

HARBOR DEFENSES.

PLANTING DEADLY EXPLOSIVES TO PROTECT THE COAST.

What a Vast Amount of Labor, Skill, Time and Money is Needed to Complete a Thorough System of Coast Defense—Advantages of the Torpedo.

There is a very widely diffused idea among people who have not made a special study of the subject that torpedoes, and torpedoes alone, can defend any harbor against a hostile attack. The destructive effects of a few torpedo explosions under the most favorable circumstances have caused this branch of warfare to assume an undue importance, an importance wholly unwarranted by the results and created by generalizations from isolated instances, entirely without regard to the natural limitations of the efficiency of any torpedo system, however perfect.

It is the object of this article to endeavor to show the actual capabilities of torpedoes, the results attainable by their use, and the restrictions inevitably attending their indefinite expansion into a complete system of defense.

Great guns must play an important part in all harbor defense, but for the proper and adequate defending of navigable channels bouyant mines, exploded by contact, are the mainstays.

With their use, however, a host of perplexing conditions arise, the twisting and wearing of the cables and moorings, the depression due to the currents, the danger of sympathetic explosions, the leaking of the cases, the obstruction of the channel for friendly navigation—all these have to be overcome as best they may be.

Where a port has several navigable channels, and it is practicable to sacrifice one or more, their closure by means of self acting torpedoes is easy.

Where a channel, however, cannot be entirely abandoned, self acting mines are useless, for in order to be thoroughly reliable they must be as dangerous to a friend as to an enemy. Furthermore, their planting, and much more, their removal upon the cessation of hostilities is to be accomplished only at great risk. The limited applicability of ground mines is well known. Torpedo science furnishes two other types for harbor defense; the bouyant mine and the dirigible torpedo, although the latter properly forms a distinct class.

Great nicety in planting torpedoes cannot be expected, and this fact, coupled with the inevitable shifting of the mines from various causes, leads directly to the conclusion that a great number of mines must be relied upon rather than precision in their manipulation.

Despite the number of mines, a vessel attempting to pass the lines may still fail to strike a mine hard enough to work the circuit closer. To meet this contingency a perfect torpedo system must provide means for firing the mines at will in groups of three or four. It will always be possible to accurately locate a vessel within a dangerous space of this number of mines, and their simultaneous explosion will have the desired effect.

To furnish a passage for the electric current many cables are needed, and to avoid confusion some regular method of planting must be adopted. It is convenient to plant the torpedoes in groups capable of being fired by judgment, these groups constituting the units, which are combined into the larger unit whose limit is generally the number of mines that can be operated through a single seven core cable.

The grand groups thus formed are arranged in lines, the latter radiating in such a manner from the operating casements that the separate units can be easily located by triangulation. The intervals between the lines are filled with skirmish lines—single mines strung on a single conductor cable and exploding by contact only.

Many forms of movable torpedoes for harbor defense have been tried in different countries with varying degrees of success. For accuracy of direction and range of destructive power the Sims-Edison fish torpedo is perhaps unexcelled. Extended trials at Willet's point have satisfactorily demonstrated its ability to carry 200 pounds of dynamite to a distance of two miles at a speed of about twenty miles per hour. The charge is exploded upon contact with the vessel or by the action of the operator on shore.

The dirigibility of the torpedo is perfect. It follows its prey as though endowed with life, swerving to the right or left as necessary, diving under booms or other obstructions, cutting through nets, and never slackening its great speed until the end of its cable is reached. At present a two mile radius is deemed sufficient, although this could be increased if necessary by enlarging the "fish" itself.—Cosmopolitan.

Confederate Camp Flags.

The Confederate stars and bars were in 1863 supplemented by the camp flag. This was in size and shape like the other, except that it was white, with no stripes, and the battle flag in the upper corner next the staff. It was found deficient in actual service in that, displaying so much white, it was sometimes apt to be mistaken for a flag of truce, and on Feb. 24, 1865, it gave place to the last flag of the Confederacy, the outer half being a red vertical bar. Appearing so late in the war, it was not so familiar as the others—in fact, it was comparatively little known.—New Orleans Times-Democrat.

The Largest Ocean Steamers.

The largest passenger steamships in commission are the sister ships City of New York and City of Paris, each having 10,449 tons displacement. The steamship having the largest accommodations for cabin passengers is the Cunarder Etruria, which can carry 550. The longest steamship is the Teutonic, 565 feet.—New York Advertiser.

Row-knots Still in Favor.

