CIGHTING UNDER WATER.

Every Naval Power Possesses or Is Building a Submarine Navy.

ling announcement is made that the twentieth century will witness all na-Val conflicts fought under water.

The naval powers of the world are at

the present moment building up submarine navies. England. France. Germany, Russia, Italy and Japan already possess deadly submarine craft and several other nations are pushing their Soon each nation will possess a small flotilla to wage war un-

the United States far above the ma-jority of naval powers in the matter of submarine warfare.

of the new torpedo boat Rogers. In his former position as assistant chief of the bureau of naval intelligence, he learning to be gained by so doing.

Russia has made open announcement of the bureau of naval intelligence, he learning to be gained by so doing.

or plunges beneath, are found. Therefore it will be no surprise to learn that Britain has two of the submarine de-stroyers. They are the Vixen and the Mermaid. Both are about the length of the ordinary torpedo boat and the fish model is also followed. Aside from these principles the English craft have ways of their own, which it is claimed pecial Correspondence of the Globe.

WASHINGTON, Sept. 9.—The starting announcement is made that the wentieth century will witness all nall conflicts fought under water.

Trine boat people enough rope to either hang themselves with or make a ladder." and this ladder may serve to lift the United States far above the majority of naval powers in the matter of submiring warfare. jority of naval powers in the subject of submarine navigation is Lieutenant Commander W. W. Kimball, who was recently detached from his position at and given command.

Crate of submarine except the builders and able. No one except the builders and the officers who are superintending the craft, is familiar with the details. One of the features of the shrewd policy of England is not to take the world into her confidence unless there is some-

IEW DANGER FOR WAR SHIPS. **※祭於张安縣本於來食於故事谁ష來敬奉來來來來來來來來來** 2

High Angle Firing Renders the Most Strongly Armored Vessels Helpless Against Attacks.

utilized in so great a degree, for the power of the greatest vessel to with stand the recoil of a gun in surprisingly limited. It is a very small percentage of the recoil which can be safely figur-

of the recoil which can be safely figured upon by those who can man the guns in fortifications.

Therefore it can be seen that the great advantage of high angle fire from guns on shore is that they can be mounted behind earthworks or parapets entirely concealed from view, so that it would be a matter of great difficulty to silence them. Again, their fire has a plunging character, and is

fire has a plunging character, and is thus effective against objects them-selves invisible. The great effect made possible by the use of guns of this class has caused a centralization of attention

from military men upon them, all of whom say without hesitation that the practice of high angle firing has unquestionably a great future.

The main idea of the high angle firing is to furnish a mode of attack against ships so heavily armored as to be almost proof against attillery.

versed with certain charges of powder used to give the necessary impetus. Now with these calculations possible, and the points of the compass carefully

calculated, it is not at all among the impossibilities to place a shot with fair

This knowledge given the rest is comparatively easy. The officers in charge of the gun would, of course.

have an accurate chartered map of the waters which it commanded. They would be able, from occasional ob-servations of lookouts, to gain an ac-

curate idea of the course the vessel at which they were firing was taking

and the chances are that they could rain projectiles upon her in a man-ner which would cause her to speedily

though they might be.
I am informed that the United States government has instructed its

states government has instructed its naval representative here to look into the matter and see if all is as represented. This inquiry, I am sure, is being carried on for I have myself seen the attache at Woolwich and in the vicinity of the place of high angle firing experiments within a week. The Exitic experiment is reaking no ef-

British government is making no ef-fort to hide its light under a bushel, so far as this experiment is concerned, at least, and I fancy the whole world is at liberty to follow its example if it likes.

One thing the new discovery seems

to put an end to and that is the idea that great fleets can threaten the sea-

port towns of a powerful nation with any degree of success. The chances are that, before two years have passed, some effort will have been made by every nation which will fight for what it considers its rights to equip at least one of its main searouts with high angle firing guns.

