UNDER THE SEA.

A DESCRIPTION OF THE WONDERFUL STEAMER MINIA.

One of the marine novelties of the world that on rare occasions comes into this port is now lying at a dock in Erie basin. The novelty is the steam-ship Minia, Captain Samuel Trott, a vessel built and used for making re-pairs to the Atlantic telegraph Campany. To a spectator on the dock, the Minia would scarcely attract attention as a marine novelty. She is neither large nor small, her length belog 382:5 feet, breadth, 35:3, and depth, 25:1. She is rigged as a topsail schoener, and she measures 1986 tons gross. The one feature likely to attract, the eye from the dock is the appearance of three big grooved iron wheels, side by side, just where the bowsprit projects from ordinary ships. A look about the deck and down some of the hatches, how-ever, shows a number of peculiarities. The Minia came here a bout four weeks ago in order that she might re-pair certain injuries received about for weaks and the measure of the backs of One of the marine novelties of the

The Altha came here about four weeks ago in order that she might re-pair certain injuries received about the rudder when engazed off the banks of Newfoundhaod in repairing a break in the Brest-St. Pierre line of the Anglo-American cable. The damage to the vessel was inconsiderable, for she was able to finish the repairs to the cable before coming here, but the details of the work of picking up the ends of a broken cable and splicing in a new piece, as related by one of the officers of the ship, are interesting. To one not familiar with the work the sending of a ship to pick up the end of an inch wire rope 13,000 feet beneath the sur-face of the sea seems very much like a wild-goose chase; but, once the plans are understood, it is simple enough, though somewhat tedious at times, not only to find the ends, but to pick them up and splice them to a new piece.

times, not only to had the ends, but to pick them up and splice them to a new plece. The break which the Minia was sent to repair occurred early last summer. The officers of the company first lo-cated the distance of the break from the stations on shore on each side of the ocean. The details of the instru-ment by which this is done are not easily described, though easily under stood in principle. The machine con-sists of a series of, coils of wire, which offer a known resistance to the electric current. Enough of the coils are con-nected to make a resistance equal to the resistance offered by the entire cable when it is in working order, and thus when the machine and the cable are connected a balance is effected. But if the cable should break, the bal-ance is destroyed, because that portion of the cable between the shore station and the break, wherever it may be, will offer less resistance of the electic cur-The Orean is of the institute in charge of the paraphiling are general. It is that the hook has bold of the paraphiling are general. It is that the hook has bold of without the ald of the paraphiling are general. It is that the hook has bold of without the ald of the paraphiling are general. It is the series of core of without the ald of the paraphiling are general to the paraphiling connected is the paraphiling connected with the machine and the resistance of the paraphiling connected with the machine there is the paraphiling connected with the machine and the resistance of the paraphiling connected with the machine there is the core is the paraphiling connected with the machine there is the core is the paraphiling connected with the machine and there is the paraphiling connected with the machine and there is the paraphiling connected with the machine and there is the paraphiling connected with a male of the cable offer iss resistance of the paraphiling connected with a machine sate, the area without and there is the paraphiling connected with a machine sate, the area without the paraphiling connected with a machine sate, the area without the paraphiling connected with a machine sate, the area without and there were standing the paraphiling the area without the paraphiling the area without the sate of the area without the sate with the sate of the area without the sate of the area without the sate without the sate of the area withou

The first work done was to get a series of soundings over a patch of the sea aggregating twenty five or thirty square miles. The sounding apparatus consisted of an oblong shot of iron, weighing about thirty-two pounds, at-tached to a phataforte wire in such a way that when lowered to the bottom the shot would jab a small steel tube into the mud down there, and would then release itself from the wire and allow the sailor to draw up the tube with the mud in it. The moment the weight was ro eased the men on deck stopped paying out the wire, and thus, knowing how much wire had been run out, they were shile to tell the depth. It is an interesting fact that it took twenty-lour minutes and ten seconds for the weight of the sounding appara-tue to were when the wood ding apparathe weight of the sounding appara-to reach bottom in 2097 fathoms of for the water.

