A NEW MOTOR.

AN EXPERIMENTAL BOAT BUILT TO TEST ITS PROPELLING FORCE.

Mr. Secor's Electric Yacht Eureka, That He Expects Will Blow Its Way Through Water at an Unheard-Of Speed-Its Success Will Revolutionize Navigation.

[Special Correspondence-]

NEW YORK, Feb. 3.-An invention that attracts considerable attention from everyone interested in navigation is just now being tested here. It is in the nature of a novel method of propelling vessels by com-bining steam power with the explosive power of petroleum fired by electricity. The precise details of the invention are kept a close secret, as the whole scheme is still in the experimental stage, but your correspondent and artist was permitted to make a superficial examination of the apparatus, the rest being left to conjecture.



THE EUREKA.

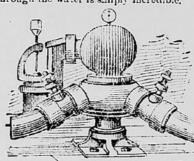
The inventor of this new combination of power is John Secor. He has given a uch time and experiment to the study of the the mountain fas nesses they knew so well subject, and as a complete test of the capa- If pursual too horly, a few hours' fast and bilities of his invention has constructed a jurious riding took them over the border invessel of about 100 feet in length. The only difference between her appearance and ordinary steam craft is that she time. They were well armed and well tinguished blood, has been shed a this latter appearance of wording the United States soldiery, at lenst for the the war is over. No blood, at least no distinguished blood, has been shed a this latter appears to have no visible means of propul-sion. There is no wheel or paddle, it is true, have been a red vengeance on our border. but not far from the stern, on each side, under water, are two square pipes, from which it is expected gas will be forced against the water at a pressure exceeding 100 pounds to the square inch. The inventor claims that he can develop a continuous pressure of fifteen tons against the water from the mouth of each pipe. If this proves to be a fact, the vessel will move through the water at an unheard-of speed, and without the jar and tremor that usually accompanies our present methods of propulsion.

Explosive engines of various kinds are being used successfully for many purposes now, but the method of increasing the force by exploding a compound in compressed air and releasing the tremendous pressure to exert itself against the water is the novelty in Mr. Secor's invention. If successful, this principle can only be applied to navigation. though Gen. Thayer, of Philadelphia, exa question, though, whether the weight of killed, the powerful machinery necessary can be supported in air. Mr. Secon's scheme could



DIAGRAM OF LOCATION OF MACHINERY.

The accompanying diagram shows at a glance the position of the machinery. The small space it occupies is the first thing noticeable. The room taken up by machinery can be further economised, giving still more space for cargo. The machinery consists of a boiler, air compressor and generator. The principal of the invention is this: The steam engine drives a very powerful air compressor, and also a small dynamo, for generating electricity. The air compressor pumps air into a very powerful receptacle called the generator. Into this compressed air, at a pressure of 500 pounds to the square inch, pumped a small jet of petroleum, which is immediately ignited by an electric spark communicated to the interior of the gener-At the moment the explosion of the petroleum occurs a valve flies open and allows the tremendous pressure of gas and compressed air to escape in the pipes which have their outlet in the The pressure of the gas and air against the water at the mouth of these tubes will, of course, not equal that in the generator at the moment of the explosion of the petroleum, but Mr. Secor claims that he can produce these explesions in the generator eighty times a minute, if necessary. In this way, according to his figures, if one explosion will exert a pressure against the water of thirty tons, a total pressure of 2,400 tons will be brought against the water in one minute. If this proves possible, why, the rate of speed at which boats will shoot through the water is simply incredible.



THE GENERATOR.

The success of Mr. Secor's invention opens unheard of possibilities-in fact, a complete revolution in everything pertaining to commerce. The small amount of fuel required, together with the tremendous power developed, would solve the problem that is puzzling the architects of the great ironclads of the world, or at least remove one horn from their dilemma. The tremendous power required to propel them through the water necessitates an enormous supply of coal, and this again is hardly possible, owing to the tremendous weight of their armor and guns. Then, again, the speed vessels rould attain would bring closer to us foreign ports and lands that are now high unaccessible. Besides, the cheapness of transportation by this method would turn attention anew to our rivers and canals and recapture from the railroads in many cases their present prestige. The whole scheme is at present at the stage the "Keely motor" has been for years. A few days will determine whether it is to be a failure or success. If the latter, then indeed has this first bont

been appropriately named, and its owner can, with old Achimedes, rush away from the water shouting: "Eureka! Eureka!" I have it! I have it! S. H. HORGAN.