The rage for row-knots shows no signs of abating. Easter gifts were devised of them in every form.

Comely and calm he rides
Hard by his own Whitehall;
Only the night wind glides
No crowds, nor rebels, brawl.
Gone, too, his court, and yet,
The stars his couriers set,
Stare in their stations set,
And every wandering star,
Alone he rides, alone,
The fair and fatal king,
Dark night is all his own,
That strange and solemn thing,
Which are more full of fate,
The stars, or those sad eyes?
Which are more still and great,
Those brows, or the dark skies?
—Lionel Johnson.

Symbols of the Thunderbolt.

The different nations of the world, both ancient and modern, have employed various symbols to represent the fires that flash from the thundercloud. The Chaldeans symbolized it with a trident, the learned Babylonians used a human arm for the same purpose. The bas-reliefs of Nimrod and Malthia, the work of later and more refined Assyrian artists, show the trident doubled or transformed into a trident fascicle. This triumph of the classic art secured for the ancient Mesopotamian symbol the advantage over all other representations of the thunderbolt.

The Greeks represented the storm fire with the features of a bird of prey. Later on, when they had begun the use of the Asiatic form of the symbol, they put it in the claws of an eagle and made it the scepter of Zeus. Gaul received the symbol from Italy, but soon altered it to the familiar two headed hammer seen on the Gallo-Roman monuments. The same symbol is seen on amulets found in Germany, Scandinavia and Brittany.—St. Louis Republic.

The Color of the Complexion.

If Mrs. Emily Crawford's deductions are true, beauty and such a hitherto difficult achievement as a complexion are mere matters of determination. Mrs. Crawford says that Frenchwomen used to be brown as a berry; but of late years they are conspicuous for their marble charm. The expression is Mrs. Crawford's. This, she says, is simply the result of their intense desire for beauty in pallor; it is altogether a matter of will power. It is elsewhere admitted that the Parisian has been giving a great deal of consideration to her diet, and has found that poultry and milk are better allies, so far as her skin is concerned than butcher's meat and wine.—San Francisco Argonaut.

Perfumes the Horse Likes.

There are some perfumes that are very grateful to horses, however little credit a horse may commonly receive for possessing delicacy of scent. Horse trainers are aware of the fact and make use of their knowledge in training stubborn and apparently intractable animals. Many trainers have favorite perfumes, the composition of which they keep a secret, and it is the possession of this means of appealing to the horse's aestheticism that enables so many of them to accomplish such wonderful results.—St. Louis Globe-Democrat.

An Electric Bell Call.

One of the patents for electrical contrivances issued from the patent office is for an automatic guest call for use in hotels. It consists of a combination of a clock connected through a series of relays and contacts with an annunciator bell system. A guest wishing a call at a certain time has his bell connected to this time strip on the clock circuit; at the designated hour the bell in his room rings for a certain period, or until he stops it.—New York World.

Barbers Use Little Wax Now.

Says a barber: "A thing that isn't used much these days is grease. This store consumed three pounds of it a day ten years ago, and we don't get away with a solitary pound now. I once calculated that 100,000 New York men carried around 150 pounds of wax in their mustaches. This was at the rate of one ounce of wax to forty mustaches."—New York Herald.

Enemies of the Salmon Fisheries.

Seals and sea lions are a great nuisance to the salmon fishermen. At the mouth of the Columbia river they watch the fish nets and grab the caught salmon by the throats, devouring those parts which they regard especially as tidbits. Bears are very fond of salmon and catch a great many of them in the streams. They eat only the heads.—Washington Star.

Felt Flattered.

England is laughing at the story told in Henry Norman's "Real Japan" of the American minister at Tokio, who thought the Japanese "darned clever" people because they greeted him with cries of "Ohayo." "How did they know that I was from Ohio?" he asked.

"The tenement house," said a speaker at a recent public meeting, "is the enemy of philanthropy of the present day."

He meant that whatever is done to ameliorate the condition of the masses of the poor in the great cities is, to a great extent, neutralized by the conditions under which they live.

The value of the product of the factories and mills west of the Mississippi during the year 1891 is computed at \$423,068,695, and the product of the states west of the Missouri alone is computed at \$198,722,653.

In territorial area the United States ranks third. Great Britain covers 8,557,000 square miles of territory, Russia, 8,352,940 miles, and the United States, counting Alaska, 3,580,342 miles.

It is said that in all the forests of the earth there are no two leaves exactly the same. It is also said that amid all peoples of the earth there are no two faces precisely alike.