Ilaving learned the depth of water and the character of the bottom, a big, black pear-shaped buoy was put over-board and moored about where the end of the broken section ought to have been, according to the calcula-end of the broken section ought to bave been, according to the calcula-end started on day and night, when the weather will permit. This buoy is kept from floating away with the tide by se anchor that looks like an open umbrella. Secured to the anchor whith was put over was a 45-fathom west of patent rope, invented by Capsection of chain; above that 510 fath-oms of patent rope, invented by Cap-tain Trott, and consisting of part steel wire and part hemp strands. It is designed for both strength and buoy ancy. Then came 1101 fathoms of pure Mamila rope, and above that enough mixed wire and fiber rope of different birds to much the surface and scenar kluds to reach the surface and secure the buoy.

The snip was now ready to begin the

The sup was now ready to begin the search proper for the cable. She was run off at right angles to the line of the cable for a distance of five miles and a buoy got down to mark the limits of the territory to be grappled over in that direction. Buoys were afterward set elsewhere to mark the other limits of the territory. The grappling-iron was lowered over the hows, the rope attached to it passing over one of the three big grooved wheels that revolve where the bowspirit of an ordinary vessel stands. The grappling iron used is the loven-tion of Captain Trott. It looks some-thing like a four-propged anchor. It has a shaft four feet long, and four arms about a foot long that are set at right angles to each other at the bot tom of the sast. Right in each crotch formed by the arms is a little button that has a spring behind it that may be regulated in strength. The button pro-jects a third of an inch into the crotch. The angle of the arms with the shaft is so small that a rock could not get down in so far as to reach the button; but when the cable is caught by the nooks it presses down against the but-ton, and thus closes an electrical cir-cuit through a copper wire running through the graphes rope and the graphel itself, and a bell is set ringing upon deck. But the experienced men in charge of the graphing are general-iy able to tell what the hook has hold of without the ald of the bell. They judge by the strain on the rope which is indicated by a dynamometer on deck. The ordinary strain on the dynamometer is trom three to three

THE DESERET NEWS.

the outside or sheathing, are employed in this work. When the splice was completed and tested and found perfect, the cable was started, running out around drums and grouved wheels controlled by brakes and over the stern, the old end having been led fair through these sheaves before the splicing was done. Then the ship headed for sheal water and ran away at from three or four knots an hour until over a part of the banks where work could be done more easily than where the water was more than two miles deep. Uf course more than two miles deep. Of course this involved the abandonment of a good many miles of old cable, but the old cable wasn't of much importance anyhow

and two dynamos, with their engines, one to furnish electricity for a system of arc lights used when at work at night, and the other for the incandes-cent system that lights the ship below decks. The main saloon is large, and is comfortably and handsomely fitted. The captain has a cabin under the tur-tle back aft, as fine as any captain could wish for, and the other officers have roome below that are as well-fitted as those usually occupied by naval officers. The crew are all expert men, and get pay that averages a good deal better than the pay in the packet service between New York and Liver-pool. The entire crew is kept under pay the year round, the ship making her headquarters at Halifax when not engaged is repairing cables. They are as confortable a lot of salformen as one could find anywhere. A curious fact in connection with the immense amount of grapping done by this ship and the great number of sam-ples of the bottom brought up by the sounding apparatus, the only products of human ingenuity ever raised by either grapping iron or sounding ap-paratus were two anchors of modern construction, and one sample of ashes, evidently from some steamship. It is said that enough salfors have been

evidently from some steamship. It is said that enough saflors have been drowned between New York and Livsaid that enough sailors have been drowned between New York and Liv-erpool to pave the hottom of the sea from port to port, and that enough isbermen have gone down on the banks to cover them three deep; but no hu-man remains have ever been brought np either by this ship or by any other dredger. Neither have any remains of the thousands of ships that have been wrecked in that region been encoun-tered. What becomes of these wrecks and the bodies of the lost sailors is a mystery which the officers of the *Minia* have but been able to solve. Certain-ly, they say, if either remained intact on the surface of the sand at the bet-tom of the sean either the grappilog-iron or the sounding apparatus in passing and re-passing thousands of times over a part of the ocean where the wrecks are most numerous, must bring up proof of their presence there. -New York Sun.

