## THE SUN, SUNDAY, AUGUST 19, 1917.

# OUR NAVY AVIATORS HAVE DONE MUCH DESPITE HANDICAPS

Initiative in Marine Flying Early Taken by Small Group of Pioneers and Maintained Despite Odds

THE United States navy should, by right of priority and initiative in aviation, lead the world in the field of marine flying. The American public knows but little of the really big things done by a handful of ploneers in the service to put us at the forefront of the art.

Well nigh every day news come from abroad of the conspicuous service rendered by seaplanes as distinct from the strictly military or army aeroplanes, and while we may be thrilled, by these performances only a few people here realize how much these accomplishments rest upon the sure foundation of pioneer performances on this side of the Atlantic. British seaplanes have achieved wonders in guarding the coasts of the British isles. British scaplance have repeatittoral held by the Germans; and aircraft of this character sooner or later are going to make Zeebrugge and other submarine bases untenable

The enemy has been equally re sourceful in his employment of the marine flying machine, and a good many vessels have been halted and others placed in hazard by the sudden arrival of scaplanes overhead. More than this, the Teutons have taken a step in advance by using nautical aircraft as mobile bases from which to However, they alone cannot guar-drop bombs or to bring rapid fire guns antee success, and here again we are into service. They have bodily cribbed face to face with one of the conse-admiral Fiske's invention and demon-Admiral Fiske's invention and denion strated the entire practicability of the past. In the case of aircrait di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from struction the work is extremely di-launching torpedoes effectively from structure to the structure torpedoe effectively from structure to the structure torpedoe effectively from structure aunching torpedoes effectively itom versified, exacting and in well the larger seaplanes. British censors versified, exacting and in well the larger seaplanes. British censors versified, exacting and in well the bave allowed us to learn of the sink-have allowed us to learn of the sink-have allowed us to learn of the sink-ized. With private establishments now

Only the other day a French liner reached this side of the Atlantic largely because hostile submarines were disconcerted twice and driven away by rotecting scaplanes when seeking to set close enough to torpedo the passenter steamer. For two days after leaving her home port the liner was convoyed by relays of seaplanes operating from a French cruiser equipped to play the part of oceangoing mother

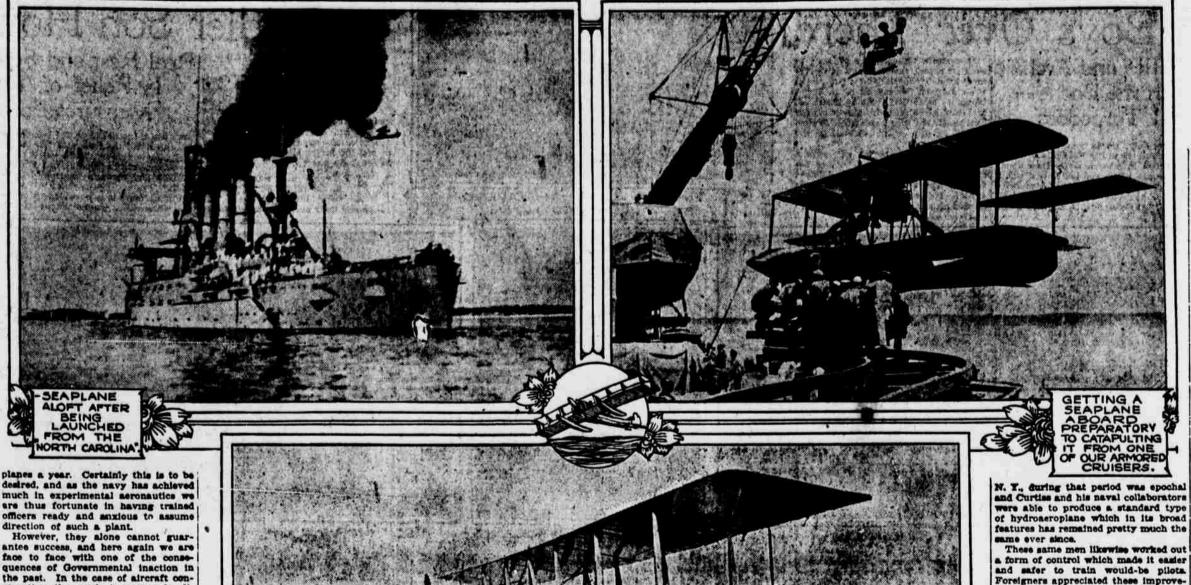
submarines dared not show themselves during the daytime. Both attacks were attempted when the light was dim; the first when night light was dim; the first when night England owes a good deal to the work had fallen and the second on the fol-lowing evening during the period of dusk. The convoying aircraft were alert upon both occasions.