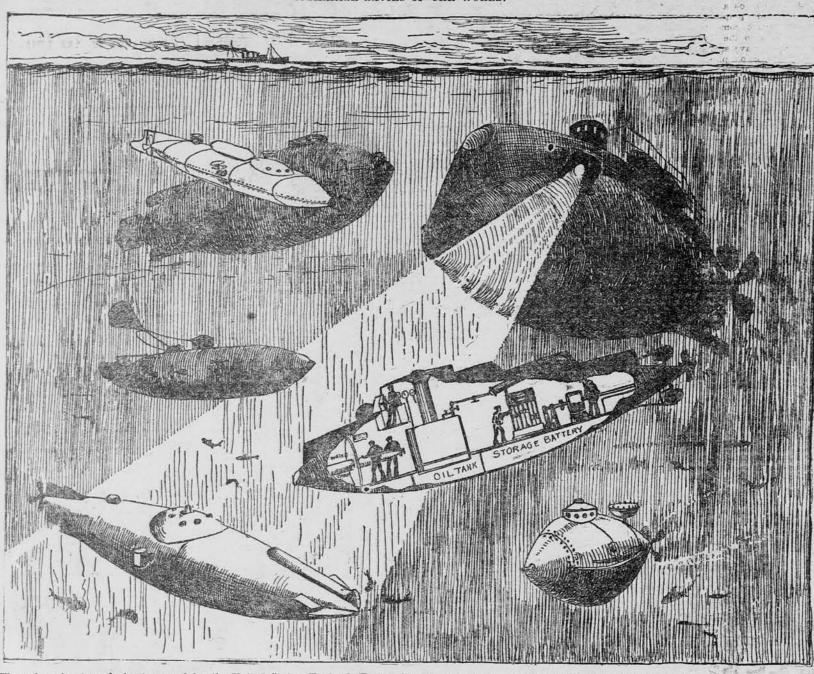
LONDON, Sept. 4.- Experiments just concluded at Woolwich have demonstrated that by a new method of artillery attack the strongest battle ship

cial Correspondence of the Globe

which was ever built may be rendered absolutely helpless within a very few moments. This may be done without the slightest danger to the men who man the great guns which perform this task. The new method is known as high angle firing.

The one experiment which demonstrated the fact cifed beyond question

SUBMARINE NAVIES OF THE WORLD.



The submarine torpedo boats owned by the United States, England, France, Russia and Japan. Naval authorities declare the battles of the future will all be fought beneath the wave

ful developments within the past three decades that they hesitate to draw the line somewhere.

Since his accession to office, Assistant Secretary Roosevelt has taken the torpedo boat flotilla under his especial guardianship, and it is known that he is greatly interested in the development of submarine boats, whose principal weapons will, of course, be torpe-does. Mr. Roosevelt has always been credited, even by his severest critics, with being an intensely practical man. While he would not consen to be quot-ed in any expression of opinion upon the future of the submarine boat, he declared it the purpose of the department to encourage and aid in every way the work now in progress. The constructors of the Holland submarine tonscriptors of the Holland submarine
beat have been allowed unusual latitude by the department. Instead of
rigidly superintending every detail of
conscruction, the department simply
made out a list of its requirements and
holds the builders responsible for reents, which may be recorded in the

der the seas, while above not a ripple disturbs the surface. These astonishing statements would appear impossible were it not for the fact that the submarine navies actually exist at the present moment.

While about the navy department there is a slight reluctance to make any general predictions as to the part the submarine boat is to play in the submarine boat is to play in the respect, at least, of the recent experiments in this line, and while some profess to doubt if the time is yet ripe for a revolution in the art of naval warfare, they have seen so many wonderful developments within the past three

ture of genuine consternation among the naval powers of Europe than any-thing of the sort that has come into existence. Then there is the Plunger, which was completed at Bultimore not so long ago. She will, her inventor promises, perform wonders when she is given a chance to show what she can really do. Theory is not the best basis in the world on which to deter-mine the usefulness of a craft, but that constructors of the Holland submarine base have been allowed unusual latitude by the department. Instead of rigidly superintending every detail of construction, the department simply made out a list of its requirements and holds the builders responsible for results, which may be secured in their own way and time.

