

TRIUMPH OF THE SUBMARINE.

On July 13, 1912, in the course of Great Britain's war with the United States, over the right of neutrals, H. M. S. Ramilies was lying at anchor off New London, blockading that town. The Ramilies was commanded by Captain Hardy, the Hardy of Nelson fame. The deck stony on duty, happened to look astern, observed an object rising to the surface close to the ship. He sang out, "Boat show!" On this the submarine for such it was immediately disappeared. An alarm gun was at once fired, and all hands were piled to quarters. The cables were cut and the vessel got under way. Once more the mysterious stranger rose to the surface, but before the guns could be trained upon it it dived again, and fastened itself on the keel of the British ship. There it remained for half an hour, during which time the man who was in it succeeded in drilling a hole through the copper of the Ramilies, and the screw with which he was attaching the explosive to the bottom broke, so that the attempt to sink the ship failed. The account of this attack on his ship is given by Captain Hardy in his autobiography, and he adds that the inventor of this diving boat was stated to be able to propel it at the rate of three miles an hour under water, and could ascend and descend at pleasure.

THE BEGINNING. It would be a long story to give an account of all the submarine boats which were actually made and used with more or less success from 1792 to 1796; but in 1776, in the war between this country and the American colonies, no fewer than three unsuccessful attempts were made upon English war-vessels. The submarine in its first case came in contact with the bottom of the ship, and the attempts to sink them only failed on account of the difficulty experienced in attaching the explosives to the copper-plated hulls. In 1797, Robert Fulton, the distinguished American inventor, designed a submarine and strongly urged its use by the French in their war with this country, and in 1801 a submarine, built under Fulton's directions with funds supplied by Napoleon, was launched on the Seine and was named the Nautilus. This submarine in its trials remained under water at a depth of over twenty-two fathoms for one hour, and demonstrated its offensive powers by blowing up an old schooner at Brest in August, 1801, by means of a torpedo; while it made an under-water run of five hundred yards in seven minutes.

If the submarine to become the rod-like badius of the narrow seas? Are these arteries of the world's commerce, once infected by this iron brood, to become uninhabitable by the battleships of the modern war fleet?

The French, across the Channel, have as many as one hundred of these uncanny little craft, while up to the present there are sixty British boats either built or building. Our first submarine was launched at Barrow-in-Furness about six years ago. Since that date we have steadily built every year in numbers which have steadily increased. In 1902, for instance, we built six, and in 1903, ten, and in 1904, twelve, and in 1905, fifteen, and in 1906, twenty, and in 1907, twenty-five.

Undoubtedly, the general consensus of opinion in America, France, Great Britain, Germany, Italy, Japan, Russia, and indeed all nations possessing any pretence to a sea power of however small extent, is to confer the permanent importance of the submarine.

PREDICTED DEVELOPMENTS. The rats of building and the size of the vessels built are increasing everywhere. Commander Suter, in his book on the "Evolution of the Submarine," and many of the weighty authorities whom he quotes hold the view that not only is the submarine coming to stay, but that in the immediate future its numbers will multiply very largely. Not only is the submarine destined to be of enormous importance to the navies of the greatest maritime powers, but the possession of these boats much better returns for money expended than can be obtained by the purchase of second-class battleships and small cruisers of even the best construction and fitted with the most modern equipment.

The submarine boat, however old, if kept well in repair and in an efficient condition, armed with the latest pattern locomotive torpedo, has always the means of inflicting a blow that will place a hostile ship in a precarious condition until she reaches port, even if nothing worse happens. The cost of a submarine may vary from \$100,000 to \$200,000, according to its tonnage. This cost is at the most not more than about one-half the amount expended upon a first-class torpedo-boat destroyer, while for every battleship costing a million pounds or more, it is necessary to build at least twenty submarines of first-class construction can be obtained.

The present-day submarine can travel under its own power and in the severest weather as much as 500 miles, as was actually the case with two Russian vessels, which travelled under these conditions from Libau to Cronstadt in 1905. These two vessels were not, however, used in the Russo-Japanese war for the very good reason that there were no crews sufficiently trained in navigation and manoeuvring to render it possible to employ them with safety.

The successful submarine navigator, unlike the poet, has to be made by practice, and is not born to the art. Starting with well-disciplined man-of-war men, a period of about one year is necessary in which to enable seamen to obtain the special experience which is essential for crews of this type of vessel if the submarine is to become an effective fighting unit.