### Navy to Build Alreraft.

Despite the condition of low visibillty at twilight, the venturesome U-boat, rising to the surface to make sure of her aim, was caught napping. Before the submarine could hide beneath the waves one of the seaplanes wooped speedily down until she was only a few hundred feet above the enemy craft, and then, in rapid order dropped half a dozen bombs, two of which landed squarely upon the sub-marine. The U-boat was mortally hurt and sank like a stone.

small handful of men in the service These are things that American that up to the early part of the year naval aviators might have been doing hefore naval aviators might have been doing several years ago if the work of their brother officers and the efforts of co-of marine aviation. operating civilian experts had re-

Pioncers of Navy.



as a potential aid to the navy. And it as recently as March 3, 1915, our na-

ONE OF OUR HIGH - POWERED NAVAL SEAPLANES.

mont Park and a number of Amer- | effect this an initial sum of \$25,000 was | of the Navy and his advisers did not. | U. S. S. Pennsylvania. The hydroaero ican naval officers were directed to be suggested, and it was proposed that however, dampen the ardor or effec-present. an office having to do with aeronau-tually check the enterprise of the lifted aboard by the ship's boat grane

join efforts in effecting a flight from a the present pies to Congress for \$45,-United States man-of-war. Glenn Cur-000,000 is all the more instructive. his fuel failed him with Morro Castle McCurdy and Curtiss, and naval avitiss responded willingly and Eugene Aviation in the navy, at least techni- in plain sight twelve miles off, and he ation took on a spurt in Europe and of the equipment of fighting aircraft. Ely, then alive and associated with the cally, has advanced despite depart- was obliged to alight upon the water. Curtiss company, cooperated in a man-ner that brought the naval possibilities bilities and in the face of actions his aeroplane had been provided with of aerial scouting, and the technical was that of balancing his machine

along and on November 12, 1910, Ely as a rule have been the richest bene- These floats may not improperly be tations had something substantial been

Chambers, one of the officers in ques-tion, tried to get one of the two com-peting American airplane concerns to

for aeronautics was given. Largely because of governmental inaction American Aeroplane builders found little domestic encouragement

of flying strikingly before the world. Officially the Navy Department as a couragement. Indeed, persistent en-whole was doubtful in its attitude, but the enthusiasm of Curtiss, Ely and cers has kept the flame of invention Capt. Chambers carried the project and improvement alive, but foregeners likeliest solution of the aviator's weari-

Foreign Governments Quick to Develop Ideas Worked Out Here -Department's Awakening Late

repair have done epoch making work in evolving hydroplane floats and in improving the scaplane in a number of ways. The novel experimental basin at Washington and also the wind tunnel there have figured conspicuously in these evolutional labors.

#### Credit Due the Navy.

In connection with these develop-ments Glenn H. Curtiss helped still further by devising a way by which the flying boat could land on shore as well, employing for the purpose wheels that could be lowered to provide the needful support upon alighting. That was the machine known some years back as the "O. W. L." type, the short for "over water and land." This happened in 1912, but the march of events in aviation was more urgent in other lirections, and for the nonce the flying world forgot that extremely prom-ising knovation. It has since been found well worth adoption abroad. To American naval officers credit is

undoubtedly due for discovering the value of the airplane as a means of stecting submerged submarines. In the summer of 1912 the naval aviation camp at Annapolis and some of our submarines collaborated in the nearby waters of Chesapeake Bay. Chesapeaks Bay is always more or less muddy and the submarines found lit-tle trouble in hiding when resting quietly upon the bottom, but the aviators soon learned to locate them by means of splotches of oil upon the bay's surface and the occasional rising