Watch a man reading his own contribution to a magazine, and you will get a picture of absolute concentration.

To those seeking a rescue from liquor's curse or other evil habits brought about by morphine, tobacco, etc. The Emsor Institute at South Omaha offers one of the most reliable and best places to go with the absolute certainty of a permanent cure. Write or visit the institute.

A Sensible Man.
Would use Kemp's balsam for the throat and lungs, it is curing more cases coughs, colds, asthma, bronchitis, croup and all throat and lung troubles, than any other remedy. The proprietor has authorized any druggist to give you a sample bottle free to convince you of the merit of this great remedy. Large bottles 50c and \$1.

I feel it my duty to say a few words in regard to Ely's Cream Balm, and I do so entirely without solicitation. I have used it more or less half a year, and have found it to be most admirable. I have suffered from catarrh of the worst kind ever since I was a little boy and I never hoped for cure, but Cream Balm seems to do even that. Many of my acquaintances have used it with excellent results.—Oscar Ostum, 45 Warren Ave., Chicago Ill.

Wanted:—An energetic man to manage branch office. Only a few dollars needed. Salary to start \$75 per month and interest in business. The Western Co., Kansas City, Mo.

Some Foolish People allow a cough to run until it gets beyond the reach of medicine. They say "Oh, it will wear away," but in most cases it wears them away. Could they be induced to try the successful Kemp's Balsam, which is sold on a positive guarantee to cure, they would see the excellent effect after taking the first dose. Price 50c and \$1. Trial size free. At all druggists.

The wisdom of him who journeyeth is known by the line he selects; the judgment of the man who takes the "Burlington Route" to the cities of the east, the south, and the west, is never impeached. The inference is plain. Magnificent Pullman sleepers, elegant reclining chair cars and world-famous dining cars on all through trains. For information address the agent of the company at this place, or write to J. Francis, General Passenger and Ticket Agent, Omaha.

Now Try This.

It will cost you nothing and will surely do you good, if you have a Cough, Cold or any trouble with Throat, Chest or Lungs. Dr. King's New Discovery for Consumption, Coughs and Colds is guaranteed to give relief, or money will be paid back. Sufferers from La Grippe found it just the thing and under its use had a speedy and perfect recovery. Try a sample bottle at our expense and learn for yourself just how good a thing it is. Trial bottle free at F. G. Fricke & Co. Drug Store. Large size 50c. and \$1.00.

The population of Plattsmouth is about 10,000, and we would say at least one-half are troubled with some affection on the throat and lungs, as those complaints are, according to statistics, more numerous than others. We would advise all our readers not to neglect the opportunity to call on their druggist and get a bottle of Kemp's Balsam for the throat and lungs. Trial size free. Large bottle 50c. and \$1. Sold by all druggists.

Itch on human and horses animals cured in 30 minutes by Woolford's sanitary lotion. This never fails. Sold F. G. Fricke & Co. druggist, Plattsmouth.

For years the editor of the Burlington Junction, (Mo.) Post, has been subject to cramp colic fits of indigestion, which prostrated him for several hours and unfitted him for business for two or three days. For the past year he has been using Chamberlain's Colic, Cholera and Diarrhoea Remedy whenever occasion required, and it has invariably given him prompt relief. 25 and 50 cent bottles for sale by F. G. Fricke & Co., druggists.

According to the census of 1890, Chicago takes rank, by virtue of her population of 1,098,576 people, as the eighth largest city on the globe. Most of us desire, at one time or another, to visit a city in which so many persons find homes, and, when we do, we can find no better line than the "Burlington Route." Three fast and comfortable trains daily. For further information address the agent of the company at this place, or write to J. Francis, General Passenger and Ticket Agent, Omaha, Nebraska.

The Missouri Pacific will sell round trip tickets May 9 to 14 inclusive, to Portland, Oregon, the Presbyterian general assembly being held there May 19 to June 2. Tickets good until May 19 and returning inside 90 days at \$60, going via one route and returning via another. Apply at ticket office for particulars.

Specimen Cases.

S. H. Clifford, New Castle, Wis was troubled with neuralgia and rheumatism, his stomach was disordered, his liver was affected to an alarming degree, appetite fell away and he was terribly reduced in flesh and strength. Three bottles of Electric Bitters cured him.

