TO GROSS THE OCEAN IN JUST TWENTY-EIGHT HOURS.

A submarine boat has at last been in- | as a means of warfare by every civilvented which disposes of the question of | ized nation on earth, power and speed by a novel method. Hitherto experiments in this line have seen met by the difficulty of placing powerful engines in a small compass, where there is little air, and room, and where the disposition of the smoke has created serious obstacles to complete submersion for any considerable length of time.

Now, however, not only has a subanarine boat been invented which will, as its inventor claims, propel itself through the water with less waste of power than any boat hitherto designed, but which is alleged to be able to accomplish the voyage from Europe to America in the incredibly short time of twenty-eight hours.

That is the rate of speed which Mr.

has built differs from all others of its kind in the process by which it is shoved through the water. Hitherto all experimenters with sub-

marine boats have adopted the screw principle, and the craft which they have designed were, in respect of locomotion, no different from the ordinary tug to be seen on the North River. All uniformly adopted the stern screw, which has not been improved in any important particular since it was designed by Ericsson.

Placed on a submarine boat, however, the stern screw developed weakpesses which were not manifest when it was applied to the ordinary craft that float on the surface. In a submarine boat the entire surface of the structure offers friction and resistance to the water, whereas in a floating boat only the submerged parts offer such resistance

A submarine boat of 100 tons displacement offers thus more than three times the frictional surface of a boat of similar capacity floating in the ordimary manner. At the same time when the stern screw is applied, there is no corresponding increase of power.

Mr. Apostoloff has met this difficulty by entirely dispensing with the stera screw. He has made his boat the screw

The possibilities which this invention opens up are interesting and romantic. It is claimed by the inventor that so well has he economized force, wrecks of treasure ships lying at the greatest depths are within easy reach of his

But a few minutes, he says, would be required to descend from the surface and steam to the bottom of the ocean in its deepest parts. There wrecks might be explored, strange fish captured and new forms of submarine life discovered.

By means of electric light furnished from dynamos connected with his engine, the bottom of the ocean might be illuminated not only at night but in places too deep for the daylight to Apostoloff, a Russian electrical engin- | penetrate. The submarine explorer eer residing in London, claims to have | might step from this boat to the botbeen developed by the novel submarine tom of the ocean, carrying in an alumiboat built by him after long study and num case strapped to his shoulder a last him several hours.

This aluminum case might, through gun specially designed for submarine use. Thus a new form of hunting might be provided.

The submarine explorer, his feet weighted down with lead, his head encased in a diver's helmet properly supplied with valves to permit of the escape of the vitlated air, might roam for hours on the bottom of the ocean, noicelessly approaching the strange animals supposed to inhabit the greatest depths and d'spatching them by means of this newly designed weapon.

Mr. Apostoloff says that the after part of his boat can be supplied with a great pane of thick plate glass, capable of resisting high water compression. When the boat has descended to a great depth and it is desired to sec what the passing submarine landscape may show, the covering may be slid back from this pane of glass, and the explorers may look out upon the novel sights presented by these unex-

plored regions. Comfortably seated in easy armtouch a button which will throw a flood of electric light through the thick bed at its greatest depths. Thus for the grasp upon the surrounding ele

NEW USE FOR GLOVES. Make Sentimental Tobacca

Pouches for the Lover. The wrists of the long evening glove: of the knowing are no longer thrust into the ragbag when the fingers have become incapacitated for further service. The most dainty and unique tobacco pouches are evolved out of these gree of affection with which she rewhite kid plentifully besprinkled with violets, the gift of the present owner of at much expense. The craft which he supply of compressed air sufficient to the pouch. So much of sentiment, howa small tube, supply power to an air the bag has narrow slits cut in it, and hillside is perforated with groups of through these slits ibbon is run around twice, by which the pouch is drawn together like an old-fashioned bag or purse.

HARD ON CATS.

