Tests Which the British Government Applied to the River Forts to Test Their Invaluerability ... Modern Methods.

In view of the excitement caused by the recent resolutions adopted by the New York Chamber of Commerce regarding the improvements which that body deems advisable in the defenses and fortifications of New York harbor, it is interesting to consider the means by which the War department of the British government proposes to repel any attempt on the part of a hostile fleet to the official pale are aware that a mobilization and manning of the Thames ports and batteries takes place annually, and in a mimic war the efficiency of the defenses is burst of laughter she descends the stairs and him his uncanny voyage: tested. These maneuvers for 1897 are but lately concluded, and the impression created on the mind of a casual spectator is that though more or less satisfactory as far as they go, yet the means taken to defend the great capital leave much to be desired from ment in the railway station Willard, the one point of view, namely, an attack from mysterious correspondent for whom she has the land side, if ever an enemy should succeed in making an effective landing of troops

and glory, her navy.

Ever since Napoleon cast terror throughout the length and breadth of Great Britain

Mine Least at all at the

even the sack of London itself?"

DEFENSES OF THE THAMES.

testing of the machinery, yet the elaborate

and costly instruments, such as telephones

drill, and also in instruction as to the repelling of torpedo boat attacks. The interesting part from an outsider's point of view

and inaccuracies adjusted.

LONDON IMPREGNABLE? thread. Be that as it may it is certain that the torpedo can be directed from the shore, and, with an expert at the belm, the striking

Possibility of a Hostile Fleet Capturing
Capital of England.

HOW THE FORTS WILL BE MANNED

MANNED

And, with an expert at the helm, the striking and blowing up of a ship on every run is a practical certainty, the little engine of war doubling in and out and dashing hither and thither at a speed of nearly ten knots an hour and acting within a large radius.

The result of the "defense of London" maneuvers shows that no hostile fleet could ever hope to force or even obtain by stratagem a passage beyond the defending batteries, but, in comparing the defenses of that city with those of New York, it is advisable to consider those of New York, it is advisable to consider that the waterway of this harbor is much more difficult to defend, as the enormous area and open situation is greatly to the advantage of a powerful fleet of battleships which would make their attack at a great distance. The Illienteen maneuvers of Longitziane. distance. The Hilputian maneuvers of Lonwould have to be conducted here on a odignagian scale. R. SCALLAN. brobdignagian scale. Lieutenant Royal Artillery.

FAITHFUL INFIDELITY.

Adventure in Which Two Persons Are "A dylog friend, I shall be late. Do not

lord and master scarcely deported. take London by surprise. It is not gener-Bertha bustens to her boudoir. With nervous marine trial trip in this remarkable vessel ally known, in fact, very few people outside flugers she adjusts blonde wig. Parislan hat and veil, relates the Philadelphia Bulletin.

"Tres chic, n'est ce pas?" a moment later the street door closes with a bang behind her.

Her first rendezvous!

Tall, with imperial and moustache-red, it eluding the vigilance of England's pride must be confessed, but so distinguished—budsome and masculine, he appeals to her as

JULES VERNE'S DREAM A FACT

Romance of Fiction Real zad in Wonderful & ubmarine Eoat.

PASSENGER DESCRIBES HIS EXPERIENCE

Practical Test of a Craft Which Dives Beneath the Water and Crawls the River Bed_A Marine Frenk.

Jules Verne's dream has been realized by Captain Lake, an ingenious Jerseyman. The latter's submarine boat, the Argonaut, is no practical success. It was tested recently in the Patapaco river, Baltimore, and accomplished everything its inventor claimed for it. A New York Herald correspondent was one of the passengers who made the sub description of his novel experience. It will make you "feel funny" as you read it and remaxted.

"When your ears crack you're all right,"

Varied were the experiences of those who accompanied the Lake submarine boat Argonaut on her trial trip in the Patapsco

To those who had never "gone down there was something uncanny in the suggestion. Some of the visitors had a feeling ver would like to be out of it if they could, but would try to maintain composure now that they were well in for it, and one found one's self arguing with one's self that by his threat of invasion, the possibility of such a misfortune has been the nightmare of commercial England, and, accordingly, following the maxim of Wellington and Nelson, that England's navy must be her first line of defense, this arm has been improved and added to with an expenditure of money that