In the words of one of the officials of the bureau of construction:

"We are going to give the subma."

ish flag representatives of almost "We are going be give the subma- every craft that floats on the surface

WEEK BEGINNING

TONIGHT.

er manned by only definition of the manned by only definition of the submarine torpedo boat Holland, the United States possesses, it is probable, the most dangerous craft of the sort in existence. What she really the sort in existence what she really lieves she could not only cope with. probable, the most dangerous craft of the sort in existence. What she really can accomplish in the way of damage only actual warfare will demonstrate. Sufficient is known, however, to make the statement worthy of consideration the statement worth worth the statement wor ceased planning in reality any new naval vessels, this action being based on the belief that if any other vessels are constructed they should be sub-marine destroyers. France's submarine marine destroyers. France's submarine boats are said to be more suitable for human beings to exist in than the ordinary craft of that nature. The projectile which their guns will throw, is also believed to be of greater explosive power and therefore more dangerous.

For several years the German emperor has paid remarkably close attention to naval matters. It is familiar to all those who follow German affairs that the emperor's request for a heavy naval appropriation came very near causing a serious breach between him and the reichstag. It has been learned that one of the principal reasons for wishing this appropriation was the emperor's desire to equip the nation, as it were, with a fleet of submarine boats. He was, it will thus be seen, sufficiently far-sighted to discern months ago the fact that has now only fairly dawned upon the great powers of the world, that it is more than likely future naval battles will be fought under water. As it is Germany has but one submarine boat, and beyond this fact little is known, except that she is not of the fish-like construction which distinguishes the others, but is really shaped more on the order of that famous imaginary craft, Capt. Nemo's Nautilus. She has no ram, but is said to make up in her ability to handle explosives what she lacks in this respect.

A story has just been published which tells boats are said to be more suitable for

no fam, but is said to make up in her ability to handle explosives what she lacks in this respect.

A story has just been published which tells us that the Japanese navy is to be vastly improved, and hints at facts concerning this with which the public is not familiar. To a certain extent this is true, for never before has it been made known that even little Japan has a torpedo boat. Not only has she one which is complete, but still another submarine vessel of war is building. Ever since Japan proved her fighting powers on the seas during her conflict with China, she has been seeking to improve her navy. So familiar have the visits of investigating parties of Japanese officials become that they have almost ceased to attract notice. These visits have been bearing fruit, however, and the submarine war vessel is one of the varieties of fruit which Japanese enterprise has caused to grow. This boat was constructed under the supervision of its American inventor, who declares that while in principle it resembles others, in matters of important detail it differs widely and in ways that will give it great superiority in time of conflict. The boat that is now being constructed will, it is said, be superior to the one already built in several respects.

The facts quoted show plainly enough that the submarine war vessel has risen far beyond experiment. Whether or not future naval battles are fought under water altogether, the submarine boat is sure to be an important factor.

portant factor. Cheap Excursion to New Ulm.

Round trip tickets only \$1.50 over the Minneapolis & St. Louis R. R., 12 miles shorter than any other route. Quick

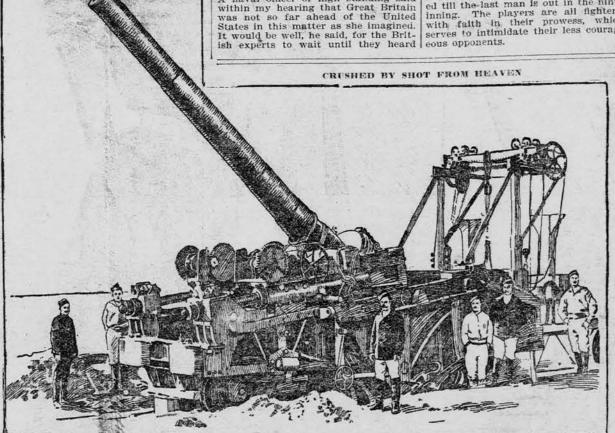
service.

For information regarding regular and special trains, call at M. & St. L. Ticket Office, Robert and Sixth streets (Ryan Hotel block).

A Four Days' Outing.

A special round trip rate of \$5 vla Northern Pacific and Brainerd & Northern Minnesota railways for the opening of the new Pameda hotel at Walker, Minn., on Leech lake. Tickets sold only on Sept. 17. Good to return until Sept. 20. A glorious chance in a newly opened region. Call on N. P. agents, 162 East Third street, St. Paul, 19 Nicollet House Block, Minne-

ports with high angle firing guns.
This done, the most powerful navy in
the world may lie helpless before a
seaport of one of the weakest of nawas conducted with a wire wound piece of service ordnance of 9.2 inches caliwashington, sept. 10—Inquiry at the war department here develops the fact that the result of the English experiments with the high angle firing guns has been known for some days. A naval officer of high standing said within any heaving that Great Britain.