Arriving in shoal water, the end of the new piece was attached to a buoy and put overboard. Then the old cable

the new piece was attached to a buoy and put overboard. Then the old cable was grappled and cut as before, and a new piece soliced to it. Then the ends of the two pieces were spliced together, and the job was complete. It had taken nearly two months to do it, although in the meantime two easier jobs were attended to, and a trip to Halitax for provisions was made, not to mention the encountering of the storm that damaged the rudder. The Minia has a crew of ninety, all told, including the captain, three deck officers, a navigator, three expert elec-tricians, four engineers, a purser and a surgeon. A blacksmith and a boiler-maker, with their tools, are carried. There are three big, round tauks to hold the 600 allees of cable carried, which includes sizes to it all the old cables nuder the charge of this shp. There is a cell-room where the elec-tricity for telegraphing is generated, and two dynamos, with their engines, one to furnish electricity for a sy-tem of arc lights need when at work at night, and the other for the incandes-

TWO MEN WITH VERY LONG NOSES.

TRADING ON HIS FACE.

"Received from Jeremiah Coldridge 50 cents, in consideration of having a longer mose than be has. JAMES BALLARD."

"That half-dollar," said Jerry, "has gone to Smyrna on a merchantma, and Pil tell you how it happened: I went to a botel to get my dinner, and as I sat down at the 'table I saw a man sit-ting opposite me who gazed at me with what I took to be an insolent staro. When I got a godi look at bim I forgot my hand across the table and said: "Shake neighbor. I belleve I owe you 50 cents." " "Now's that?' says he. " 'Well,' says. I, 'I have made a vow that if I ever met a man who had a longer nose than I have I would give bim a half a dollar. Providing be would do the same when he met a man whose nose diaconted bis.' At once the whole dining-room was in an up-roar of laughter, and the stranger, said: 'It's a bargain.' Pulling' out his note-book, he wrote the receipt and I gave bim a half a dollar. I afterward learned tathe was captain of a packet ship outward bound for Smyraa. Syria.'' After this Jerry had peace about his long nose, and the silver half-dollar was taken by Captain Baliard to Smyrna. There it was turned over to an Ebgish mate of an East Indiaman bound through the Suez canal to Mad-ras. The Englishman carried it for several years, and finally landed in Swn Francisco, where he was made a pland streak of luck, enlisted in the United States regular army and went up among the Blackieet indians, near For Benton, where he was made a pland streak of luck, enlisted in the United States regular army and went up among the Blackieet indians, near For Benton, where he was made a pland streak of luck, enlisted to Boston, and as he was walking one day on Washington street who should he meet but Jerry. Having heard from the Capt. Ballard how he came in pos-session of the silver piecs, he recor-nized Jerry. "Heilot" said hee, "is your name Jerry Coldridge?" " That's my name" said Jerry. Tam happy to meet you, " said the Englishman, "Allow me to return to you the had-dollar you loaned Capt. James Ballard how he came in pos-session of the silver piecs, harried it around the world with me, and never pine now, and I ha

LAZY LIFE ON SEAL ISLANDS.

A dispatch dated Nogales (A. T.), February 22, says:-Maxico troops under Captula Encisco had another hot fight with the Yaqui Indians at the vil-iage of Batacol, in the wilds of the mountains. The ladians were well fortiled in a strong position, where they resisted the attack of the soldiers with commendable bravery. The bat-the lasted from 2 o'clock in the attack on the fortilt cations, but found the Indians had left to grasmonic they are solding which in the pits. The milliary forces lost two wonded. General Guerra com-manded the force fighting the Yaquis and ordered the troops stationed at Potam to form a combination with the station of the soldiers and ordered the force fighting the Yaquis and ordered fight at the other instorm the other day, the large building at Cruz de Pieria, Sonora, their houses they are paid for their about the yage and quarters for the Twenty fifth Battalton, fell in, killing for apollers and woonding many others. stretched in lengths along the deck nu-til the end was reached. This was con-nected with a very complete calle tele-graph office, located sundships, and a second later the operators, who had been on watch for days in the British station awalting this event, saw the fashes on a mirror in their office that told them all about it. Sometimes it happens that when an end of the cable is picked up in this way and an attempt is made to com-municate with the sole to or any did sec-tion lying loose. Theat they nave to drop that over, after testing it to see how long it is, and go on toward the year is a little over 5500, while the Jeff Lowe is to be hanged in Escam-St. Paul man has, besides his 5500 cash, bia county, Florida, on Feb. 28th; and ail the fresh seal meat he can eat, and thus he will lose that extra day.