IN ATTACK. What can a submarine, properly manned, actually accomplish? It can travel under favorable weather conditions at thirteen knots in surface trim, that is, with its coming tower

and back above the water, while under way it can run at nine knots. The effective radius of action of one even of the smallest type of this vessel is four hundred miles from the coast on the surface and twenty-five miles under water. If the course of an enemy's ship is approximately known and the submarine is within a certain distance of this course, a distance which depends upon the speed of the war-vessel and the speed of the submarine itself, it can, even if its attack is expected, successfully torpedo the warship, although it may be travelling at full speed, while it itself will remain quite unseen. Probably a chain of submarines, spaced a mile apart from each other, would completely clear the Straits of Dover against an enemy in the daytime, while the blockade of a coast defended by this class of vessel might become quite impossible in any ordinary sense of the word.

The only practicable means of attempting defence for a battleship of the usual type against these invisible foes is either to travel at the highest speed, and therefore without torpedoes, or, on the other hand, to travel as slowly as is rendered necessary when torpedoes are used.

Neither of these methods can be considered as offering any really satisfactory protection, and safety for an ordinary war-vessel can only be secured by keeping quite outside the range of action of the submarine.

Special contrivances in war-vessels may do a good deal to neutralize, or at least very much reduce, the danger of submarine attack. French experiments made, in the first instance, with sheep inclosed in a submerged vessel have shown that heavy charges of high explosives could be fired under water at comparatively short distances without any damage to living beings in the enclosure. Special contrivances in war-vessels, in which officers and men have exposed themselves under the same conditions, have shown that a moderately thick layer of water is one of the best of protections against modern attack.

To secure this water layer the modern battleship of the Dreadnought class is built practically in the form of one hull inside another, thus permitting the space between to be readily filled with water. By this device, combined with internal armor, the water below the water-line, and much cellular division into water-tight compartments, it is considered that the best resistance to submarine torpedo attack can be attained. Dreadnoughts are, however, expensive, and in spite of this latest device in reply to the submarine's tactics, the fact remains that the highest experts are at present much exercised at the difficulty experienced in keeping the submarine in the properly humped position of subordination which its comparatively insignificant size appears to demand.

ST. JOHN FUEL CO. can give you cheaper Dry Wood than any other fuel company in St. John. We also keep the celebrated Springfield Coal, especially adapted for cooking stoves, and also both Scotch and American Hard Coal. Prompt delivery from our own tanks. Telephone 181. 5 July 17th.

WILLIAM H. PATERSON, Graduate Doctor of Optics, 55 Bridge Street, St. John, N. B. Telephone 385. We will examine your eyes FREE and only recommend a change if absolutely beneficial. 2-3-1 yr.

E. LAW, Watchmaker, 3 Coburg St. F. C. WESLEY CO., Artists, Engravers and Electrotypers, 59 Water Street, St. John, N. B. Telephone 385.

NEW YORK, Sept. 19.—Miss Droga Seigel, the 29-year-old daughter of Col. Seigel, of the Austrian army, is dying in Bellevue Hospital with three bullets in her body and Julius Hoffman, a former lieutenant in the Austrian army, is under arrest, charged with shooting the girl for whom he left his wife.

Miss Seigel is an heiress to \$100,000 which was to come into her possession within a year. The tragedy was the culmination of a romance in Austria-Hungary army life which began four years ago. Hoffman tried to end his life but was prevented by the girl whom he had already fatally injured. Jealousy prompted the shooting.

Early Wednesday Hoffman went to Miss Seigel's house and going to her room upbraid her for her love for some one else. Hoffman said he pointed a revolver at the girl and going to her half an hour and demanded that she tell the name of the man she loved. The girl insisted that she loved only him. Finally in desperation Hoffman said he shot her. As the young girl fell to the floor the former army officer shot her again. Hoffman said he placed the muzzle of the revolver in his mouth and was about to pull the trigger when the wounded girl struggling to her feet seized his arm. In the struggle the revolver was discharged and the bullet lodged in the girl's head.

Neighbors called the police and the girl was taken to the hospital. Hoffman was arrested. Miss Seigel refused to identify Hoffman as the man who shot her. As Hoffman was being led away she feebly cried that she still loved him. The physicians say that Miss Seigel cannot live. Hoffman has confessed to the police.

TORONTO, Sept. 19.—Peter Shields, one of the wealthiest and most respected farmers of Smiths Falls, was gored to death by a bull today.

TORONTO, Sept. 19.—The case against the Grand Trunk of operating trains on Sunday will be referred to the railway commission to see how much work is justified on that day to avoid undue delay.

CLASSIFIED ADS.

