

GIANT DIVERS AS FREIGHTERS TO BEAT U-BOATS

Underwater Craft, Blind to Other Ships Below Surface, Could be Evaded or Conquered by Monster New Type, Declares an Inventor Hailed as Successor of Edison.

Editor's Note—It is significant that people who know take no stock in the strange tale of W. L. Sanders of the naval consulting board that a way to fight the submarine effectively has been discovered. This interview with John Hays Hammond, Jr., who is being hailed as the successor to Tom Edison, was given to the Mail Tribune after Sanders' unauthorized and probably unfounded announcement.

(Staff Special.) BY J. H. DUCKWORTH. GLOUCESTER, Mass., May 14.—Great freighters, traveling under water, invisible to German U-boats—because U-boats cannot see each other under water—may be the solution of the problem of getting food to America's allies. This is the opinion of John Hays Hammond, Jr., who discussed the submarine situation today in his radio research laboratory overlooking Fresh Water cove. Hammond is the man who invented a torpedo that can be directed from shore by wireless. Here the young millionaire, who has the largest private wireless plant in the world, is working on anti-submarine devices for the United States government.

Surface Submarines. Hammond says Germany may be considering building submarines too big for chasers to handle and big enough to fight destroyers on the surface.

"The U-boat is becoming increasingly menacing," said Hammond.

"It is becoming less and less dependent on the torpedo as its chief weapon. It is now a big boat, affording a fairly good platform for a six-inch gun with which it can attack anything up to a destroyer. Small, unprotected patrol boats armed with small guns are no match in a race fight with a modern U-boat. The submarine is becoming more and more self-protecting. From a technical standpoint there is no reason why they should not go on increasing in size. The greater the displacement the more guns they could carry.

Battle on Surface.

"The day is coming when the U-boat will be able to challenge the destroyer on the surface. They will then be able to break through the screens of destroyers and directly attack capital ships of a fleet.

"If our present tactics of hunting down submarines with chasers should prove ineffectual then we shall have a big problem to deal with. Wire nets have already been abandoned by the United States navy as a protection for warships. They cannot withstand heavy weather and they slow down the speed of our ships.

"There is a possibility that ships may be built to withstand the explosion of a torpedo. Modern battle-ships have now large cellular spaces on the bottoms and sides. Shocks are taken up by these watertight spacings, leaving the body of the ships uninjured.

"The Marlborough in the Jutland battle was hit amidships by a German torpedo, yet she stayed in the fight to the end and then made for her base at a speed of 22 knots. This proves that ships can be made invulnerable to torpedo attacks.

Speed Best Protection.

"Cost, of course, would make this kind of construction for merchant ships impracticable.

"Speed is the best protection for merchant vessels. Shipbuilders must design for greater speed.

"Decreased cargo carrying space will be compensated for by the greater number of trips made. If the big cargo carrying vessels carry on their decks small high speed torpedo-boats with guns they could be lowered over the side when the danger zone is reached and form a protecting and form a protecting screen. I suggested this on Feb. 4.

"Americans must not expect too much from mines. British submarines themselves went under the mine fields in the sea of Marmora and attacked Constantinople.

"It is possible that in the latest German submarines there is a device invented by Simon Lake by which the crew in diving suits can get out through an air chamber when their craft is submerged and cut away anchored mines and allow the flotilla to pass safely through the mine field.

Electric Detectors.

"Much experimenting has been done

GIVE UNCLE SAM YOUR TIME DURING VACATION PERIOD

NEW YORK, May 14.—The United States government will receive the services of nearly 5,000,000 men and women, if the "Vacation Service" movement started here is carried out according to the plans originated by Prof. Francis B. Crocker, formerly of Columbia university and a past president of the American Institute of Electrical Engineers. The movement means that the government will receive about 10,000,000 weeks, or more than 192,300 years of the time of these men and women, who will give their vacations to their country as their patriotic duty. Prof. Crocker expects that his plan will be adopted all over the country.

"Realizing that there are many who cannot enlist," he said, "and who are unable to participate in the Liberty loan as heavily as they wish, this means of national service was evolved. "This war is the most serious crisis the United States has ever faced—the work of every man, woman and child is needed to bring it to a successful conclusion. Every hour given to the government is an hour gained in bringing the war to an early end. Understanding this, the 'Vacation Service' movement was started. Everyone in the United States that takes a vacation, and it is estimated that there are five million such, can do his or her bit by giving their two weeks to government work.

"Thousands, perhaps hundreds of thousands of these are specialists in their various trades or professions—they can give the services of experts. Others can put in their time on farms helping to solve the vital food problem of the world. Think what it would mean to the farmers if they were able to avail themselves of 100,000 years of the time of willing workers, who worked because they were patriotic. There are hundreds of other tasks in which these patriots could help their country.

"Every person willing to do this should apply to the nearest government depot or arrange to spend their vacations on the farms. Organizations should be formed in every city and these should enroll the vacation workers and assign them to their tasks."

In this district the lead has been taken by the Crocker-Wheeler company, electrical machinery manufacturers of Ampere, N. J., whose engineering and clerical force are enthusiastic over this chance to serve their country. Other large manufacturing concerns are falling in line and it is expected that thousands of their employees will give their vacations to Uncle Sam.

PATENT GRANTED TO MEDFORD INVENTOR

Patents granted to citizens of Oregon, May 8, 1917. Reported through the office of R. G. Park, Jr., solicitor of patents, Washington, D. C.

Orley R. Aubrey, Holbrook, adjustable logging sling.

Belle F. Bailey, Portland, combined baby hammoey and swing.

Joseph D. Denburger, Lents, mail-catching and delivering apparatus.