After two hours of this submarine cruising Mr. Lake announced that he was ready to send a diver from the vessel while it was still under water. The process of launching a diver from the boat was one of the most interesting features in connection with he run. This was witnessed by no landsmen

except the Herald correspondent Mr. Wilson, the diver, was ordered to pre-pare to make an excursion of the outside, and in due time was encased in his armor, with the exception of the helmet. In the meantime a narrow compartment at the for-ward end of the boat had been filled with compressed air and it was from this place that the diver was to make his exit. Before going into the compartment it was neces-sary to pass through an antercom and once in a heavy steel door was closed and locked as securely as is a safe at the safe deposit company. The place is absolutely sirtight. No somer was every hing secured toan Mr. Lake turned on a valve; a hissleng sout latter's submarine boat, the Argonaut, is no anicumed that the narrow space was being longer a theory—experiment has proved it a filled with air. As the pressure became more severe the effect was felt in the ears. First there was a numburss, which gave place to

an acute pain. 'If it gets too cold," said Mr. Lake, "let Even those experienced in this business have trouble with their cars. The alsaing sound continued and the pale increased, when suddenly there was a cruck and lo! the pain had gone, but the pressure on the ear drums

explained the inventor, and such proved the

OUT HE GOES! When the air in the ante-compartment was compressed so that the pressure corresponded with that in the forward chamber the heavy door which separated the two was unbolted and opened. After every one tumbled in it was closed and bolted.

"You're in for it now," said the diver.
"Wo'll all drown together, I guess." This wasn't encouraging, but as escape or retreat was now impossible the newspaper min awaited developments. It was not a pleasant position to be down under the water, crowded in the end of a "cigar boat" in a place in which one could hardly turn around, with heavy iron doors which could not be opened quickly between you and any possible hance of escape.

Mr. Lake opened a small valve at the bottom of the vessel to ascertain whether the air pressure equaled that of the water-Soon water forced its way in, indicating that more air was needed, and from an air tank the necessary pressure was obtained. Without further ado the men proceeded to unscrew a plate at the bottom, and in a, lew enoments I saw the heavy steel door aised from its place with the assistance of a pulley. It seemed impossible that the very bottom could be taken out of the boat and the advance of the water stayed. Had anything happened there would have been our dead men in that compartment in less han thirty seconds.

THROUGH THE MUD.

A gurgling sound accompanied the displacement of the cover. The water started to come in, but it didn't get more than hal. an inch on its journey. It was held in check s effectually by the air as it had been by the cover. A ladder was now passed into the opening, and the diver began to descend. His helmet was screwed on when he was half way into the hole, and then he disappeared entirely. At this point a stray fish of an inquisitive disposition put in an apsarance, but sought safety in immediate flight. Diver Wilson, to get clear of the vessel, had to get down on his hands and nees and crawl out through the mud. There was only about two and a half feet of space between his point of exit and the bottom.

Making his way along the side he crawled,

to the deck after a rather muddy walk.

The vessel at this time had but a few feet f water over her deck, and the diver re nained there until the vessel came to the urface. The armor worn by Mr. Wilson seighed twenty-five pounds. His performance appeared extremely difficult, owing to he canger which entere into such a task. To escape from the temporary prison where hose who witnessed the descent had been held it was necessary to again enter the ante-room, closing the door behind, bolting it occurrely. Mr. Lake then released a valve and the compressed air in the ante-room was allowed to eccape. A steint ke fog al-most immediately filled the place, and an he air assumed a normal state of pressure he cars began to "ring" and one felt a pe

When the compressed air was released the cor which leads into the cabin, as it may e termed, was opened, and the wanderers o the region of compressed air returne and received the congrutulations of their waiting friends. There is telephone comnurileat on between the place where the dive and any necessary instructions can be exchanged by this means. It took but a few minutes for the wessel to be brought to he surface. The water was simply pumped ut of the tanks, and, thus lightened, the raft gradually came up. The cover of the oning tower was opened by Mr. Lake an he voyagers one by one mounted the ladde nd climbed on deck, safe, after their wor lerful voyage. A large crowd greeted the

erzel upon ita retura. The test was declared to be a success by Mr. Lake and all those who made the voy PRACTICAL WORK AHEAD.