of masses of air bubbles-telltale evidences that are to-day recognized in hunting hostile U-boats from aloft. ments and were quick to alter their Probably nothing developed by our

navy has done more toward widening potentially the maritime use of the flying machine than the catapult or launching device made practicable by Capt. Chambers. Something of the mind and the professional grasp of sort was absolutely necessary before the seaplane could be made an integral all times deeply interested in aviation part of fleet scouting along lines akin to those that have become so common is quite probable that but for his stand upon the battle fronts of continental in the matter and his position as presi-Europe. Capt. Chambers realized that dent of the General Board Congress the seaplane, no matter how sturdy, would not have appropriated the \$25,000 authorized in 1911. would find it next to impossible to rise from a boisterous sea, and in order to make a reconnoissance flight feasible he believed that some compact struggle in the navy until of late. and and reliable apparatus aboard ship tional legislators authorized the first should be provided in order to send the

really substantial sum for aeronautics. scouting machine away from its navi-Then it reappropriated out of balances gable base. of other appropriations a matter of \$1,000.000, but did not make this Crude as was his experimental apparatus, it was sufficiently perfected amount available until the European in the course of some months as to war had been under way for nearly a year. At the same time authority for mbody sound and satisfactory operathe creation of an advisory committee

views and prompt in copying every-

Flying Interested Dewey.

It is evidence of the broadness of

Admiral George Dewey that he was at

Even so, aviation has had an uphill

thing they could.

tive principles. It should be a source of gratification to Americans to know that a goodly number of our battlecraft are now equipped with catapults of an improved sort which put us ahead of other nations, and the and native manufacturers gave scant apparatus is so skilfully designed that heed to safety devices and the navigait can be quickly assembled or dis-mantled and puts practically no handitional instruments which have since multiplied and become recognized parts cap upon the fighting of the vessels guns

There has been a disposition in some directions here to lay undue stress upon the work of the British and the French navies in a kindred field. The experts of both of these foreign fleets have simply borrowed generously from the labors and the accomplishments of our people and have in no wise

ceived adequate encouragement. In-stead, our allies and our foes have se-cured a running start, and the best it is fitting now that the public should we can hope to do now is to catch up by a tremendous effort. We have got to pay doubly for the years of ad-ministrative indifference. Mr. Daniels few weeks to appropriate \$45,000,000 for naval geronautics, and it is probfew weeks to appropriate \$45,000,000 that the nying machine way when the questionably was, it occasioned but lit-for naval aeronautics, and it is prob-to be reckoned with. When the questionably was, it occasioned but lit-for naval aeronautics to say that fully Wright brothers were making their the comment on this side of the Atlanably no exaggeration to say that fully half of this sum is the penalty immodest demonstrations at Fort Myer tic, and yet that courageous blazing of vania. It was a hazardous essay, be-in 1998 an officer, Lieut, G. C. Sweet, the way has brought in its train imi-cause of the twofold problem of strik-or more naval officers in the art of United States and reported adversely posed for inaction heretofore. As a step toward making up for lost then attached to the bureau of equip- tative wonders among the battle fleets ing the inclined platform squarely and ment, called to the Department's at- of the European belligerents. True,

working to capacity and heavily handicapped by a scarcity of trained

craftsmen to draw upon the question

suggests itself, Where will the Navy

skilled operatives required?

Department be able to obtain the

A Government aero plant should be

a valuable national asset and would

probably be of more material assis-

tance if primarily conceived as a

laboratory or an establishment for aeronautic research on a large scale.

Some years ago this very thing was urged by Capt. Washington I. Cham-

ters, U. S. N., and he pointed out many reasons for just such an institution.

England owes a good deal to the work

Gustave Eiffel, while Germany would

never have been prepared as she was in aeronautics but for the handsome

sums granted for experimental work.

Our naval experts in aviation are

now in a fair way to have a chance which has long been denied them, and

there is every reason to believe that the American fleet will forge rapidly

to the front in the matter of flying.