A French Government Commissioner Censures the Conduct of Official Cats.

quire into the grievances of the cats in its employ. Their report is an amusin some of the French military magazines to keep down the surplus populathere is a regulation in force autherthin, so at last the Ministry appointed specialists to inquire into the matter. pane of glass, illuminating the ocean's | These have gravely reported that "the

The French Government has just had occasion to appoint a commission to ining exhibition of official stupidity, and will rouse a righteous indignation in the bosom of all friends of the useful the services began, says the Pittsburg mouser. It appears that cats are kept | Chronicle-Telegraph. tion of rats and mice. Their food is regulated by ministerial decree accord- tracted their attention and they watching to circumstances, and at present izing an expenditure of 21/2 centimes per cat per diem. But this does not seem enough, as the unfortunate Gov- a time several members of the choir chairs, the navigators of his craft can ernmental cats have grown extremely arrived and the cat scampered away,

cats of the army are very slow to ac-He has adopted the principle of the hours they may, says he, recline at custom themselves to the diet pre-

THE SUBMARINE SCREW SHIP AS IT WOULD APPEAR IN MOTION.

boring worm. The boat which he has ease, as if they were in a Pullman scribed by the Government circular. designed worms its way through the car, and look out upon strange, new Thus they seldom eat bread, and never water as truly as the ship's worm spectacles that present themselves to works from end to end of a plank by their view in rapid succession. turning its body into a boring apparates.

marine boat which Mr. Apostoloff has presented to the gaze of the submarine designed. In its place there only appears a huge rudder, capable of raising claims that priceless pearls may thus or lowering the boat in the water, and be found and that untold treasure is of deflecting it from side to side, as the within the easy reach of the daring etcersman may wish.

About two-thirds of the outside surface of the boat revolves around a shaft which runs from end to end of the craft. To this outside surface a screw flange is fastened.

Thus, from the bow to a point considerably aft of midships, the exposed surface of the boat acts as a huge propelling screw. The entire boat works waste of power, as truly as if it were working in a groove specially cut to

At the point where the revolving surface of the boat terminates the fixed portions of its body commences. The revolving parts of the boat constitute more than one-half of its exposed sur-

But it is only the outside shell that revolves. Inside the shell is the real body structure of the boat, and that remains fixed, hanging on its shaft in a

permanent position. The machinery which turns the forward part of the boat is stationed aft, but the whole inside of the structure is open to the submarine navigators, who may walk from end to end of their strange craft without discomfort. The principles of compressed air, of water condensation, of smoke combustion and of economy of fuel are adopted in this strange craft much as they have been

by other experimenters in the same line. It is claimed by the inventor that where the ordinary submarine boat using a stern screw would make a jourthing that few of them have succeeded in doing), his boat could accomplish the journey from Europe to America In the same time. Mr. Apostoloil does not claim that his boat can stay under water much longer than other subma-

Here a wreck, there a great leviathan, then, perhaps, the Atlantic cable, There is no stern screw in the sub- | again some huge crustacean, may be voyagers using his boat, and he even navigators.

To build and thoroughly equip a boat of this kind will, says Mr. Apostoloff, cost \$100,000. Only a very rich man could afford a pleasure craft of this kind.

But it has been pointed out by the inventor that the possibilities of fame and pleasure afforded by this means far outstrip any to be found in other forward or backward, with aardly any | lines of expenditure. The young millionaire seeking novel adventure and fame, says Mr. Apostoloff, could find no better means of achieving his ends than by the construction of such a

He might, he says, invite a select company of scientific men and congenial friends for a summer submarine cruise. The scientific men could find strange new forms of life, and perhaps discover the missing link so cagerly sought for by Darwin during the voyage of the Beagle.

The trip they could subsequently write about, conferring lasting fame upon their patron. The latter might arcuse himself with his friends by taking short submarine hunting trips, finding ever new forms of life to study and

The amazing speed which he says his boat has developed will, says the inventor, place the shore at all times within easy reach of the voyagers. From the middle of the Atlantic a run of fourteen hours under water would at any time place them within a port ney of fifty miles beneath the ocean (a either in Europe or America, and thus the plunging boat, as its inventor calls it, could at any time be almost in touch with the outside world.

Experiment, says Mr. Apostoloff, has convinced him that his boat can navigate the surface of the seas almost as rine boats, but he claims that ft can quickly as when completely submerged. outstrip any craft of the kind yet de- But he says she has been specially designed, and that the time will come in | signed for travel beneath the surface, the near future with a it will be adopted where his novel propeller will find com- whole trouble."-Detroit Free Press.

lap up greasy water unless actually driven thereto by the pangs of hunger, so that they are dying off or else abandoning the military magazines."