Mr. Lake has not yet decided when the ves el will make her first voyage in search o valuable wrecks. The other day she acci-lentally ran into a wreck while browsing around the bottom of the bay some twenty niles below Baltimore, but there was nothing of value on board. It is probable, however that no businesslike move will be made unti the early spring, when the vessel will likely be taken to the New Jersey coast. She will be steamed around there on the surface, mak ing, as has been stated, about five miles.
It is to the wreck of the New Era, which was lost off Asbury Park in 1854, that atten on may be first paid. She had about \$30,000 in bullion aboard, and, so far as any one knows, this money is there yet. Her loca-tion is well known to the fishermen of Asbury Park, as over her hull is a favorite spot for catching see bass. She nes in water not

over forty feet deep. "The great advantage of my boat," said Mr. Lake, "is that its occupants are independent of boots and tenders on the surface By the present system, where the divers are lowered over the side of a boat and air umped down to them from above, it is found that, in working at sea, the water is so rough that they cannot count upon over fifteen or twenty days during the entire year on which they can work. With the new bowork can be carried on day and night necessary, as the boat carries sufficient al remain at work a day at a time."



As the Sun Outshines the Moon

in the early morning of summer time, so do our fine optical goods overshadow all others in the superior quality of our superfine pebble eyeklasses and spectacles that we will fit to your eyes after testing them scientifically. Our fine opers, magnifying, field and marine glasses are from the best

PHOTOGRAPHIC SUPPLIES. 1408 Farnam St. Opp. Paxton Hotel.

OLDEST AMERICAN CITY

Mysterious City of Honduras, Cradle of Maya Civilisation. The Central American explorer, George Byron Gordon, contributes an article entitled "The Mysterlous City of Honduras" to the January Ccotury. This gives an account of the recent remarkable discoveries made at Copan. Mr. Gordon says:

Copan is the oldest of the Maya cities, but that the Copan valley itself, with the im-mediate vicinity, was the cradle of the Maya Hidden away among the mountains of Hon-duras, in a beautiful valley which, even in that little-traveled country, where remoteness in a Caracteristic attribute of places, is unusually recluded, Copsu is one of the great-J. A. Perkins of Antiquity, U., was for thirty years needlessly tortured by physi-cians for the cure of eczema. He was quickly cured by using DeWitt's Witch Hazel est mysteries of the ages. After the publica-tion (in 1840) of Stephens' account of his visit to the rules, which made them known for the first time to the world, the interest awakened by his graphic description, and the drawings that accompanied it from the skillful pencil of Catherwood, relayed; end un til within the last decade writers on the sub in within the last decade writers on the subject of American archaeology were dependent entirely for information coccerning Copan upon the writings of Stephons, which were regarded by many with skepticiam and mistrust. Not only do one recent explorations confirm the account given by Stephons as regards the magnitude and importance of the rules, but the collection of relics now in the Peabody museum is sufficient to convince the most skeptical that here are the remains of a city, unknown to history, as remarkable and as worthy of our careful consideration as any of the sucient centers of civilization in the old world. Whatever the origin of its people, this old city is distinctly improvement. The gloomy forest, the abode of monment. The gloomy forest, the abode of mon keys and jaguara, which clathed the valley at the time of Stephens' visit, was in great part desiroyed about thirty years ago by a colony from Guatemala, who came to plant in the fertile soil of the villey the tobacco for which, much more than for the ruins, that valley is famous throughout Central America today. They left the trees that grew upon the higher structures, forming a pac-turesque grove, a remnant of which still remains—a few cedars and ceitas of gigantic proportions, clustered about the ruins of the temples, shrouding them in a somber shade and sending their huge roots into the crevices and unexplored chambers and walts and galleries of the vast edifices. The area comprised within the limits of

the old city consists of a level plain seven or eight miles long and two miles wide at he greatest. This plain is covered with the remains of stone houses, doubtless the habita-tions of the wealthy. The streets, squares, end courtyards were paved with stone, or with white cement made from lime and powdered rock, and the drainage was as lished by means of covered canals and under ground sewers built of stone and cement On the slopes of the mountains, too, are found numerous ruins; and even on the highest peaks fallen columns and ruiced structures may be seen.

