the muzzle. When one comes to think of the matter, it seems surprising that the world should have been satisfied to get along with substantially the same kind of gunpowder from Biblical times (when the Chinese used it) up to the twentieth century, or very nearly. Then came the smokeless powder, which made nocessary a change in guns.

### Nature of Projectile.

As already stated, the projectile fired from the 14 inch gun has a muzzle ve-locity of 2,600 feet a second. The shell fired from a 12-inch gun leaves the muz-zle at 2,900 feet per second But it weighs only S70 pounds, as against 1. 400 pounds. This difference in weight signifies that much less energy is deliv-ered in striking the target. Greater energy means more protection. Furenergy means more penetration. Fur thermore, the heavy shell igaores wind

and variable air-densities. These great guns which will compose the formidable armament of the Texas and the New York are deemed by the navy department the most efficient veanons over made They can hit

e other was the old Texas ay is junk-baving been uti-ntly as a target, to test the ap-to-date projectiles.

### ht Have Been

are to have a new Texas place. But what a dif-teen the two! It is no exto say that if Spain had like that now buildne shin e might easily have defeated

memorable struggle of 1898. el, speedy enough to choose stances, could have knocked saval fighting machines literwhile keeping beyond the

mage of their guns. ar (like the New York) will will occupy five turrets, the latter be of those wonderful 14-inch ing arranged in a straight line from are now to be placed for me on board of fighting the guns can be fired as a broadside to is nothing like them in either to port or starboard. Two of

today, foreign nations having the turrets will be somewhat higher themselves thus far with 12- than the other three, in order that their max may fire over the others in cases The projectiles they throw guas may fire over the others in cases of smashing blows at long ranges with one of them being able to throw twelve.

are 41/2 feet long, weighing 1,400 pounds, and are hollow, the vacant space being packed with forty pounds of a ahead or directly astern. The two ships represent an entirely high explosive which is the most pow erful in existence, its composition be

ing a government secret. Guns in Five Turrets. Now the efficiency of either one of

these vessels as a fighting machine may be judged when it is explained that the balf-score gigantic breech-loading rifles their business being merely defense against torpedo boats. At night they would be utilized for this purpose in

connection with powerful searchlights. Fire at Six Miles.

What the Texas (like her twin sis

where shooting has to be done directly her great 14-inch guns. Under present conditions the normal fighting distance, where battleships are engaged, would be from 6,000 to 12,000 yards-that is new type of "superdreadnaught." One be from 6,000 to 12,000 yards-that is of their most remarkable features will to say, from three to six miles, roughly be a secondary battery of twenty-one 5-inch breech-loading rifles which, about six miles. They would start firing at though in themselves very formidable fighting distance was only 2,000 yards;

ments of fighting power.

distances, their proper fighting range being from 3,000 to 4,000 yards. Be-sides, if it were attempted to employ reckoned at 45,000 foot-tons—enough,

them in battle, they would make more or less smoke and interfere with the fire control. When it comes to their proper business, they are deadly enough, each like 50,000 foot-tons.

THE FIGHTING . 50-pound shells a minute, loaded with delivered upon the side of a ship! Nothhigh explosive Collectively they are called the "torpedo defense battery." ing afloat could successfully resist so

called the "torpedo defense battery." and the twenty one of them will be dis-tributed all around the vessel, so as to cover as many points of the compass as possible. The 14-inch rifle is just a trifle over 53½ feet long. Its evlindro-conical pro-jectile, driven by the explosion of 360 nonnds of smokeless powder (which is the load), leaves the muzzle with a vedeliver enough striking energy to lift 10,000 tons fifty feet in the air-and this, be it noticed, twice every minute.

The up-to-date method of sea-fighting is to concentrate simultaneously all the two guns of a number of warships upon a single vessel of the enemy, thus render-ing her quickly hors de combat, and

harder blows, and strike with greater accuracy, than any other rifled cannon existing in the world. If it be asked how the ships carrying them will be able to withstand the shock of their own gunfire, the answer is that the explanation lies in their huge size and the gun in the enormous weight of mounts. These twin vessels will each have a displacement of 23.000 tons, and, of course, the chief idea held in view in their construction is that they shall serve as gun platforms.

### Before You Reach the Limit

Of physical endurance and while your condition is still curable, take Foley Kidney Pills. Their quick action and positive results will delight you. For backache, nervousness, rheumatism, and all kidney, bladder and urinary troubles. Schramm-Johnson Drugs, five

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 ARLES D. WALCOTT, string
 The paper. Dr. Walcott mikes high means the string of the

feet above Field or about 7800 above sea level. Dr. Walcott's researches relate to Paleontology which is the historical branch of geology, and covers the col-lection and study of animals and plants found fossilized in rock. The object of this science is to unfold the past his-tory of our world as it is thus revealed to us by the remains of ancient life im-bedded in the layers of the earth's crust. Dr. Walcott shows where a new point of view is opened by the study of anne-lids or fossil worms. The fact that from onel ocality eleven genera belonging to Sept. 12, 1911.

-J. B. Miller.

LAST OF MYSTERIOUS AMERICAN RACE CAPTURED

Indian tribes, Ishi, captured near Oro-

L OS ANGELES people may have an opportunity the first week in Octor to look upon 18hl, the last of this unknown tongue. If this man had not been captured and his vocabu-tober to look upon 18hl, the last of the most ancient tribe of ab-origines native to what is now California. As the sole survivor of the once vast and powerful people who are older than the oldest of contemporary indian the lost of contemporary indian time a tribes libit cantured or contemporary indian time a tribes libit cantured or a contemporary indian time a tribes libit cantured or a contemporary indian time and first time time and the public and if 18ht is ever removed.



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wonderful tonic and reconstructive of the article. Apropos of this it may physicians as the standard treatment for the liquor habit. The seai the pathway to relief and redemption is as clearly defined as the for the liquor habit. For full particulars call upon, write or phone the Neal Institute, 341 So. the seek may easily find.

IN BATTLE THE BIG TURRET

The 5 inch guns are of no use at such

though in themselves very formidable weapons, are not meant for use in bat-tle at all. Under such circumstances, indeed they would not even be fred-