Edward Shepherd, Harrisburg, Ill, had a running sore on his leg of eight years' standing. Used three bottles of Electric Bitters and seven bottles Bucklen's Arnica Salve, and his leg is sound and well. John Speaker, Catawba, O., had five large fever sores on his leg, doctors said he was incurable. One bottle Electric Bitters and one box Bucklen's Arnica Salve cured him entirely. Sold by F. G. Fricke & Co.

PLACES OF WORSHIP.

CATHOLIC.—St. Paul's Church, at between Fifth and Sixth. Father Canney, Pastor. Services: Mass at 8 and 10:30 A. M. Sunday School at 2:30, with benediction.

CHRISTIAN.—Corner Locust and Eighth Sts. Services morning and evening. Elder A. Galway, pastor. Sunday School 10 A. M.

EPISCOPAL.—St. Luke's Church, corner Third and Vine. Rev. H. B. Butler, pastor. Services: 11 A. M. and 7:30 P. M. Sunday School at 2:30 P. M.

GERMAN METHODIST.—Corner Sixth St. and Granite. Rev. H. H. Butler, pastor. Services: 11 A. M. and 7:30 P. M. Sunday School 10:30 A. M.

PRESBYTERIAN.—Services in new church, corner Sixth and Granite sts. Rev. J. T. Baird, pastor. Sunday school at 9:30; Preaching at 11 A. M. and 8 P. M. The Y. R. S. C. E. of this church meets every Sabbath evening at 7:15 in the basement of the church. All are invited to attend these meetings.

FIRST METHODIST.—Sixth St., between Main and Pearl. Rev. J. F. Butler, D. D., pastor. Services: 11 A. M. and 8 P. M. Sunday School 9:30 A. M. Prayer meeting Wednesday evening.

GERMAN PRESBYTERIAN.—Corner Main and Ninth. Rev. H. B. Butler, pastor. Services usual hours. Sunday school 9:30 A. M.

SWEDESH CONGREGATIONAL.—Granite, between Fifth and Sixth.

COLORADO BAPTIST.—Mt. Olive, Oak, between Tenth and Eleventh. Rev. A. Foswell, pastor. Services: 11 A. M. and 7:30 P. M. Prayer meeting Wednesday evening.

YOUNG MEN'S CHRISTIAN ASSOCIATION.—Rooms in V. A. B. block, Main street. Gospel meeting, for men only, every Sunday afternoon at 4 o'clock. Rooms open week days from 8:30 A. M. to 9:30 P. M.

SOUTH PARK TABERNACLE.—Rev. J. M. Wood, pastor. Services: Sunday School, 10 A. M.; Preaching, 11 A. M. and 8 P. M.; Prayer meeting Tuesday night; Choir practice Friday night. All are welcome.

The First Step.

Perhaps you are run down, can't eat, can't sleep, can't think, can't do anything to your satisfaction, and you wonder what ails you. You should heed the warning, you are taking the first step into nervous prostration. You need a nerve tonic and in Electric Bitters you will find the exact remedy for restoring your nervous system to its normal, healthy condition. Surprising results follow the use of this great Nerve Tonic and Alternative. Your appetite returns, good digestion is restored, and the liver and kidneys resume healthy action. Try a bottle. Price 50c, at F. G. Fricke & Co's drugstore.

A Little Girl's Experience in a Light House.

Mr. and Mrs. Loren Trescott are keepers of the Gov. Lighthouse at Sand Beach Mich, and are blessed with a daughter, four years. Last April she taken down with Measles, followed with dreadful Cough and turned into a fever. Doctors at home and at Detroit treated, but in vain, she grew worse rapidly, until she was a mere "handful of bones".—Then she tried Dr. King's New Discovery and after the use of two and a half bottles, was completely cured. They say Dr. King's New Discovery is worth its weight in gold, yet you may get a trial, bottle free at F. G. Fricke & Co's drugstore.

How's This! We offer 100 dollars reward for any case of catarrh that can not be cured by Hall's Catarrh Cure. F. J. Cheney & Co. Props, Toledo, Ohio.

We the undersigned, have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out all obligations made by their firm.

West & Truax, Wholesale Druggist, Toledo Ohio., Walding Kinnan & Tarvin, Wholesale druggist Toledo Ohio.

Hall's Catarrh Cure is taken internally, action directly upon the blood and mucous surfaces of the system. Price, 50c per bottle. Sold by all Druggists; Testimonials free. □

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No medicine chest is complete without a bottle of MUSTANG LINIMENT.
Occasions arise for its use almost every day. All druggists and dealers have it.