On the right bank of the Copan river, in the midst of the city, stands the principal group of structures—the temples, palacer, and culldings of a public character. These form part of what his been called, for want of a better name, the Main structure—a vast. irregular pile rising from the plain in steps and terraces of masonry, and terminating in several great pyramidal elevation, each topped by the remains of a temple which efore our excavations were begun, looked ike a huge pile of fragments bound together by the roots of trees, while the slopes of the yramids, and the terraces and pavements clow, are strewn with the ruins of these superb edifices. This huge structure, unlike the great pyramids of Egypt and other ancleat works of a similar character, is not the embodiment of a definite idea, built in accordance with a preconceived plan and for . specific purpose, but is rather the complex result of a long process of development, corresponding to the growth of culture, and keeping pice with the expanding tastes of the people or the demands of their nations Its sides face the four card cal points; its greatest length from north to eauth about 800 feet, and from east to west it measured originally nearly as much, but a part of the eastern side has been carried away by the swift current of the river which flows directly against it. The interior of the structure is thus exposed in the form of a cliff 120 feet high, precenting a complicated system of buried walls and floors down to the water's edge—doubtless the remains of older buildings, occupied for a time, and abandoned to serve as foundations for more elaborate structures. Excavations have also brought to light, beneath the foundations of buildings now occupying the surface, not only the filled chambers and broken walls of older structures, but sculptured monument as well. The theory of development, though it cannot be set aside, seems in idequate to explain this curious circumsta ce, and yet here to just enough difference between these art relics and those of later date to indicate

MAGICALLY EFFECTIVE TREATMENT TO ALL FOR WEAK MEN MEN

OF ALL AGES NO MONEY IN ADVANCE. Wonderful appliance and scientific remedles sent on trial to any reliable man. A world-wide reputation back of this offer. Every obstacle to happy married life removed. Full strength, development and tone given to every portion of the body. Failure impersible; age no barrier.

No C. O. D. scheme.

ERIE MEDICAL CO., 61 PIAGARA, ST.

Since 1890 the Missouri experiment station has been making experiments with sugar beets with a view to ascertaining the per-cent of sugar contained in them. Today the authorities gave out the result of their experiments, which demonstrate that it would not be profitable for the Missouri

Missouri Beets Not Rich Enough.

ST. LOUIS, Dec. 29.—A special to the Post-Dispatch from Columbia, Mo., says:

termined. If, as I am inclined to believe, we shall find, away down to the lower levels, the

rude beginnings from which the culture of the later period developed, we shall have

pretty conclusive evidence not only that

Saive, the famous healing salve for piles and

Stockholders Protect Their Interests.

Herring-Hall-Marvin Safe company, which

NEW YORK, Dec. 29,-At a meeting

day of the preferred stockholders of

civilization.

skin diseases.

farmer to raise the beets for sugar pur poses, if he intends to no to the expens of building factories for manufacturing the a change in style and treatment. Whether or not this change continues in regular sequence lower down has not yet been de-

stigar, Hotel Man Charged with Arson. SPRINGFIELD, Mass., Dec. 29.-General R. H. Hodgdon, proprietor of the Tremon hotel at New Haven, Conn., was arrested here last night on a warrant charging him with being accessory to aron, committee by Frederick Cook in attempting to set first to the Tremont hotel in New Haven, Christ mas morning, Cook is said to have made a confession, stating that Hodgdon has paid him \$50 to set the hotel on fire, Mr Hodgdon protested his entire lanocence are says that Cook's story is a lle.

A0000000000000000 What do the Children Drink?

Don't give them tea or coffee. Have you tried the new food drink called GRAIN-O? It is delicious and nourishing and takes the place of coffee.

The more Grain-O you give the children the more health you distribute through their systems. Grain. O is made of pure grains, and when properly prepared tastes like the choice grades of coffee but costs about † as much. All grocers sell

it. 15c. and 25c.

Try Grain=0!

60000000000000000

AN OPEN LETTER To MOTHERS.

WE ARE ASSERTING IN THE COURTS OUR RIGHT TO THE EXCLUSIVE USE OF THE WORD "CASTORIA," AND "PITCHER'S CASTORIA," AS OUR TRADE MARK.

I, DR. SAMUEL PITCHER, of Hyannis, Massachusetts, was the originator of "PITCHER'S CASTORIA," the same that has borne and does now bear the faq-simile signature of hat H. Hitchirs wrapper. This is the original "PITCHER'S CASTORIA" which has been used in the homes of the mothers of America for over thirty years. LOOK CAREFULLY at the wrapper and see that it is the kind you have always bought, and has the signature of hatt flitchers wranper. No one has authority from me to use my name except The Centaur Company of which Chas. H. Fletcher is President.

Obenul Pitcher on. D. March 8, 1897.