March 14

sait, fuel, fish, house medicines, phy-sician, and schooling free. Special Agent Tingle thinks the popu-lation of the islands is fast becoming of the same sort as that of the New England atates in the overplus of women. Still he has analyzed it and finds the excess of women due parily to the Greek Church and parily to the treasury department. The re-Two MEN WITH VERY LONG NOSES. There lived in Saco, Me., many years ago a man named Jerry Coldridge, who had an unearthly long nose. Tois ex-tended proboscis troubled him so muca that he made a vow that when be met a man who had a longer one he would present him with a sliver half-dollar, with the proviso that the man who got the half doliar was to do like-wise when he came across a man who the relatives of the contracting was superior in this line to himself. One day Jerry went to Portland, and when he returned he was greeted with-"Old Plowshare, what have you turned up to-day." "Well," said Jerry, quivering with exectement and joy, "I have seen a man in Portland who had a longer nose than I have." "All right," said Jerry. "If you don't believe me I will exhibit the broaced a receipt, whichread: "Deceived from Jeremiah Coldridge bo cents, in consideration of having a longer nose than he has. JAMES BALLARD."

POINTS FOR POULTRYMEN.

SIX QUESTIONS ANSWERED BY A WELL-KNOWN AUTHORITY.

KNOWN AUTHORITY. I provide line for my ponlary by feeding ground oyster shells. I raise cabbage for them. Onlons are excellent also. Make a neat box 13x14 inches, out-side measure, with water-tight, slop-ing roof. In addition I make a small run of cell laths the beight and width of the brooding box, and about twe feet in length, for use two or three days after the ben has been put on the nest. I remove her at dusk to this box, close it in front, keep her confined until near sucdown the next day, and then placethernon in front of the nox with a brace at the rear end to prevent its removal, in case she atrives hard to get out. Put food and water so that she can get either, and leave her at once. As night approaches she will return to the nest; the next morning she will be ready to receive the eggs. I do not get rid of vermin; I keep rid of them by having a stand under the perches, containing coal oil. When lice abound use whitewash and carbol-ic acid—carbonate of lime is excellent also to dust the perches and the inside of the menty. For packing eggs I prefer a neat

ic acid—carbonate of lime is excellent also to dust the perches and the inside of the hennery. For packing eggs I prefer a seat wooden box. Wrap each egg in paper, stand them on end, and pack closely with saw dust; acrew down the cover; never use a hammer and nails. A wire handle should be attached to the box for safety in handling and removal. The sale of eggs by weight, I con-sider of no consequence. The pur-chasers have the privilege of (xamin-ing before buying. If they think them too small let them get a larger number or buy elsewhere. If eygs are sold by weight many will be broken in hand-ling. It is a striking fact noticed in selling eggs, that when they are scarce and dear no fault is ever found with a fair-sized egg; but when propies are low more fault is found with the size: becanse the price is low people wast them for almost nothing. If eggs were sold by weight poultrymen would im-prove the size of them by breeding from the largest eggs. Eggs from any breed of fowls can be increased in size by that method.

The Cavalry Coming.

The fact that President Cleveland has ordered a troop of cavalry to Cheyene for the purpose of cutting down the wire fences that have been so constructed as to fence it govern-ment land, has created goite a sensa-tion in this city, especially when as now appears probable, it will be color-ed cavalry that will come. This mat-ter, however, is not one that the mass-es of the people feel any great interest in, and the interest now being felt in the matter is mstuly con-that to those who have lences upon goverament land, and to such it is quite a serious matter. The question can now be considered by such whether it would not have been better, many montas ago, to have

ONCE TOO OFTEN-Burdette: "Your father is looking very hadly"' said the teacher; has de failed in business scain?" "No, not quite," replied the smart had boy, "the creditors got onto him this time and he had to pay 81 cents on the dollar. It broke him su up, and he says the world has grown to be so all killin" meso there's no in-ducement for an honest man to 20 oft of tubicess."

THE YEARS' WAGES EARNED IN SIX WEEKS.