NEW YORK IS SAFE.

COULD NOT BE BOMBARDED BY ANY FLEET.

Natural Advantages of Defense Augmented by Fortifications, Submarine Mines and Torpedoes.

The voice of the alarmist is heard in the land. He would have you believe that in case of war New York City would be defenseless, would be practically at the mercy of the enemy. He has pictured to you gory scenes of destruction, of big buildings toppling over, of women and children fleeing for their lives. But, as usual, the alarmist is altogether wrong. New York is perfectly safe from bombardment. Our defenses are almost invulnerable, and if you read the accompanying article you must be convinced that such is the case.

No projectile whizzing high in air and speeding surer than hostile shot ever yet was sent can reach the Battery from the sea.

The sky line of Manhattan, once so easy in lift and sweep and curve and now so marred, need fear no tumbling of its pinnacles and spires.

For New York is beyond the radius of possible destructive effect, and no floating gun platform has yet been built which may give us a moment's uneasiness.

As the crow flies it is a good twelve miles from any point where, seaward, a battleship might lie in safety and shell the town. It is true that projectiles abroad have flown twelve miles, and at home we hope to secure in our new 16-inch army gun a range above fourteen miles.

FLIGHT OF A PROJECTILE.

But these are land guns, mounted in emplacement or so unyielding that any elevation may be given them without fear of destruction to their platforms. To attain a range above ten miles such an elevation must be made at the muzzle of a gun that the projectile in its line of flight, its trajectory, will follow a great parabolic curve. At its maximum hight—that is, just before it begins to fall toward the earth—the shot is over fifteen thousand feet in a vertical direction above and probably seven miles beyond the mouth of the gun it left. Think of that! Higher in the air than the summit of Mont Blanc, further on its journey than the distance from Castle Garden to the Harlem River in a straight line, and all this in such a brief time—for assuming the velocity of the shot at 1,800 feet a second, or a mile in three seconds, ten miles would be covered in a little over half a minute, allowing for a vertical lift as well as horizontal translation.

Not so, however, with the greatest artillery yet mounted in battleships. The elevation which may be given the muzzles of their guns—and on this in the present stage of the ordnance problem the range, the trajectory, depends—is necessarily under twenty degrees. Were it greater the shock given to the beams and angles and deck supports of the ship could not be withstood, and the fabric would be wrecked. The line of recoil along which the energy would travel may be followed in the mind's eye, and it will be seen as the muzzle goes up and the breech goes down how more and more destructively the enormous energy of the piece would be directed inboard and vertically downward.

SEVEN MILES THE LIMIT AND RANGE.

Hence the range is limited by necessities of construction, and we may safely assume that under the most favorable circumstances the projectile could not attain a greater distance than seven miles.

With flatter trajectories—that is, with lines of flight more nearly level—higher powder energies and extended resisting powers of gun tubes and mounts, greater ranges may be secured. What is more, the zone of safety will be decreased, for it may readily be seen that a low flying shot can exert greater destruction in its path than a high flying one, which, to reach a point, must be lifted for greater distances so far in the air as to leave untouched all intervening obstacles. This is what has been sought and gained in the small caliber rifle muskets now in use in all countries, for they send their bullets so straight, so point blank almost from the muzzle, that the ground in front of their attack practically has no point where the man of average hight can stand without danger.

No; New York, save for the cowsheds of Gowanus and the villas clustering on the ridge from Fort Hamilton to Red Hook, is safe from attack seaward.

GUARDED AT ALL POINTS.

The approach from Long Island Sound is equally well guarded, both by submerged mines and by the fortifications at Willet's Point and Fort Schuyler. The sound between these two works is narrow enough to command the approach to the city from this direction.

The entrance from the lower bay is usually looked upon as the gateway of destruction. A brief survey of the ground will show how fallacious are the theories of our friend the alarmist.