No Congressional Humorists

There are no professional humorists in congress this session. Tom Reed, of Maine, comes as near being one as a statesman of his avoirdupois could. The three great congressional humorists were Sam Cox, Proctor Knott and Jim Belford-and see what they have come to! Belford—and see what they have come to! Belford is hustling for law business on the streets of Denver, Cox is salaaming to a Mahometan despot and dreaming his soul away in the enervating atmosphere of the Bosphorus, and Knott is issuing notary commissious and pardoning negroes out of the Kentucky penitentiary.—Chicago News,

A Bad Indian. When Hon. Carl Schurz was secretary of the interior, in one of his reports he characterizes the Apaches as "bad Indians." That was several years ago. They have not important the tendency of our time. But he is in favor of plentiful religious instruction, All with see him leave the presidency of was several years ago. They have not improved in behavior since. For a year and Apaches have been terrorizing the south-west. The exact number of braves he had with him cannot, of course, be exactly known, but it was between twenty and thirty. Over a tract of country as large as a goo issized state these reiskins have been rounding, stealing cattle, horses and food, and neurdering and destroying. They knew the country like a fox. They were brave, cunning, remorseless and untiring. After committing a robbery or a murder they fled like the wind, and took refuge in some of mounted. For months, years even, they attempt, but no end of hard feeling has been

Emmet Crawford to pursue and capture after month he fol-

pects to use some such idea in propelling his importance and the propelling his importance and the pects to use some such idea in propelling his importance and the pects of the propelling his importance and the pects of the pe

the powerful machinery necessary can be supported in ar. Mr. Secor's scheme could not well be used on land, as there is no convenient medium for his high pressure gas to blow against, as in water, except the air, and that would be impracticable.

He had with him as guides a company of friendly Apach: Indian scouts. The force of these was larger than Geronimo's own. They were the mor'hist crew that ever started out soldiering. They were taken over the Scuttern Pacific railway to a point as neur the scene of hostilities as possible. They were locked in a car to themselves with a United States lieutenant.

with a United States lieutenant.

"I suppose you know," said the train conductor to a newspaper correspondent, "that to give them red devits a drink of whisky all around would be to turn them into hosties a train to hosties."

The motley warriors had been given high re ides in Crawfordsviile when he fordsviile when he hats, out of which they hal, without exception, torn the crown, so that their hair stood a lawyer, and was ragged y out at the top. Some of them were six shirts apiece, and one, the envied a boy soldier in the of all, gloried in drapery made of a red cot-

Now that he has been caught, it will be a question what to do with him. He and his band belong to what is called the Chiricahua branch of the Apache tribe. The White Mountain Apaches are friendly,

The Apaches used to be the white history friend and nily. When the truth of history shall be known it will be found that there shall be known it will be found that there of 1885. It was not for nothing that Geronino and his band of scalping savages took the war path. vengeange for wrongs, and deep wrongs their tribe had suffered at the hands of the conquering white. Breaches of faith go down no better with a savage mind than with a civilized one

Sin e Geronimo has been captured let us hope that even the Apaches may be civilized. The Sioux were as bad as they less than twenty-tive years ago, and the Sioux are now among the best of good Indians.

President Noah Porter.

In 1871 President Theodore Dwight Woolsey resigned the presidency of Yale college because he was getting to be an old man. He had been at the head of Yale twenty-six years, and was 70 years old. He had graduated there in 1820. He was succeeded in office by a man whose history was very simi-

Noth Porter, too, graduated at Yale college at an early age. The old institution is fortunate in having distinguished men enough among her own alumni to choose a sgitable person to fill her presidential chair

Noah Porter was born in Connecticut in 1811; consequently he is now 75 years old. Like President Woolsey, he is a D. D. and au

LL D Like President Woolsey, also, Noah Porter has made a distinguished figure in the theological world. Both have been eminently conservative in the course and their ideas, without exactly being what this irreverent age calls old fogy, though of the Yale faculty

in refusing a di-ploma to the only NOAH PORTER.

young woman law student the college ever had smacks of that spirit.