ONE CENT PER WORD per issue is all it costs to insert advertisements like those appearing below in the lively columns of THE SUN or STAR. This ensures them being read in 6,500 St. John homes every evening, and by nearly 8,000 people during the day. SUN and STAR Classified ads are veritable little busybodies. 6 Insertions for the price of 4

BUSINESS CARDS. Advertisements under this heading 1 cent a word each insertion, or 4 cents a word for six consecutive insertions. When answering advertisements under this heading, please mention The Star.

WE ARE PREPARED TO WAREHOUSE all kinds of goods and furniture in our brick warehouses at the foot of Union street. J. S. GIBBON & CO., 55 Main Street, Phone 45-Main.

JOS. WHITELEY, expert Piano and Organ Tuner, 120 Water Street, St. John. Phone 167.

IF YOU WANT male or female help or a better situation in St. John or Boston, try GRANT'S Employment Agency, 60 St. James Street, West Side.

NOW LANDING—Good Hard Wood, \$1.75 a load. Scotch Anthracite, Minutule and Scotch 2 1/2 Soft Coal. JAMES S. McGUIVER, Agent, 3 Mill St.

FIREWOOD—Mud Wagon cut to move loads. For big load in City \$2.25; in North End, \$1.90. Pay the driver. This wood is delivered promptly in the city. GREGORY, LTD., Phone 31.

J. D. McAVITY, dealer in hard and soft coal, delivered promptly in the city. 20 Brunsell Street.

WM. L. WILLIAMS, successor to M. A. Finn, Wholesale and Retail Wine and Spirit Merchant, 119 and 121 Prince Street. Established 1870. Write for family price list.

D. FITZGERALD, 25 Dock Street, Boots, Shoes and Rubbers, repaired. Also a full line of Men's Boots and Shoes at reasonable prices. Rubber Heels attached. 5c.

HAVE YOUR PAPERING, PAINTING AND WHITENING done early. I am booking orders for spring work already. Very moderate prices. F. W. EDLESTON, 23 Sydney Street, Home, 10 Market Square. Telephone 1611.

ST. JOHN FUEL CO. can give you cheaper Dry Wood than any other fuel company in St. John. We also keep the celebrated Springfield Coal, especially adapted for cooking stoves, and also both Scotch and American Hard Coal. Prompt delivery from our own tanks. Telephone 181. 5 July 17th.

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SITUATIONS VACANT--FEMALE. Advertisements under this heading 1 cent a word each insertion, or 4 cents a word for six consecutive insertions. When answering advertisements under this heading, please mention The Star.

WANTED—A nurse girl or general girl. Apply to Mrs. Cranford, 36 Crown Street.

WANTED—A girl for factory work. One girl for shop also one man as cooper. T. Rankine & Sons, Biscuit Manufacturers, 29-31.

WANTED—Paint and overall makers to take work home. Steady work and good pay. Apply D. ASHINGS & CO., 20 Dock St.

WANTED—Experienced cloakmaker and pantmakers. Good pay. Apply AMERICAN CLOAK, 60 Dock Street.

WANTED—Two good fancy ironers. Apply GLOBE LAUNDRY, 31-7.

TO LET—Flat furnished or unfurnished, containing six rooms. Address Box 22, care Star Office. 16-9.

TO LET—From October 1st, warm upper flat, furnished or unfurnished. 25 Prince Street.

TO LET—On Main Street, No. 61. Possession can be taken at once. Apply 65 Main Street.

WANTED—Girls to learn making shirts. Paid while learning. Apply at once. J. SHANE & CO., 71 Germain Street.

TO LET—Possession immediately. Self-contained house cor. Charlotte St. and city line, West St. John, containing 8 rooms and bath, hot and cold water. Apply to S. M. Wetmore, Ferry building, Water Street, city.

TO LET—Shop at 37 Water Street. Apply S. C. Drury, 23 Water Street. 14-9.

TO LET—Nicer furnished rooms, 223 Duke Street. 17-7.

SITUATIONS VACANT MALE. Advertisements under this heading 1 cent a word each insertion, or 4 cents a word for six consecutive insertions. When answering advertisements under this heading, please mention The Star.

WANTED—Experienced waist maker. Apply 6 Peters Street.

WANTED—A nurse girl or general girl. Apply to Mrs. Cranford, 36 Crown Street.

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Fresh Mackerel. SMITH'S FISH MARKET. TELEPHONE 1704. 25 SYDNEY ST.

ARTICLES FOR SALE. Advertisements under this heading 1 cent a word each insertion, or 4 cents a word for six consecutive insertions. When answering advertisements under this heading, please mention The Star.