Long Island protects the city from the sea, and obliges any naval attack to depend upon one or the other of two approaches, both of them exceedingly intricate. During the War of the Revolution, Lord Howe moved his fleet down to the Lower Bay and took a position about middle ground between Sandy Hook and Coney Island, to prevent the entrance of the French fleet, under Comte d'Estaing. So to-day we must look to the outer harbor for the establishment of our main defense.

In the old days fire ships were sent against the approaching enemy as the principal means of defense. Now we have a more subtle, more deadly agent in the submarine mine and the automobile torpedo.

With the improved fortifications at Sandy Hook and Fort Hamilton, the peculiar formation of the channels and the protection afforded by the submarine mines, a hostile cruiser would have a hard time in getting within shelling distance of the city. The main channel is the only accessible one for large vessels, and this is amply protected by submarine explosives.

The attacking force would here meet with unsurmountable difficulties. In the first place the largest vessels would have to wait for high tide to cross the bar, and the previous removal of buoys, lightships, beacons and range marks would render the channels almost impossible to find. The works at Sandy Hook would have a point-blank fire on the entrance to both the main and the Swash channels. The East Channel would be under the direct fire of both Coney Island and Sandy Hook.

SOME OF THE DIFFICULTIES.

It will readily be seen that the hostile fleet aiming to attack the city of New York would first have to run the risk of being blown up by submarine mines. Granting that by the aid of torpedo catchers and mine destroyers, which might possibly be sent in advance, the invaders could overcome that difficulty, they would then have to cope with our fortifications.

Passing Sandy Hook only by capturing that point, the next obstacle to present itself in the main channel would be the Narrows, with Fort Hamilton on one side and Fort Wadsworth on the other. It would be a strong fleet, indeed, that could accomplish the feat of passing these works. And it would only be by doing so that the city could be menaced. The chances of success would not be one in a thousand.

Six miles is the effective range of a 12-inch mortar. Circles within a radius of six miles of Sandy Hook and Coney Island would extend so far south and east of the "deep water pocket" that no ship could approach within eleven and a half miles of Brooklyn without being under mortar fire.

THE MODERN MORTARS.

And as to the mortars. The modern mortar differs materially from the old-fashioned affair, which was little more than an exaggerated iron pot. The modern mortar is practically a rifled breechloading gun, much shorter, however, in length than the ordinary service gun and much more rapidly and cheaply constructed. Instead of throwing the projectile directly at the object aimed at it fires at a very high elevation, and the projectile plunges downward at the same angle, with a velocity equal to that with which it went up. An effective range of six miles is attainable.

A moment's thought will readily demonstrate the fact that in case of an attack upon New York our defense would prove much stronger than the attacking force. We have natural advantages, as well as the equipments of warfare. And while it is, of course, possible for the invading force to clear the water of submarine explosives, those engines of destruction nevertheless play no unimportant part in our plan of defence.

The bay is strewn with fixed mines and movable torpedoes. It is generally conceded to be useless to lay mines at a distance of more than two miles from the guns which protect them. Consequently, even could the enemy (provided, of course, that there is an enemy) destroy our mines, that feat would have to be accomplished under the fire of our guns.

But the main thing to bear in mind is that there is absolutely no danger of seeing the alarmist's gory predictions realized. Graphic pictures of shells blowing great buildings to atoms are but figments of an imaginative and not altogether healthy brain. You need have no fear that your breakfast may be interrupted some morning by shot and shell shrieking over your head. You are as safe in New York City, provided war should come and hostile warships should threaten us, as you would be in Schenectady. It's a comforting thing to know.—New York Herald.

Try McMorry's 50c uncolored Japan tea; E. B. tea, 60c; G. P. tea, 75c; P. F. Japan tea, 40c; 531 M street.

For Colds

and coughs and all lung troubles

Ayer's Cherry Pectoral

is the standard remedy. It is now put up in half-size bottles.

HALF SIZE---HALF PRICE.