Finally, the parallel between the two distinguished presidents is continued in the reasons for their resignation. Noah Porter, too, resigns because he is getting on in years. He confesses, however, that he is not scious of any failure in either mental or physical strength. At the banquet tendered one who heard it. The principal musicians him at Delmonico's, New York, by the Yale in Vienna immediately took is eps to enable alumni, on the occasion of his resignation, , her to complete her training. Her su cess

he said he wished to free the college from was rapid and without any drawback from

for the best interests of his aima mater. Yale has prospered famously during the fifteen years' administration of President The first year he held office the number of students was 800; it is now 1,076. When he took charge there were seventy-one instructors; there are now 114. President Porter will leave in the Yale college treasury a fund of \$2 155,705, an increase of over prisonwent if she did not faitill her contract,

and practical studies for the oid classical and mathematical course and the permitting students to choose one out of a dozen or

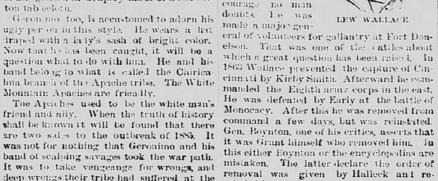
Yale with regret. He still retains the prochosen president. He simply, therefore, returns to his old place. He has been in his

Lew Wallace, Soldier and Novelist. It seems to have been a good deal easier to fight the battles of the rebellion and estal. lish the south back in the Union than it is to It was the task of the lamented Capt, tions have been sprung, which no judge or engendered, and several great historic quesursue and capture these fields. Month after mouth he follows

lowed them, through waterless the dumble the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan, has now come nome to set his the caucht the suitan that the s That brilliant, versatile and brave man, d seris, through fellow countrymen by the ears by raising spines into rocky military questions of the kind name I. Gen. Wallace declares that Halleck hated Grant canyons and over lava beds, till at last he ran them down in Mexico. Latterly the Mexico Latterly the Mexi can and United and replaceable persons of the presidential enhances of the coemy if States governChilly Genoriae. ments have been co-operating o ral both countries of these pests. Two forces, one of Mexicans the other United States soldiers, hemmed Geroniae in between them Jan. 10. Geroniae

He had with him as guides a company of were, Gen. Wallace avs. Thereupon a whole

a boy soldier in the Mexican war. His courage no man



scinded by Grant. Howsoever these things may be, we care not. Gen. Wallace is a brave, capable women come from toiling and moiling soldier, and everybody knows it. As a law- in the rude warfare of life. She touched yer, he was member of the court that tried who was the trusted frient of the sultan. He upon the Buddhist theory of re-embodiment of souls, and facetiously declared that when she was reincarrected as a man and they behas just cleared \$30 000 in a commercial deal, it is said. Now let him settle down to them for the way they had broken literature. In "Ben Hur" he has given us heart. There would be only one drawback one of the most splendid novels that ever was or ever will be written in America, and he can do it again. Ben Hur, a Tale of the Christ," is a perfect story, a crystal without flaw. "The Far God," a Mexican romance, is scarcely inferior.

Do it some more, Gen. Wallace. Let military spites and jealousies alone, and get thee to literature. Go!

Pauline Lucca.

One of the song birds of passage that has flitted across this country and left none but kindly memories of her charming voice and sweet face was Pauline Lucca. It will pain the music-loving public the world over to learn that she has been for some time awaiting death at her home in Europe.