The new high-angle gan which hurls projectiles three miles skyward to fall with fearful destructive results on warships and fortifications.

ber, weighing nineteen tons, and which was on an expanding mounting placed for high angle firing. The gun utilized was one of great power, range and penetration. In the series of trials of the gun the projectiles fired were Palliser shot, weighing 382 pounds each and requiring for discharge an individual charge of 270 pounds of powder. The gun was fired at various angles of elevation, the maximum range obtained not being less than twelve miles. The elevation was then 40 degrees.

Those who had charge of the experiments carefully calculated the speed of the projectile and determined that the extreme height obtained by it was in the vicinity of 16,000 feet, or about three miles. The time occupied by the entire flight was exactly one minute. This result is regarded as one of the greatest achievements of modern gunnery. The power of great range and exceeding penetration which the projectile undoubtedly possesses under the circumstances described are unques-tionably due to the wire-winding system, which gives high resistance powers to the guns, and thus enables heavier charges to be used. The gun which will in general be used upon the coast of Britain weighs twenty-seven tons and has a muzzle energy of 19,200 foot

It is doubtful if any experiment with artillery for thirty years has resulted in the revelation of facts so important

to naval powers. 6 36 1 1 needs no elaborate explanation to demonstrate that no vessel can be so constructed on modern lines as to be impervious to projectifes dropped from the clouds as well as those which are fired at her sides. Yet that is exactly the position the modern battleship is placed in by the adaption of high angle

from Fort Hancock (Sandy Hook) be-fore they said too much. It is a wellknown fact that the greatest secrecy has been maintained as regards the work going on at the Sandy Hook for-tifications. It has been known that experiments of the greatest impor-tance were in progress. It may be that the high angle range fire gun has much to do with them.

MIDLAND WRECK

To Be Thoroughly Investigated by the Coroner.

GLENWOOD SPRINGS, Col., Sept. 11.-Coroner Clark intends to make a thorough investigation of the railroad thorough investigation of the railroad accident yesterday morning on the junction road near Newcastle, Col., and fix the responsibility for the terrible loss of life resulting therefrom. The jury will begin to take testimony as soon as the attendance of the survivors of the crews of the trains that collided can be secured. Engineer Ostrander, of the Midland stock train, has not yet been found, dead or alive. F. E. Burbank, conductor of the Midland train, who is under arrest, declares that his orders gave him sufficient time to reach Newcastle ahead of the Rio Grande passenger train. The officials of both the Denver & Rio Grande and the Midland roads are Grande and the Midland roads are making a thorough investigation of the cause of the accident. They claim that only thirteen persons were killed, and seventeen injured, but the fire that broke out in the wreck reduced some of the corpses to heaps of ashes, and makes it difficult, if not impossible, to determine exactly how many lives were lost. The remains of a number of bodies, variously estimated from six to ten, lie in a space less than would ordinarily be taken by one corpse and must be buried without identification.

firing. Of course, in parely naval bat-tles the high angle system cannot be sota, No. and So. Dakota cities and towns.

DIAMOND MYSTERIES more violent and unreasonable in his "kicking." The "old man" always was

HOW STRANGE LUCK FOLLOWS THE CINCINNATI BASE BALL CLUB.

MEN WHO DO BEST AT HOME.

NEW YORK AND BALTIMORE TEAM ARE BOTH STRONG FIN-ISHERS.

OLD MAN ANSON AS A KICKER.

Does Salt Air Affect Western Teams -Good Showing of Minor Leagues.

Special Correspondence of the Globe. NEW YORK, Sept. 10 .- There is against ships so heavily armored as to be almost proof against artillery used in the ordinary fashion. At first it might be thought that a bombardment by high angle guns mounted so deeply in the earth that it would be well nigh impossible to direct their aim at all, would be in the nature of shooting at random. As a matter of fact, it would be anything but that. It is now possible to tell the speed at which a projectile travels and to calculate from this speed the distance traversed with certain charges of powder plenty of room for the students of base ball form and mystery to spend a few hours over the recent record of the Cincinnati team. It came East on its second and last trip and almost duplicated its disastrous record made on the final trip East last year. Then it left home well intrenched in second sive times. This losing form was kept up, with less regularity, however, till the end of the season, whereby the Clevelands profited, coming from the rear and displacing them from the hoped-for Temple cup series.