TAKE

A man whose hands tremble and whose voice is weak and you will find that he is but half a man as a rule. His knees shake, too, and he is but a weakling. He sees spots before his eyes and has no confidence in himself. He has in some way abused the privileges which are his by right. And he possessed them once. It is for cases of this sort that "Hudyan" is given by the grand doctors of the Hudson Institute. "Hudyan" brings to weak men full vitality and grand manly vigor. From being puny a man becomes full of fire and big and great manhood. Is that not worth the having? Why do you want to continue as you are? Your happiness is dependent on your ability to enjoy life. Then why not get back the vitality that has drained away from you? Write and ask what "Hudyan" has done for weak and erring mortals. Testimonials and circulars about it are quite free to you, and so is best medical advice. There is blood taint in some people when they are not aware of it. Ulcers in the throat, pimples on the body, copper-colored spots, the falling out of hair, show it. "30-day blood cure" removes all the taint at once. Circulars and testimonials of it are free to you. Write to-day.

HEED.

Hudson Medical Institute

Stockton, Market and Ellis Streets,

SAN FRANCISCO, CALIFORNIA.

A Beautiful Job.

Have you seen that TRAP now on exhibition at Diggs'—the one with the horse hitched to it? Took first premium at the St. Louis Fair. It's a surprise. Price, $275, with rubber tires.

DIGGS & CO.

Importers and Jobbers. 1008-1010 Second St.

MOLDED MARBLE.

Satisfactory Results Secured From Experiments.

Experiments by John Nicolson, Professor of Mechanical Engineering at McGill University, and myself have demonstrated that under certain conditions marble may be molded like clay and at the same time retain its entire tensile strength. Satisfactory results from these experiments have been secured after labors extending over three years in the laboratory of McGill University. The knowledge we have gained is of equal importance to the scientific experimenter and the builders of the great structures of stone that are seen in the cities of both Canada and the United States.

It is apparent that if marble will yield to continuous pressure of a certain force, without the aid of any process to soften it or render it in any way more tractable, then there is a limit to the pressure to which the lower stone sections, the foundation of large buildings, should be subjected.

Our experiments have aimed at ascertaining whether it is possible by subjecting rocks artificially to great pressure, under conditions which obtain deep down in the earth's crust, to mold them and cause them to flow like plastic bodies. The material upon which we have experimented so far is the pure white statuary marble from Carrara, and the experiments have shown that this rock, so hard and brittle, may, under certain conditions, be molded like clay.

Small columns of the marble about one and a half inches high and one inch in diameter were accurately ground and polished. Heavy wrought iron tubes were then made, imitating the plan adopted in the construction of heavy guns, by rolling long strips of Swedish iron around a bar of soft iron and welding the strips to the bar as they were rolled around it. The core of soft iron comprising the bar was then drilled out, leaving a tube of Swedish welded iron, so constructed that the fibers of the iron run around the tube and thus give it great strength, and at the same time, when the pressure becomes sufficiently high, allows it to bulge very considerably before breaking. This tube was then very accurately fitted on to the column of marble. This was accomplished by giving a very slight taper to both the column and the interior of the tube, and so arranging it that the marble would pass only about half way into the tube when cold.

The tube was then expanded by heating so as to allow the marble to pass completely into it, leaving about three-quarters of an inch of free tube at either end. On allowing the tube to cave, a perfect contact between the iron and marble was obtained, and it was no longer possible to withdraw the latter. Into each end of the tube containing the column an accurately fitting sliding steel plug was inserted, and by means of these the marble was submitted to a pressure far above that which would be sufficient to crush it if not so inclosed.

The machine employed in obtaining the pressure was especially built for these investigations, and is so arranged that the pressure may be maintained for weeks or months if required. Pressure of from 15,000 to 25,000 pounds per square inch has been employed. Under these circumstances the conditions of pressure to which the marble is subjected are those found deep down in the earth's crust, in what is known to geologists as the "zone of flow"—that is to say, the marble is submitted to a pressure far above that which would be sufficient to crush it, but it cannot break or move until a very much higher pressure is reached, under which the iron tube slowly gives way, and is bulged out by the marble, which acts like a fluid body within it.