Mme, Lucea was born in Vienna in 1840. Her parents were so poor that they were un-

able to educate their children. Their name was Lucas, and they were of the Jewish faith, which she abandoned. A traveling singer discovered that she possessed a promising voice, and he generously under-took to instruct her. When 15 she became a member of the choir of the Karl kirche. Through the unavoidable absence

take her place.

the vulnerable point due to the old age of its president. It shows his single-hearted desire crease her popularity occurred at almost crease her popularity occurred at almost her first operatic engagement. She was insulted by one of the female artistes of the company, who was jen'ous of her success. Mme. Lucca immediately informed the manager that unless she received an ample apology from this person that nothing could induce her to sing in the same company with her. The manager threatened her with im-She persisted in her resolution, and deliberately went to the prison and gave herself up. She was looked up one whole day. Rather than lose her services her manager was com-pelled to induce the offending lady to apologise to Mme. Lucca. Her principal suc-ces es were made at Olmeitz, Prague, Berlin, Vienna and London. In 1865 she married Baron Von Rohden, but he was killed in the Franco-Prussian war of 1870.

> James McNeill Whistler. The announcement that J. McNeill

Whistley is about to revisit this country, his native land, eatls attention anew to this erratic artist. He has long been probably the most talked of man in London, attempting as he does to set the fashion in art as Oscar Witde did in dress, He is the original of Buncherne in "Patience." His mak up and succountings and afficiations and egoti in have formed the subject of more than one letter written to American newspapers by London correspondents. His suit against Mr. Ruskin, who hotly charged him with mlinging a pot of paint in the face of the public," is among his recent felicities, and he wears on his chain the halfpenny awarded his reputation and feelings, lie comes to America to repeat his 'Ten O Clocks," His "Ten O Clocks" are lectures, and he goes on the platform to deliver them at 10 o'clock at night, for eccentricity's sake presumably. If whistler comes here let it be hoped that his 10 o'clock will be changed to 8. up too late as it is. He is original, and his affectations are the outcome of his original ity, and if he comes to America people will make much of him, especially as he returns to his native country with the English trademark on him.

A WOMAN JOURNALIST.

Her After Dinner Speech at the Sorosis Banquet.

[Special Correspondence.] Your, Feb. 3. -Sorosis held its seventeenth annual druner, on the evening of the 221 ult., in Delmonicos elegant parlors, To these verify banquets the alleged To these yearly banquets "sterner sex ' are invited and treated with fla tering consideration. They are even permitted to have their little say after the din ner is over. On this occasion the assemblage was made up of particularly eminent women and men, and the speeches were extraordinarily brilliant. Julia Ward Howe and Moneure D. Conway were ususually happy n their remarks, but the "hit" of the evenig was made by Eliza Archard Connor, a New York journalist, originally from the west-from that notable and president producing state. Ohio.



(Photographes by Falk, New York, I She turned the tables on the men, "God this either Foynton or the encyclopedias are | bless 'em," and made them the kind of speech they are in the habit of making to The cost is hardly more than that of "the ladies, God bless 'ein," urging them "not to less their softness," and eulogizing them for setting out the slippers when the came women she would take revenge on in being a New York man, and that was that if she followed the present custom she would be obliged to keep her seat in the

street cars while women stood. The delic.ous humor and satire of the speech was received with uprograms applause. Everybody was delighted with it. This lady, however, whose picture accompanies this, has other and more substantial claims to the admiring consideration of the public. As a journalist she has made an honored mark. For years she was on the editorial staff of The Cincinnati Commercial. In correspondence she is particularly happy. Her foreign letters to The Commercial, over the initials "E. A.," were copied far and wile.

fearlessness having made her journalistic reputation. In capacity for constant and conscientious hard work she probably has but one equal, and that is Jennie June. is a graduate of Autioch college in its best

Her sympathy for women in all their earnest undertakings is her distinguishing trait.

She is one of the few women who grow handsome the longer they live. She has a delicate, flower-like face, colorless and symmotifical, prematurely gray hair, worn in soft, loose rings over an admirably poised head. Her re-emblance to Ellen Terry is marked. Though she speaks softly and has gentle manners, she fears nothing, and has one of the kindest hearts in the world.

She has special talent for public speaking, and may one day give the world the benefit of it. At present she is the editor of the scientific department of the American Press of a leading vocal. PAULINE LUCCA. Association, having always had a strong ist one Sunday, Pauline was called on to taste for all phases of science. Her news-Her voice astonished every paper letters are signed Eliza Archard.

GERTRUDE GARRISON.

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