Here Is a Name for a B by Girl. The following list of female characters in Shakespeare's works, arranged alphabetically, offers valuable suggestions for the mothers of baby girls, says the New York World: Adriana, Aemilia, Alice, Anne, Andromache, Beatrice, Blanca, Blanch(e?), Bona, Blanca, Calphurnia, Cassandra, Celia, Ceres, Charmian, Cleopatra, Constance, Cordelia, Cressida, Desdemona, Diana, Dionyeza, Dorcas, Eleanor, Elinor, Elizabeth, Emilia, Francisca, Gertrude, Goneril, Helen, Helena, Hermia, Hermione, Hero, Hippolyta, Imogen, Iras, Iris, Isabel, Isabella, Jacquenetta, Jessica, Joan, Juliet, Juno, Kate, Katherina, Katherine, Lavinia, Lucetta, Lucinia, Lychorida, Margaret, Margery, Maria, Mariana, Marina, Miranda, Mopsa, Nerissa, Octavia, Olivia, Ohelia, Patience, Paulina, Perdita, Phebe, Phrynia, Portia, Regan, Rosalind, Rosaline, Silvia, Tamora, Thaisa, Timandra, Titania, Ursula, Valeria, Venus, Viola, Violenta, Virgilia and Volumnia.

A Story of Prof. Herkomer.

Here is a story of Prof. Herkomer, the English royal academician, from the Home Messenger. The artist has an old father who lives with him in his splendid home at Busbey. In his early life he used to model in clay. He has taken to it again; but his fear is that soon his hands will lose their skill, and his works will show the marks of imperfection. It is his one sorrow. At night he goes to his early rest, and when he has gone Herkomer, the talented son, goes into the studio, takes up his father's feeble attempts and makes it. When the old man comes down in the morning he takes the work and looks at it and rubs his hancs and says. "Ha, I can do as well as ever I did."

"Why under the sun does Whimperly want a divorce? His wife had a great deal of money when he married her." "And she has it yet. That's the

A PUMICE-STONE BARRIER.

One of the Results of the Krakotos Ecuption.

A floating barrier of pumice stone 19 miles long, over 1,000 yards wide and 15 feet deep, closing a seaport to all vessels as effectually as a boom could do, is not the sort of thing one is likely to forget and yet that was one of the results of the Krakotoa eruption, the port being Telok Retoung, in Sunda straits, says Leieure Hours. Formed wrists, and the sentiment which has in a few hours, it would almost seem always attached to milady's glove lends to be the supreme effort of nature in an added and piquant charm to such a the pumice-making line were it not gift. Indeed the fad for these tobacco that such immense quantities are found pouches bids fair to outdo all previous at the bottom of the sea-a queer place souvenirs, and the young man fortu- for pumice stone. But pumice, when nate enough to receive one cherishes produced, is really heavy. It is only the It with the most tender pride. They air cavities in it that make it light and are, however, delightfully simple and as it floats it becomes water logged easy of construction. They may be em- and down it goes. Most of the pumice broidered, painted in water colors or we use in Europe comes from the left severely plain, according to the de- Lipari islands, north of Sicily, "the home of Vulcan," whence Vulcano is gards the proposed recipient of her the name of one of them and cur handiwork. One of the prettiest is of "volcano" is descriptive of the natural feature of which it is the type. Here violets, the gloves having graced an are the pumice quarries-at Monte especial occasion where the donor wore Chirica and its craters Monte Pelata and Forgia Vecchia-where over 1,000 men are at work in the narrow tunever, is not at all a necessary accom- nels and galleries, lighted by clay paniment of the souvenir. The top of lamps of antique form. The whole these tunnels, which number between 200 and 300 and are so narrow that the men can hardly pass each other in them. And just as coal is found in beds alternated with sandstone and shale, so the pumice is in layers between harder lavas and ashes.

CAT IN THE PULPIT.

Pastor Caught It by the Neck and the

Usher Took It Away. An inquisitive black cat strayed into the Bristol Methodist Episcopal church on a recent Sunday evening just before

There were very few people in the church at the time, but the loud and plaintive mewing of the stranger ated its movements with interest.