The tube slowly bulges out until a very marked enlargement of the portion surrounding the marble has taken place. The tube is then cut open longitudinally along two lines on opposite sides by means of a milling machine.

The marble within the tube is still so hard and firm that it holds the two sides of the tube together so firmly that it is impossible to tear them apart without mechanical aids.

The marble adhering to each side of the tube can then be removed in a solid block by opening out the metal, and the flattened out column may be obtained by placing the two halves together. In one case the marble was flattened down to one-half its original hight.—New York Herald.

Set on Fire by the Waves.

On the western coast of Ireland, at Ballybunion, the sea set fire to the cliffs. For centuries the great Atlantic rollers had been breaking them down and making great fissures in them. In their depths were masses of iron pyrites and alum. At last the water penetrated to these, and a rapid oxidization took place which produced a heat fierce enough to set the whole cliff on fire. For weeks the rocks burned like a regular volcano, and great clouds of smoke and vapor rose high in the air.—Cleveland Leader.

Lewis Carroll's Humor.

The second number of the "Longbow" gives some amusing pieces of Lewis Carroll's humor from the forgotten pages of Oxford pamphlets. During the election at Oxford in 1865 he gave vent to the following Euclidean definition: "Plain superficiality is the character of a speech in which, any two points being taken, the speaker is found to lie wholly with regard to those two points." A note is also given on the right appreciation of examiners: "A takes in ten books and gets a third class; B takes in the examiners and gets a second. Find the value of the examiners in terms of books also their value in terms when no examination is held."

Which Did He Mean.

"We have plenty of churches," said the Alderman during an interview. "What we want is more public halls."

The compositor, however, set it up "public hauls," and the proofreader, who had once posed as a politician, let it go at that.—Chicago News.

Matrimonial Explosions.

"After all, a married man has the advantage of a battleship.

"In what respect, pray?"

"When he gets blown up he knows what did it."—Chicago Record.

Answered.

Kind Old Gentleman—Dear me! Do you smoke cigarettes?

Disdainful Urchin—Cert! What else are they good fer?—New York Evening Journal.

HAIR HUMORS

Itching, irritated, scaly, crusted Scalps, dry, thin, and falling Hair, cleansed, purified, and beautified by warm shampoos with CUTICURA SOAP, and occasional dressings of CUTICURA, purest of emollients, the greatest skin cures.

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Treatment will produce a clean, healthy scalp with luxuriant, lustrous hair, when all else fails.

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SKINS ON FIRE with Eczema instantly relieved by CUTICURA REMEDIES.

MEETING NOTICES.

WASHINGTON LODGE, NO. 20, F. and A. M.—Called meeting for Master Masons degree THIS EVENING, at 7:30. Master Masons cordially invited. 1t* P. B. JOHNSON, W. M.

CAPITAL CITY REBEKAH Lodge, No. 160, I. O. O. F.—Regular meeting TO-NIGHT at 7:30. Members of sister lodges invited. SADIE BURNS, N. G. Gertie Ross, Sec. (B. C.) 1t

COLUMBIA LODGE, NO. 42, K. OF P., will give a smoker THURSDAY EVENING, March 24th. All members of the order are invited. G. C. KROEGER, C. C. T. H. Waterland, K. of R. and S. 1t*

Y. M. I., NO. 11.—REGULAR MEETING THIS (Thursday) EVENING in Pioneer Hall at 7:30 o'clock. Visiting brethren cordially invited. J. T. McNIFF, President. T. C. Buckley, Secretary. (B.C.) 1t

OLIVE BRANCH LADIES' SOCIETY.—Regular meeting THIS (Thursday) EVENING, at 7:30 o'clock. Entertainment. Please bring refreshments. M. J. THOMAS, President. Della Haedrich, Rec. Sec. 1t

WANTED.

APPRENTICE GIRLS WANTED AT 1006 Seventh street. mr24-3t*

WANTED—RANCH, HOTEL AND DOMESTIC help furnished at Sixth-street Employment Office, 921 Sixth street. Sunset 'phone red 541.