DO YOU KNOW THAT THERE IS SCIENCE IN NEATNESS? BE WISE AND USE

SAPOLIO

ARE YOU A MAN?

IN FAEKA SENSE OF THE MOKD !

Are You Bearing a Secret Burden Because of Sexual Weakness. IF YOU ARE, THEN ACCEPT THIS

Honest Offer to Suffering Men

A COURSE OF MEDICINE SENT ABSOLUTELY FREE BY MAIL

Every man suffering from the effects of youthful folly or later excesses restored to PERPROT.

IFFALTH AND VICOR. Premature Decline, Lost Manhood, Spormaterrhosa, Emissions, and all linescapes and W. Discases and Weaknesses of Man, from whatever cause, permanently and privately cared.

Send the famous PHYSICIANS' INSTITUTE, of Chlengo, a description of your trouble, with a cents for postage and packing, and our eminent physicians will prepare for you course of medicine of such strength as your case may require. We send it FHE to introduce our remarkable method of treatment for Loss Manhood. No Quacker: or C. O. D. Fraud. We have thousands of thankful letters that praise our honorable, liberal business methods, as well as our remarkable quick cures. We have cured cases that have badled others. Failure impossible by our method.

IT COSTS YOU NOTHING TO TRY IT!

Thousands of wenk men who have become discouraged after trying all other treatments, have been stored to Health and Perfect Manhood within a very short time after placing themselves in our hands. occastination is dangerous. Do not neglect your case. Write us today in strict confidence. PHYSICIANS' INSTITUTE, 1945 Masonic Temple, CHIGAGO, ILL.

WONDERFUL RESULTS.

LINDEN, Marengo Co., Ala., Sept. 8th, 1897. I must tell you of the wonderful results

I obtained from taking Wine of Cardui. I was in very bad health for ten years, and during all that time never found any medicine that did me as much good as Wine of Cardui. I have taken less than two bottles, but it has restored me to good health. I have gained in weight, and my friends say my skin is as fair as when I was a girl. The terrible faint feeling is all gone. I recommend Wine of Cardui to suffering women. MRS. BETTIE JONES.



Wine of Cardui

Every suffering woman who reads Mrs. Jones' statement can obtain the same results by taking Wine of Cardui. You may have tried other medicines, or perhaps physicians in whom you had every confidence and received little or no benefit. But if you have any of those common complaints familiarly known as female diseases you can get relief. Wine of Cardui cures thousands of the worst cases of female troubles every month. Why should you go on suffering when other women are obtaining relief? Wine of Cardui is enthusiastically endorsed by prominent physicians, leading druggists and the best women from every section of the country. It is a simple

vegetable wine provided by nature for the relief of women. They take it in the privacy of their own homes. It is sold by all

For advice in cases requiring special directions, address, giving symptoms, Ladtes' Advisory Department. The Chattanooga Medicine Co. Chattanooga, Tenn.

LADIES' ADVISORY DEPARTMENT.

dealers in medicine everywhere. \$1.00 PER BOTTLE.



further attack was made until nightfall again, though in consequence of the difficulty of distinguishing friends from foes several false larms were made in the course of the day. Operations were continued during that eight and the succeeding two days and nights, with general result that the guns were manters

Toward the end of the week, during which the operations lasted, a trial was made of the Brennan torpedo, which is the exclusive property of the British government and a most valuable addition to coast defense. The continued success of its trials has convinced every one who has seen it in operation of the value of the success of the stream of the continued success of the success of the stream of the continued success of the continued success of its trials has convinced every one who has seen it in operation of the value of the weapon in harbors and narrow waterways in time of war. The secret of its mechanism is most jealousy guarded; even the officers who manipulate it know very little of the principle on which the torpedo's action depends, and are bound not to reveal anything they do discover. The popular theory is that the torpedo works on the principle of a real of thread, which rolls away.

Costs more worth more because pure sything they do discover. The copular lookout for the gang.

to the helmsman from the conning tower!

"Hard-a-port!" "Ready!" "Ease up, there!"

om a person who pulls the loose end of the Wright's pure eld-fashioned buckwheat flour.