Despite lack of money, difficulties in

getting officers detailed for aeronautic

instruction and the general attitude

of indifference, it speaks wonders for

time the Navy Department has de-dared its intention to establish a million dollar air craft plant at League Island, Pennsylvania, and it is said rons.

that Mr. Daniels counts upon having As most of us can easily recall, aviation grasped the essential fact that the factory ready to begin production Gienn H. Curtiss stirred the aeronauscouting from aloft would be of incalby the end of the coming October. By tical world in 1909 when he went culable value to a squadron com-way of satisfying the demand for abroad and captured the most desired mander and realized that the problem way of satisfying the demand for fighting flying machines the Secretary of air prizes. This evoked interna- before them was to bring about modi-of the Navy says that the League tional competition and a year later led fications that would permit the air-Island establishment will have an to an aviation concourse on this side of plane to be carried on shipboard and of our naval preparedness. Island establishment will have an to an aviation concourse on this side of plane to be carried on shipboard and of our naval preparedness. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval aviation. Mr. Curtiss was able to rise from the the development of naval f

but those really interested in naval or harming the pilot. The same day Ely flew away from

bay and alighted upon a platform built of Navigation. But even before this eminent European aviators were out-for the occasion upon the after deck of financial crumb of encouragement was spoken in their belief that the hydrothe U. S. S. armored cruiser Pennsyl- offered Gienn H. Curtiss had volun- aeroplane was impracticable, and Napiloting fiving machines. The Navy upon this field of possible development tention the potential service of the the land machine was manifestly un- chine so as to bring it to a standstill in tailed just one officer. Lieut. T. G. Glenn H. Curtiss believed otherwise, airplane as an adjunct to battle squad-fitted for naval adoption as it stood, a short distance without wrecking it Ellyson to the Curtiss camp at San and it is a matter of general knowl-

Diego, Cal. This was in the first month of 1911, sistent labors.

tion one finds it hard to explain the which could be secured to the regular the Curtiss company for the navy.

some and even exhausting task of gov-

achieved in this department of naval It was then that Elmer A. Sperry aviation. When our ships were sent to Vera proposed a gyroscopic stabilizer. The

officer in charge of naval aviation told Cruz in 1914 our naval aviators proved there what they could do with their the inventor to go ahead and promised to buy the apparatus when fit for in- seaplanes. This was before the outstallation. Naval aeronauts even lent break of hostilities in Europe, and their aid and helped by their experi- the performances on the Mexican ence to make the Sperry stabilizer a coast may very properly be considered reliable instrument of control. pioneer in their character.

This in no wise lessens the credit due the inventor, but is further proof of our service in the matter of flying the unheralded part that the navy it is little short of amazing how many then of checking the speed of the ma- Department accepted the offer and de- Just the same, some naval officers and flyers of the United States have taken chine so as to bring it to a standstill in tailed just one officer, Lieut, T. G. Glenn H. Curtiss believed otherwise, in promoting the art of aerial naviga- be faced by the officers engaged in tion. It is rather suggestive, however, that the flying machines of our fleet in nearly every direction by inadeedge how success rewarded their perhave not yet been provided with any quate allowances of money and a lack

the ship and returned to San Fran-cisco. With this lead in nautical avia-gether evolved a hydroplane feature hydroaeroplanes were ordered from happened very recently, while it is part of the head of the Navy Depart-hydroaeroplanes were ordered from happened very recently, while it is part of the head of the Navy Departcommonly reported that Mr. Sperry is ment. Even so they risked life and failure to push on and to make flying land flying machine. After something thanks to the initial \$25,000 granted turning out a great many of these de- limb and gave of their mental best an integral and an important branch like a month or more of experimenting by Congress for experimental work in vices for foreign Governments. Officers of the naval flying corps the art has made the progress it has

Looking back over the annals of were the discouragements that had to naval aviation. They were hampered

unstintedly. This spirit explains why

#### YORK HAS LONG HONOR ROLL PATRIOTIC CITIZENS WHO. AID OF NEW HERE is an honor list tucked "War between Germany and the wanted to sive his yacht Nome to the away in the Government files United States is coming as sure as Government for war purposes he was our final break with Germany. When time to cooperating with the Governthrough this yacht's serving up to the here that Germany will not consider there appeared to be a likelihood of ment. All private endeavors and confine standard set by the former Corconverted yachts as part of the recogfull steam ahead.