FOR SALE—White Wyandotte and Barred Rock chickens. Apply THOS. LOVE, Rockwood Poultry Yard, Gilbert's Lane. 20-8-1f.

FOR SALE—One five drawer cash register, cost \$125. Will sell for \$50. Apply 23 Star Office. 11-9-1f.

FOR SALE—Grocery business, good stand. Can be bought right for cash. Apply 23 Star Office. 11-9-1f.

FOR SALE—One Rambler automobile, seating two. For sale cheap as owner is getting larger car. Box 221, Star Office. 20-8-1f.

FOR SALE—English Setter Puppies (Laverack) of the world's best breeding. J. MITCHELL, 20 Clarence St. 20-8-1f.

FOR SALE—Well established and good paying grocery business for sale in a first class locality. Terms cash. Apply to Dealer in Groceries, Box No. 186, care Star Office. 29-7-1f.

FOR SALE—A set of short-handled instruction books, (Isaac Pitman System). Only in use a short time. Will be sold at a bargain. Box 129, Star Office. 20-4-1f.

FOR SALE—At Duval's Umbrella Shop, Self-opening Umbrella, 80c. up; ordinary, 50c. up. L. S. Case. We use no other in our chair-seating. Perfected Seats shaped square, Light, Dark, Umbrella recovering and repairing. 17 Water Street. 6-12-1f.

FOR SALE—About twenty new and second-hand delivery wagons, 2 coaches, and 2 horses, carriages, different styles, ready for use, glass front coach, new trimmings, well painted; a first-class coach very cheap; also three outboard carriages. Best place in the city for painting and greatest facilities for carriage repairing. A. G. EDGECOMBE, 115 and 129 City Road. 19-4-1f.

WANTED—Good strong boy about 12 years of age. Apply to Mr. AMERICAN CLOTHING HOUSE, 11-13 Charlotte Street. 14-9-6.

WANTED—Two young men to learn the carriage business. Apply A. G. EDGECOMBE, City Road. 14-9-6.

WANTED—Boys for skate boys in Queen's Row. Apply to Mr. Mandes, at The Happy Hall Hour. 25-8-1f.

WANTED—A good smart boy, 14 or 15 years old, to carry parcels, etc. F. C. KILLAM, City Market. 21-8-1f.

WANTED—A Machinist. Apply W. F. and J. W. MYERS, Water Street. 14-4-1f.

AUCTIONS. Walter S. Potts Auctioneer.

Sales of all kinds attended. Furniture Sales at Residence a Specialty. Office—Market Street. Phone 129.

MUSICAL INSTRUMENTS.

UPRIGHT Pianos, \$4.00 A MONTH.

A good way of buying a Piano if you do not feel like fully deciding now, is to rent, one for six months and then buy it. You can come here and choose a new Piano assuming no responsibility beyond giving the trifling sum agreed upon—\$4, \$5, or \$6. You can keep it as long as you wish, and should you decide to purchase after a few months, we will allow from the price all the rent paid.

W. H. BELL, 79 Germain St.

A. E. HAMILTON, Contractor and Builder. Jobbing of all descriptions promptly attended to. 182-188 Brussels Street. Phone 163.

REAL ESTATE.

Advertisements under this heading 1 cent a word each insertion, or 4 cents a word for six consecutive insertions. When answering advertisements under this heading, please mention The Star.

TO LET—Two small flats situated at St. David Street. Rent \$7.00 monthly. J. W. MORRISON, 50 Princess St. Ring 1642.

Clifton House ST. JOHN, N. B.

W. ALLAN BLACK, Prop. TOAD ALIVE AND 6000 YEARS OLD. Dug Out of Solid Cement Bed by an Australian Miner.

A miner has sent to the Zoological Gardens, Perth, in Australia, a live toad which he dug out of strata of hard cement while sinking a shaft with explosives. It is believed that the creature has been entombed for centuries.

When released from confinement the toad was quite inanimate. Its eyes, which were transparent, with no pupils, gradually became normal, and it is now in excellent health.

The chamber in which it was confined was perfectly smooth, and there was no room for movement. The toad is now being examined by zoologists. The secretary of the zoological gardens cites an instance of a toad being found in a bed of magnesium limestone twenty-five feet under the earth. The age of the toad was believed to be 6000 years. This creature was presented to the Hartlepool museum.

Our Daily Hint



Try a Star Want Ad.

Prof Corsets. Modelled upon scientific principles a series of curves of grace and elegance is comprised in every pair of D. & A. Corsets. You can buy a "D. & A." at various intermediate prices ranging from \$1.00 to \$5.00. Are Fashionable Models. 1-4-7