This year they left home a good third with connant hopes, and had not been on the Eastern circuit two weeks when they were hopelessly floundering in fourth place, all brought by another remarkable string of straight defeats. The situation is the more extraordinary on account of the fact that the team was supposed to have been ner which would cause her to speedify retire from range, if she were not so disabled as to be unable to do so. That is what the naval ordnance experts, who have watched the experiments, say, and the oldest and most conservative officers of the English navy join them in the opinion. So it can be seen that a series of high angle firing gun batteries could make any roadstead a very uncomfortable place for war vessels, heavily armored though they might be. greatly strengthened since last season. The club secured the services of Breitenstein at a big outlay of cash, and also of that superb shortstop and player, Corcoran, but this did not avail to prevent the second autumnal disas-

Looking for the cause of it, one finds that the Cincinnatis are home winners On their own ground, supported by the most ardent kind of rooters and by a very partisan press, they play a strong game and are hard to beat, but in the team are a few weakeners who lose their nerve as soon as they face a visit on the road among strangers. crisis on the road among strangers. Those of the nine who have the courage are balked by their weak-hearted comrades, some of whom belong to the comrades, some of wheth event his hardly accounts for the repetition of last fall's successive defeats. It really seems to be a fatality. In one game at the Polo grounds, after six straight knockdowns, the New York club won the last inning after two bats.

at the Polo grounds, after six straight knockdowns, the New York club won out in the last inning after two batsmen had been retired by the third dropping a lucky pop fly between fields. In the third game at the same place, with two out, two runs needed to win, two men on bases and the final batsman having two strikes recorded against him, the very last chance or swing of the bat resulted in a base hit and the ninth successive defeat of the unfortunate Westerners. Surely such incidents suggest a curse of illuck in its most aggravating form.

In strong contrast is the annual fall work of the Baltimore and New York teams. They have earned the reputation of being strong finishers. Both have established their claim to the title by their playing in August and September of 1894-5-6. This year they are again carrying everything before them in the wind up. Neither is ever defeated till the last man is out in the ninth inning. The players are all fighters, with faith in their prowess, which serves to intimidate their less courageous opponents.

As Anson grows older he becomes

diplomacy and moderation and goes at an umpire in true hoodlum style. As a consequence Anse has been removed from the game oftener this year than in all his career before. He is fighting with desperation to land at the bottom of the first division or in sixth place. It is the best he can hope for, and his soul is fixed on realizing it. There was a time when he fought in like manner to land his club first or second, but the mighty have fallen, and smaller ends are now his object.

The Western teams got decidedly the small end of general results on their final Eastern trip. It probably proves that the Eastern clubs maintain their superiority in strength over their Western brethren. The latter have been ern brethren. The latter have been coming up year by year on more even terms, but have not yet succeeded in getting on an equality with the Atlan-tic coast section. When Western race horses first come East, their work invariably retrogrades until they get used to sait air. Perhaps these West-ern ball players are similarly affected. Climate has much to do with man's physical change of condition,

famous as an objector and a badgerer of umpires, but in his younger days he

went about it with some discretion at least. Now he pushes aside good sense, diplomacy and moderation and goes at

Advertised sensations usually fail to occur. There was much newspaper talk about retaliation and paying off old debts by the New York club when the Cincinnatis should visit the Pologrounds this month. A violent personal feud between the owners of the two clubs had invaded the ranks of the re-spective teams to some extent. When place and near the leaders, but the team went to pieces as soon as it struck Boston and lost eleven successive times. This losing form was kept manlike ill treatment they received from the Red Stocking managemens. The news of it came to New York and was affirmed by the Giants on their return with all manner of threats of "getting even" when the Westerners came East to fill their final engagement. It was generally believed that Manager Ewing and his men would find trouble and a lack of courteous amenities awaiting him. A tremendous arrowed turned out to see the first game The news of it came to New York and crowd turned out to see the first game of the series. The Cincinnatis came on the field with many misgivings, but were not long in being pleasantly un-deceived. The spectators met them with courteous greeting. The New York management took especial pains to look after their comfort and to acto look after their comfort and to acgrounds. Their good plays were generously applauded, and no attempt at "dirty" ball playing was made. The result was decidedly wholesome. Every patron in that big crowd went home patron in that big crowd went home pleased to know that the spirit of retaliation as threatened had been abandoned and the policy of returning good for evil had been substituted. The effect was also seen among the players. They fraternized between innings and showed by their actions that a great deal of the old bitterness had been wiped out so far as they were con-