THERE is an honor list tucked,

contribution, they stipulated.

at Washington which contains the names of prominent Americans

who are rendering conspicuous and disinterested war service to the nation. task easier."

It is not available to the public because these men have asked that they be allowed to show their patriotism the Foreign Legion or the aviation uietly and with no other reward than that which comes of their own sense f duty well performed.

But with the consent of officials a and meant to find one then and there Sun man has had a peep at the list "Suppose each of us chips in \$100,-and he finds those at the head of it are 000 or some such amount for Amerinearly all New York men, and men can ambulance and Red Cross work," those activities along other lines are was a casual suggestion. The idea was jumped at. In less daily attracting attention. Incidentally

the city of New York has earned the than half a minute the funds were ace among American cities, pledged and arrangements outlined to make the plan effective. The only point on which every one present infor it has, even at the expense of its own laws and regulations, come for-ward to extend much needed help to sisted was that the names of the individuals who made the contributions

the Government. In explaining why little has been said about the service being rendered by prominent New York citizens to the national cause reference may be made to an incident in Paris in the early days of the war. This incident seems now to have set the fashion in render-ing service without expectancy of pop-ular acclamation. If is not permitted to give the names of the little group to give the names of the little group of New York men who were directly concerned except to say that Robert Bacon was one of them and knows all a shout it. But it is permissible to give a general outline of what happened. These Americans were smoking their after dinar cigars together one even ning when disappointment was ex-

the in the stringle of the do the United Ste against German plans for pation

task easier." Was told. "It sounded like red tape to Mr. Astor U-boat campaign. That was last year, the may and the naval reserve. He the Corsair did not want to give up only as it here in the cause. The men could best help the cause. The men could not enter inght best be cut. He knew the Gov- to wait until war was actually here tively speaking he toke his coat off the nave to the the cause. The men could not enter inght best be cut. He knew the Gov- to wait until war was actually here tively speaking he toke his coat off the nave could do their bit. forward. Nearly the cause to the aviation or the aviation or the aviation or the aviation of the formant needed ships, and badly, and before offering his services to the na- and at once buckled down to the task. Many succeeded. Where red tape in- Nearly the cause is the cause in the cause is the cause offering his services to the na- and at once buckled down to the task. Many succeeded. Where red tape in- Nearly is the cause is the he knew that the Noma, which had service, for all were past the age limit. been his most prized plaything, was ing to make them really worth while. a pretty good ship of its kind. Inci- What he learned was enough to con-Besides, they were not military men. But they wanted to help in some way, dentally, he knew, that it would cost the Government tens of thousands of

cold cash to build a ship even ap proaching the Noma, to my nothing time and labor.

But there was Government red tape binding Mr. Astor to put out of his mind any thought of rendering American sea forces more efficient by a

well, if the Government can't take the yacht perhaps it can buy her from me," Mr. Astor suggested. were not to be made public. It was to "There is nothing in the law which be known as the American ambulance rohibits that."

contribution, they stipulated. More than a year later, when the funds provided by these New York mea were saving thousands of lives and making American hospital work a model throughout the world, Mr. Baccon was saked at the Rits Hotel in London whether it would not be pos-sible to get the names of the little for the work. "Decidedly not," he replied politely, "We have agreed absolutely to elimi-in the work." And so to this day no the fine denors themselves, "We have agreed absolutely to elimi-in the work." And so to this day no the donors themselves,

tion, for he felt that he needed trainvince Mr. Astor that his duty was to set ande all other considerations ex-

naval militia, going in with the same chance for promotion as any one else. "I hope to become an ensign some

way," he said, when asked what his ambition was at that time. He rose delighted when he learned later that

he had been assigned to his former yacht, the Noma, but he made it clear not regarded as competent.