William G. Ellis, Dallas, jar-holding device.

Charles Johnson, Seaside, street sweeper.

Wesley C. Jones, Portland, computing attachment for dialseates.

Henry M. Lambert, Portland, assignor to Lambert Multiplus Co., Phoenix, Ariz., cushion tire for vehicle wheels.

Floyd E. Land, Medford, clutch mechanism for transmission gearings.

Hugh W. Nutt, Naimar, clamp for well-polished rod.

John W. Ruben, Portland, soaring aeroplane.

Thomas Warner, Oregon City, automatic means for regulating pulp-stock.

with electrical detectors, delicate instruments to warn of the approach of submarines, but without much success. Owing to the fact that salt water is a fairly good conductor of electricity, certain electrical phenomena is upset.

"It looks to me as though Germany's submarine campaign were doomed to failure, unless she puts at least 1,000 submarines into the water. She cannot accomplish much with the number she has been operating.

"In the event of the U-boat growing to such formidable proportions, however, that overseas surface commerce in the future could be annihilated, it would be necessary to build big sub-sea freighters.

"These would foil the U-boat. Germany cannot use submersible tramps for the simple reason that she now has no friends with whom she can trade."

BRITISH SOLDIER IMPRISONED FOR FEEDING CHILD

LONDON, May 14.—For giving a few crackers to a half-starved German child—48 hours in solitary confinement.

That is the punishment given a British soldier during the rule of Baron Von Tauber, according to British soldiers who escaped from the German prison camp of Ruhleben.

The soldiers say von Tauber's severity transcended anything ever known in the history of treatment of prisoners of war by civilized nations.

His favorite method of punishing British soldiers was to send them to solitary confinement in a stone cell with plank bed and one thin blanket and on a diet of bread and water.

The case of the unfortunate soldier who in pity fed a German child from some of the supplies sent him by relatives in England, was the worst, but there were others—almost as extraordinary.

Here are a few samples:

Forty-eight hours for waving a handkerchief from a window.

Seventy-two hours for reading an English newspaper.

Seventy-two hours for smoking in barracks.

Forty-eight hours for laughing aloud.

Forty-eight hours for saying of a snoring German, "there goes Sherlock Holmes."

Forty-eight hours for dropping paper cover with bread into bread box.

The Germans gave them a so-called

GRIDLEY LAND OWNERS SEIZE WATER SYSTEM

OROVILLE, Calif., May 14.—Fifty landowners, patrons of the Gridley Land & Water company, have taken forcible possession of the water system to save their crops on two thousand acres, it became known today. The seizure took place yesterday.

A long controversy between the land owners and representatives of the water company relative to time of payment of irrigation supply resulted in the shutting off of the water. Crops were threatened with destruction. Water users proceeded to open the flood gates, placed their own guards in charge, irrigated the crops and then notified Superior Judge Gregory of their drastic action today, after declaring they would submit peacefully to adjudication of the issue to the state railroad commission. The commission had previously fixed June 5 to hear evidence in the case.

Meanwhile the water users declare, they will remain in charge of the system using such water as is necessary to save their crops.

gravy made without meat. This meant the men were reduced almost to the verge of starvation.

They were kept without heat until the last of October, when a baby engine dated 1877 was rigged up. It would not work properly. There was no provision made whereby the men might dry their clothes. Many succumbed to illness and the death rate among them was on the increase.

BELGIAN LEADER FAVORS SOCIALIST PEACE MEETING

COPENHAGEN, May 14.—Emile Vandervelde, the Belgian socialist leader and minister of munitions of Belgium, is quoted by the Social-Demokraten, the Stockholm socialist newspaper, as declaring that he supports the peace conference to be held in the Swedish capital by the socialists.

M. Vandervelde yesterday attended as guest, a meeting of the Scandinavian committee in Stockholm, the Social-Demokraten declares. Other guests were Camille Huysmans, secretary of the International Socialist congress, H. H. Van Kol, socialist member of the Dutch parliament; M. Roubanavitch, and a representative of the Russian socialist revolutionary party, and Jephie Borgbjerg, the Danish socialist leader.

LONDON, May 14.—The statement of the Stockholm Soletia Demokraten that Emile Vandervelde, the Belgian minister of munitions is supporting the socialist peace conference at Stockholm is not in accordance with his reply with French interviewers at Copenhagen. In his statement to them he stated that he refused to participate in the Stockholm conference, as he considered it would have the effect of engendering doubt as to the determination of the allies to hold firm until a durable peace was guaranteed by victory.

With Medford trade is Medford made.

Rheumatism Should Be Nipped In The Bud

Rheumatism in its early stages may elude you into believing that it is a disease of a purely local and temporary nature. Beyond a slight numbness of the limbs and pains in the joints or back, there may be no outward indications of it, but if you do not heed these warnings, or if you rely upon liniments to cure you, it will grow rapidly worse until you have Rheumatism in its most violent form. These symptoms, mild in the beginning but growing steadily worse, indicate that your blood is impregnated with Uric Acid, which, if not eradicated, will contaminate your entire system. The results will be racking pains in the joints, muscles and limbs, chronic stomach troubles, and a sluggish liver. The only relief is in the restoration of the blood to its normal, vigorous condition, which can be accomplished by taking S. S. S., the unfailing remedy for rheumatic troubles. Our Medical Department is at the disposal of all users of S. S. S. Swift Specific Co., 303 Swift Building, Atlanta, Ga.



THOUSANDS TICK IN UNISON
Every hour, 65,000 clocks are set by Western Union Telegraph. Clocks that ring bells in schools; clocks that blow factory whistles; clocks that flash signal lights; important clocks everywhere—all owe their accuracy to **WESTERN UNION**
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