erned. The success of the minor leagues and associations this year will very probassociations this year will very probably make such organizations as the Western, Eastern, Atlantic, New England and Interstate leagues almost as permanent as the National league. The wave of prosperity has surely struck them if it has not yet overwhelmed some other lines of business. All will finish with unbroken circuits and considerable cash on the right side of their A strong effort is being made to send

the pennant winners of the National league and a picked nine of the best players from the other teams on a post players from the other teams on a post season or winter tour of the South, Southwest and California. The backing is alleged to be ready, but the difficulty in the way of the venture is to find players willing to make the trip. Most of those chosen have respectfully declined. They are among the veterans who have lively recollections of similar expeditions which ended in a stranding

-O. P. Caylor.

TOLEDO NEXT TIME.

National Letter Carriers Will Med

NCISCO Sept. 11 .tional Association of Letter Carriers took action upon the question of equalization of carriers' salaries, a bill being drawn up for consideration for the purpose of raising the salaries of carriers in first class cities from \$1,000 to \$1,200. The resolution in favor of equalization was voted down by 276 to 251. The question of location of the next convention was then taken up. Toledo, Ohio; St. Louis, Omaha and Scranton, Pa., were the only competitors. After a short, but hot fight, Toledo was victorious and the next convention will be held there. On the same ballot it was decided that there should be a reserve fund for the mutual benefit asso-

clation.

The following officers were elected: The following officers were elected: President, John Parsons, New York; vice president, Conrad Triebock, San Francisco; secretary, John T. Victory, Washington; treasurer, M. J. Connors, Chicago; executive board. S. F. Stevens, Cincinnati; F. J. Rourke, Syracuse; Chris Loughead, Detroit; B. J. Curtin, Linn; F. McElroy, Bridgeport; chairman legislative committee, James Arkinson, Fall Kiver; members of the same committee, W. J. Morrison, Prooklyn; F. S. Tratton, Cleveland; committee on civil service, C. E. Raedel, Canton, O.; J. A. Barnes, Malden; J. J. Scully, Pittsburg; trustee, C. M. O'Brien, Cleveland; chief collector, Wilmot Dunn, Nashville, The cash in the treasury is now \$4,763. It was decided to ask for increased compensation for mounted collectors. Nothing was done towards separating the office of secretary and editor of the Pestel Percond. of secretary and editor of the Pestal Record.

Have you seen the new Gordon Hat for women? There is nothing so be-coming to women as the latest thing in hats. The Gordon.

METROPOLITAN OPERA HOUSE

L. N. SCOTT, : : : MANAGER. GREATEST FARCE COMEDY OF THE AGE

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"THERE ARE OTHERS, BUT NONE LIKE THIS." 656 nights consecutively at Hoyt's Theater, N. Y. Played all last season in Australia to enormous business, making the longest tour on record, conquering two continents. Presented by the New York Company, headed by

K LANE WELLAND STRONG. PRICES: EVENINGS, 25c, 50c, 75c and \$1,00. MATINEES, 25c and 50c.

Sunday, Sept. 18-MISS FRANCIS OF YALE.

HOOSIER By Augustus Thomas, Author

of "Alabama," "In Mizzoura,"

Success a Veritable Triumph."

-Chicago Post. CAST OF

WEDNESDAY—MATINEES—SATURDAY.

23 ARTISTS 23. "As Dr. Willow, Mr. Bell has indeed furnished a masterpiece to the restricted collection of undeniably great interpretations. The comparison to Jefferson and Goodwin is fair and unexaggerated."--Milwankee Journal.

"Laura Joyce Bell's performance is absolutely perfect. The entir company is excellent."-Chicago Inter Ocean. WHAT MORE CAN BE SAID?

Next Week - - "TENNESSEE'S PARDNER."