and at once buckled down to the task. Many succeeded. Where red tape in-The value of his service has now be- terferes, it is as far as possible being come strikingly evident at Washington. | cut. The navy feels that these men will

cept prospective war service. He en-for the service he rendered was de-listed in the Second Battalion of the cidedly out of the ordinary. When our Harold Vanderbilt, who is on

Astor and Mr. James, looked forward that the submarine chaser would be an practical action and simply won't have the city to the Government. The to the proud day when U-boats should all important factor in ridding the seas his hands tied with red tape. catch it from guns mounted on a ves- of the U-boat pest. He felt and was taken into the regular services at the outbreak of the war. He was reached him that the submarines were gard to expense would be able to cope ing his yacht Owera to the Govern- and the services of their entire staffs mounting four and five inch guns and with the most modern submarine

"All right," was the reply. "What will you sell her for?" "One dollar." The bargain was sealed. The Noma is now rendering splendid service, and no Government a cool account of herself. Her target between the bargain was sealed. The Noma is now rendering splendid service, and no Government fications was gone over carefully by pleted. "But there's one accessory the city's desire to be of service. Many in New York have offered the Mr. Baker without bias. He came to I'd like very much to have you keep Mayor Mitchel has cooperated whole- Government the'- country places free

The name of J. P. Morgan is well up be aboard as he desired.

Robert E. Todd, former Commodore

United States is coming as sure as night follows day," one man predicted. "But in the meantime we must appar-ently be mere lookers on while others blaze the way to make our ultimate biase must individuals," he was told. United States is coming as sure as devented the cooperating with the Government of the recog-sair, which was renamed the Giou-base the way to make our ultimate the dividuals," he was told. United States is coming as sure as dividuals," he was told. United States becoming involved the patriotic spirit of the saw a spare of usefulness for him in help-the Corsair did not want to give up only as an incentive to the class of Park, where the may, began putting the part of the recog-sair, which was renamed the Giou-sair, which was renamed the Giou-the united states becoming involved states beco

American yachtsmen who are coming up barracks to house and train 4,000 Nearly all the prominent New York- Ferries in New York turned over piers ers who since last April have been and buildings belonging to the city. making every effort to get a chance at The technical question of "right" to do George Baker, Jr., the present com-make up in spirit and patriotism what the U-boats are men over thirty-one so was ignored. The fact that the modore of the New York Yacht Club, they may lack in technical naval train-and not liable to conscription. In some nation was at war was the only the U-boats are men over thirty-one so was ignored. The fact that the

has a unique place on the honor role, ing. The training can be acquired, cases these men have had to fight to thought. have their services accepted, but they "Do it first and then think have overcome obstacles with the help your right to," was the slogan.

> bis hands tied with red tape. Senator Peter G. Gerry of Rhode including the most prominent archithat this

won his fight.

in the honor list because here red!

tape and moth saten regulations were simple statement accompanying many cut away wholesals in deference to of, these offers.

heartedly. The situation in the early of cost for use as hospitals or recupdays of the war became such that eration stations for officers and men. Yacht Club, is also well up on the stead of giving her for Government honor list. Not only has he given his service he bought a new yacht at an yacht the Aloha to the Government expense of something like a quarter of for war estrice but he has worked like a million dollars and told Uncle Sam the second naval district. He will ing. Time was essential, but the only move all the furniture and surround legal procedure in sight was to follow ing equipment, install hospital beds, the regular channels, obtain special &c., at their own expense. The total at the concest the source of t

war was begun he wanted to give his honor list, has shown such spirit. He of Franklin D. Roosevelt, Assistant Offers of assistance from various yacht to the Government and, like Mr. believed in the early days of the war Secretary of the Navy, who believes in classes of men began pouring in from

ment because he was a member of in rushing new buildings to complethe Senate. He introduced a special tion. Civil engineers with their entire bill authorizing him to do so, and staffs came to the front offering their services gratis and agreeing to charge New York city won its place early Uncle Sam nothing for their staffs.

in. The Department of Docks and

"Do it first and then think about

"We want to do our bit." was the

that some of the craft being used in which Germany could turn out. He European waters to hunt them were therefore built one at his own expense and turned it over to the Gov-

the conclusion that while good enough on board if it can be arranged." berhans she might be better. So in-"What's that?"