BOILERMAKERS WANTED AT RISDON Iron Works, San Francisco; six months steady work to good men. mr24-3t

POSITION AS CASHIER AND BOOKKEEPER or any office work by a lady with experience. Address L. T., this office.

$12,000 WANTED ON GILT EDGE CITY property; will pay 6 per cent. net for five years. Address P. O. Box 488, Sacramento. mr23-7t

WANTED—A NEAT YOUNG GIRL FOR general housework; family of two; must be good cook. Apply ADAMS-BOOTH COMPANY, 1009-1019 Front street. mr22-3t

SALESMEN FOR CIGARS, $125 A Month and expenses; experience unnecessary; inducements to customers. C. C. Bishop & Co., St. Louis, Mo. TuThSu

JAPANESE YOUNG BOY WANTS SITUation to do housework. T. Hanabusa, 412 J street. mr22-6t*

WANTED—500 MEN TO TRY OUR great 10c meal. Ham and eggs, 10c. Mint Restaurant, southwest corner Second and K streets. mr20-7t*

CHEAPEST SOLING ON EARTH. Gents, 45c; ladies, 35c at 1011 J street.

JAPANESE DOMESTIC AND RANCH hands furnished on short notice at Japanese Inf. Agency, 817 Sixth street.

1,000 MEN TO HAVE OLD HATS MADE new. 1124 I street. W. L. ROURKE.

FIRST-CLASS HELP OF ALL KINDS furnished on short notice. J. Q. ADAMS, 1014 Fifth st. Tel. Cap. 142.

WANTED—ALL KINDS OF KITCHEN and farm help at Plaza Employment Office, Ninth and I. W. A. WALL, Prop. Cap. Tel. 273. Sunset, black, 654.

SELECT SCHOOLS.

ATKINSON'S BUSINESS COLLEGE has inaugurated a series of short talks by business men. "Commercial Banks," Mr. Frank Miller. "Savings Banks," Mr. George W. Lorenz. "Transportation," Mr. H. J. Small. "Laws of Business," Judge J. W. Hughes. "Civil Government," Colonel H. Weinstock. "Real Estate," Mr. D. W. Carmichael. "Life Insurance," Mr. E. I. Galvin. "Stenography," Mr. Warren Doane. Former students who desire to attend are requested to address the Principal.

HOWE'S ACADEMY AND BUSINESS College, 1019 J street; tuition, $6 per month. Send for catalogue.

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Is composed of drugs obtained entirely from the Vegetable Kingdom, those which experience has taught us contains stomachic assimilative, cholagogue and laxative properties, thus it will be found useful in indigestion, dyspepsia, biliousness and constipation. We exhaust the crude drugs in the most scientific manner and every detail in the process of manufacture is done in our store, therefore we can conscientiously recommend it. It contains no poison and may be given to children with perfect safety. Price 75c bottle. FRANCIS S. OTT, No Percentage Pharmacy, 200 K street, south side Second and K.

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415 O ST.—TWO OR THREE NICELY furnished front rooms for housekeeping.

NEW MODERN 5-ROOM COTTAGE AT 614 Eleventh street; all conveniences. Apply to P. SULLIVAN, 1100 E street. mr23-7t*

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THE PARTNERSHIP HERETOFORE existing under the firm name and style of Kromer & Howard is this day dissolved by mutual consent. Mr. Howard retiring. Mr. Kromer will continue the business, collecting the indebtedness due said firm and assuming all liabilities of the same. GEORGE KROMER, AVERETT HOWARD. mr23-3t

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FOR SALE—ONE OF THE OLDEST AND best established saloon locations in Sacramento; owner is going to Alaska April 1st; must sell before that date; will take $200 cash; rent only $30 a month; will give lease to suit. Apply by letter to B. F. J., "Record-Union" office. mr19-1w

THOROUGHBRED BLACK AND White Langshan eggs for sale, $2 per setting; also Pekin duck eggs, 50c per setting. MRS. A. E. Taylor, Routiers, Cal.