The animal climbed up into the choir loft, perched upon the railing and looked down upon the congregation. After finally climbing down one of the wooden pillars which supported the choir loft and walked down into the aisle. Several of the congregation endeav-

ored to coax the cat into their pews, but the proud pussy ignored them and with stately dignity climbed up into the pulpit and sat on the bible. When the pastor came in a moment later he found the cat in possession of the pulpit, but the animal took kindly to the preacher and began to purr and arch his back at the latter's approach.

The pastor took the cat by the back of the neck and handed it down to an usher, who carried puss out of the church. "This is a good omen, brethren," said the pastor and then he went on and preached his sermon.

Monkeys at Work in the Transveal. Captain E. Moss, who recently returned to London from the Transvaal, tells this story of the monkeys who work for him in the mines: "I have twenty-four monkeys," said he, "employed about my mines. They do the work of seven able-bodied men, and it is no reflection upon the human laborers to say that they do a class of work a man cannot do as well as they. In many instances they lend valuable aid where a man is useless. They gather up the small pieces of quartz that would be passed unnoticed by the workingman, and pile them up in little heaps that can easily be gathered up in a shovel and be thrown in the mill. They are exceedingly adept at catching the little particles, and their sharp eyes never escape the very things that the human eye would pass over. When I went digging gold I had two monkeys that were exceedingly interesting pets. They were constantly following me about the mines, and one day I noticed that they were busily engaged in gathering up little bits of quartz and putting them in piles. They seemed to enjoy the labor very much, and would go to the mines every morning, and work there during the day. It did not take me long to learn their value as laborers, and I decided to procure more. So I immediately procured a number, and now have two dozen working daily in and about the mines. It is exceedingly interesting to watch my two pet monkeys teach the new ones how to work, and still stranger to see how the new comers take to it. They work just as they please, sometimes going down into the mines when they have cleared up all the debris on the outside. They live and work together without quarrelling any more than men do. They are quite methodical in their habits, and go to work and finish up in the same manner as human beings would do under similar circumstances.

Drunkards in Turkey.

This reminds us that the Turks, who are mentioned occasionally in the newspapers, have a singular manner of regulating drunkenness. If a Turk, overtaken with wine, falls down in the street and is arrested by the guard, he is sentenced to the bastinado; this punishment is repeated as far as the third offense, after which he is regarded as incorrigible and called "Imperial drunkard," or "privileged drunkthe work as beautiful as act can make ard." If he is then arrested, he has only to name himself, mention his lodging, say he is a "privileged drunkard," he is released and sent to sleep upon the hot ashes of the baths. Thus does Pouqueville instruct us. But suppose that the privileged drunkard is suffering from a still or a numb and cannot give his name, address or station? What then? Of what avail his honorary title? Boston Journal.

The instinct of the plain people has been right in not calling our oriental visitor "Lee," for, acting out his name as popularly pronounced, this wily dip-lomat has, in England as well as here, required English to be translated to him, whereas, it now appears he has for years past spoken it fluently. This Chinese device of a needless interpreter is a "first-chop" one to gain time for giving answers without causing a delay to be noticed; the mandarian has the time taken in translation for reflection, and, if further reflection is desired, ambiguity in interpretation may be pretended and a new form of the question be required. And yet men tell us that nothing can now be learned from the Chinese!-Time and the Hour. My doctor said I would die, but Piso's Cure for Consumption cured me.—Amos Kelner, Cherry Valley, Ills., Nov. 23, '95,

The October Century contains "A Study of Mental Epidemics," by Mr. Boris Siids, which has a close bearing on American affairs past and contemporaneous. He gives an analysis of the social disorders of the period of the Cruisades and the nervous epidemics of Europe, and explains the theory of mental suggestion or bypnotism, by which the susceptible portion of a tribe or a people or a group of peoples, give themselves up to a popular delusion. In the same number the veteran Free Soiler, the Hon. George W. Julian, writes on John P. Hale, "A Presidential Candidate of 1852."

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The Average Baby's Size.

An average child measures about nineteen and a half inches at birth if a boy and half an inch less if a girl. A child increases more rapidly in length during the first week than at any subsequent period, and should gain an inch during the first month of its life .-Ladies' Home Journal



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A Gentle Reminder "I want you to understand," roared Beefly, "that the sun never sets on the British empire."

"That's right," quietly replied Yank E. Doodle, "but Uncle Sam has found it necessary to set on her once in a

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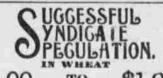
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