RUNNING THE GAUNTLET OF THE THAMES FORTS

The broken English charms, yet ouzzles, of the Patapsco. Willard. Where has he heard that voice be-There are four very strong forts which | fore?

amand the Thames river close to London. They are called respectively Coalhouse fort Coalhouse battery and the forts of Cliffe and Shornemead. Like the harbor defenses. of New York, these forts are provided with a

number of intricate appliances which are escential for the protection of the river approach to Woolwich and London. The anher safe at home, telling her that I had to hid ing now all of the deck from view, an sit up with a dying friend." had to hid inch by inch exercing up to those little win nual maneuvers are held mainly with the obof testing the working of these appliances, as, though each fort is occupied by a special detachment of trained gunners, whose particular duty is the cleaning and

dard's imper'al. Horrors! It gives way shut out, and there was nothing about conscious a smooth chin.

"Down went McGinty!" exclaimed some and discloses a smooth chin. "My husband!" she cries.

and range finders, can only be practically in-spected by their employment under service conditions, so that mistakes can be rectified This year two companies of garrison artillery were told off to man the Catteries, that is, a force of about 400 men. The ac-

commodation for troops is none of the best, and some difficulty is attached to obtaining the necessary supplies. But soldiers mak-light of these things, and everybody some makes himself at home, for the time being Old-Time Cultfornin Shoemaker Asks of the paddle wheels. The crew worked as first couple of days are spent in gun

Judge Low was upon his bench in the police court yesterday afternoon, says the San Francisco Examiner, when a little, old-looking man entered. The little, old-looking man entered. The little, old-looking man dat a full and tangled grayish-brown beard, and though be was attired like an ordinary vagrant there was an air about him that instantly attracted the court's attention. begins with the supposed declaration of war The program of operations this year included

Judge Low said he would ask the police why the athlete should not be charged with why the athlete should not be charged with reparately.

"Twill do no good," said the petitioner, sadly, "The police are against me. All I can walk onger than Dan O'Leary and I've often seaten Dr. Tanner at fasting. I will never seg. Eur I know how to get in jail—and I'll do it."

the imagination recoils from, until now the admiralty declares it capable of meeting any possible combination of the world's navies. Yet from time to time a still small voice has been heard putting the anxious query: "Supbeen heard putting tion, an enemy should clude our ships, and a landing in force be effected, what is going to prevent the devastation of the country, I am obliged to you."

I am obliged to you."

The bearing we country to prevent the sack of London itself?"

The bearing we country to prevent the sack of London itself?"

The bearing we country to prevent the sack of London itself?"

Bertha finds a like indefinable familiar ring. One of their number climbed the ladde Herita alone a like voice.

However, both take from the adventure un
Mayor Malster, looking interestedly in the

Mayor Malster, looking interestedly in the old amusement.
"Imagine, zen," said Bertha, "my husband, direction of the vessel. Some distance furthe off was the pavilien, with the crowd packet the pavilien, with the crowd packet. Willard laughe heartlly.
"My wife will not," he exclaims. "I left same way. Upon all sides were the waves A flash of comprehension passes over dows. Granually the water climbed unti-Bertha's features. She divines a remarkable the windows were covered, then the surface truth. With sudden resolution she seizes could tarely be seen, then the sunlight was

In her excitement she forgets to assume one, and the others smiled. They didn't fee exactly like smiling, though. An idea of their For a moment they are nonolussed, then, ungovernable, sonorous, resounds their hearty laughter. Thinking to mutually deceive each other, they have indeed shown only the stricters of the stricte other, they have indeed shown only the following the submerging lasted. The electric lights were cheery and the water was running pest the cort holes just as it is seen WAS UNACQUAINTED WITH FRIENDS. to run past the port holes of a comfortable steamer when one is on the lower deck back

ROLLING ALONG THE BOTTOM

Captain Lake, having got his bearings, the vescel was well under way, going down the river in the direction of Fort McHenry. The wheels were on the bottom, but were being pushed through the mire without revolving

the vessel is much larger under the water than it appears from above, every inch of space is utilized and the "do nothings"

space is utilized and the "do nothings" were in rather cramped quarters.

The Argonaut cruised in every direction, plowing its way here, there and everywhere. It took a crip directly across the channel, and, to the wonderment of all, slid down one side of the muddy bank and up the other with no treather whetever. other with no trouble whatsoever. As it arose on the south side its conning tower came above the surface and a ray of light came through the glasses, indicating that it was getting in shallow water. During the cruise from time to time Mr. Lake was able to get a sight above the sur-

face and thus direct the course of the ves-sel, which was steered just as though it DIVER PREPARES FOR WORK. When there was a chance to get a peep above the surface Mr. Lake would sing out

manufacturers in Europe or America.