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A. P. Catlin. A. L. Shinn. J. C. Catlin. CATLIN, SHINN & CATLIN. 301 J street.

GROVE L. JOHNSON, —Lawyer— Rooms 4, 5 and 5½, Stoll building.

M. S. WAHRHAFTIG, ATTORNEY-AT-Law and Notary Public, 301 J street (up stairs), Sacramento, Cal.

Wm. S. Howe, Notary Public. S. Luke Howe HOWE & HOWE, —Attorneys-at-Law— Sutter building, No. 428½ J street.

Arthur M. Seymour. Clinton L. White. WHITE & SEYMOUR, Stoll Building, corner Fifth and K sts.

J. J. Henderson, W. F. Renfro, J. O. Prewett. PREWETT, RENFRO & HENDERSON, —Lawyers— Office, 628½ J street. Sun. Tel., white 181.

J. Frank Brown. Arthur E. Miller. MILLER & BROWN, Attorneys-at-Law. 405½ J street. Telephones, Capital 314, Sunset, 744 red.

HIRAM W. JOHNSON, —Attorney-at-Law— Rooms 26, 27 and 28, third floor, Stoll Building, southwest corner Fifth and K.

A. P. CATLIN, Attorney and Counselor-at-Law, Northeast corner Third and J.

Eugene Aram. A. L. Hart. HART & ARAM, ATTORNEYS-AT-Law. Office, Fifth and J streets, rooms 12, 13 and 14, Sutter Building.

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COAL AND WOOD. GENUine Willow stove wood, $4 per cord; willow 4-foot wood, $4 50 per cord; pine stove wood, $5 per cord; white oak stove wood, $6 per cord; live oak stove wood, $7 per cord. Also all kinds of coal, coke and charcoal at lowest prices. 518 L street. Cap. Telephone 538. McCAW & SON, Prop.

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THE BALDWIN FEED AND Sale Stable. Rice Hays has now opened and is ready for business. Auction every Saturday at 10 a. m. 1111-1113 J street.

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DR. B. F. PENDERY, OFFICE CORner Fourth and K streets, over Hammer's Drug Store. Hours 10 to 12, 2 to 4:30, 7 to 8:30. Telephone Capital 584.

W. W. MACFARLANE, M. D.—OFFICE Fourth and K; residence 716 19th st.

DR. P. R. WATTS, 1006 Eighth Street—Office hours, 10 to 11 a. m., 2 to 4 and 7 to 8 p. m. Sundays, 1 to 2 p. m.

REMOVED—DR. McGAVREN HAS REmoved to Sutter building, Fifth and J.

DR. MARY M. CRONEMILLER—628½ J st.; 9 to 10 a. m., 1 to 3:30 and 7 to 7:30 p. m.; tel. office, 473; res. 406. Sunset, 182.

DR. W. H. BALDWIN, OFFICE, 1029 2d st. Hours—10 to 12, 2 to 4, and 7 to 8. 'Phones, red 963. Cap. 59. Residence 1100 H street. 'Phone, black, 431; Cap. 88.

DR. SIMMONS, JR.—HOURS 11 TO 12 a. m., 4 to 5 p. m., 7:30 evenings. Telephones—Office, Sunset red, 891. Capital, 240. House—Capital, 128.

DR. WIARD HAS CHANGED HIS RESidence from 1730 N street to Twenty-second and T. Office at Eighth and J sts.

DR. FAY, 627½ J; TEL. SUN. RED, 934; 10 to 12 a. m., 2 to 4, 7 to 8 p. m. Res. 1729 G. Tel. Cap. 309. Sunset, blue, 31.

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DR. F. M. SHIELDS, DENTIST.—Office and residence 2122 M street.

DR. W. O. GIRARDY, DENTIST—Office and residence, 922 Fifth street. Capital 'phone 437; next to Sacramento Bank.

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