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# Miscellaneous.

## THE ATLANTIC CABLE.

The London Telegraph, of May 20, has the following interesting account of the preparations on board the Great Eastern for laying the ocean telegraph. cable:

### DIFFERENCES BETWEEN 1858 AND 1865.

A visit was paid to the Great Eastern a few days since by a large party of the directors' friends, and it may be said that all who understood the preparations which they saw came away with a greatly strengthened confidence in the future of the new cable. Since 1858, when the first Atlantic line was laid, the advance that has been made by the scientific world towards comprehending electrical phenomena is very great.

providing for the conductor an insula- one cell would be powerless. tion so perfect as to approach an absolute condition was inadequately appreciated. The best preliminary test for a long Atlantic telegraph was laid without to give concerning the management of the wire, but no one recommended the precautions which subsequent experience has shown to be necessary. thought of "nursing" the cable, of constantly calling on it, in the language of the Victoria gallery, to "Speak up." The old cable, however, is dead and gone. Part of it has been picked up and applied to ignoble uses, as a raceabandoned, and lies where it must rest | no fault has been discovered. till the end of time, in the "dark, unfathomed caves" of the deep sea. Let us turn to the practical present.

piece of metal separated by means of indicated by the parentage of children "Who ever saw a Hawaiian book?" the purest glass and inclosed in the born. Of these, 13,066 were of purely During the past month there has been driest atmosphere that can be obtained, American parentage; 14,540 of purely issued from the press here a book of rope is a scientific wonder.

Atlantic cable was forced through it by marriages was 59.61, which steadily in- is supposed that several thousand more means of a galvanic battery, consisting creased somewhat, till in 1857 it went could be added. The Hawaiian dialect of two hundred and forty cells. The down to 55.44; since then it has been is peculiarly interesting to the student submarine telegraph from London to gradually rising, tillin 1863 it was 62.10, of philology, on account of its isolated Amsterdam is habitually worked with and the preceding year was as high as position, being the furthest removed a battery of fifty cells, and such a battery 63.93. The war, which has drawn from the original seat of the family to is commonly used for the other sub- largely from the ranks of marriageable which it belongs in South-eastern Asia. marine lines of Europe. Signals have foreigners, accounts for this. But des- It is but one member of that wide-spread been repeatedly sent through more than | pite this, the fact remains that the ma- family of language extending from thirteen hundred miles of the cable now jority of the children born in Massa- Madagascar to the Sandwitch Islands, It has been said, by a man well quali- one cell. Galvanic currents so feeble natives in greater numbers get married, Mr. Andrews, the compiler, was formerfied to speak on the subject, that electric that they could not have been felt by but the foreigners get the children! It ly a member of the American Mission, science has passed, since that time, the hand, and might have been passed looks as if the philanthropic women of but has for some time been incapacitated from its childhood to its maturity. So harmlessly through a circuit completed Massachusetts devoted their attention by age and infirmities from active far as the phenomena connected with by the operator's tongue, can be used to to the interests of humanity in every long electric circuits were concerned, convey messages along a length of cable | way but the simple, old-fashioned, right we had in 1858 no knowledge whatever. that would very nearly stretch from way. Looking with intent eyes at The instruments in common use were London to St. Petersburg. Over needle Gariogoola Gha, they forget the inter- Olga, from Hamburg to this port, was unsuited to receiving signals through a instruments, such as those in ordinary ests of home. The philanthropic lady visited by a singular phenomenon off great length of cable; the necessity of use for land telegraphy, a current from who dropped her infant in the fire the Cape de Verde Islands. Whilst electricity, it is necessary to use Profess- practical to the theoretic. The women or Thompson's mirror galvanometer. of Massachusetts give out their babies, cable had not been devised, and the old This beautiful instrument consists of a like their washing and ironing, to the mirror about the size of a fourpenny Irish "to be done." This is literally having been subjected to any searching piece, made of microscope glass, and so labor-saving, and is very convenient, test on shore. Everybody had advice thin that it weighs only a grain. On doubtless. the back of this mirror a minute magnet is fixed, and thus supplemented it is 20 years Massachusetts will be nothing suspended by a silken fibre in the heart | but an Irish colony, with an infusion of of a coil of wire, so that any current German! There are already some hun-When the signals began to fall the passing through the coil deflects the dreds of thousands of this class of popubattery power was augmented, and magnet and the mirror along with it. lation of the second generation-born electro-magnetic induction coils, which A ray of light reflected by the mirror there, but of unmixed foreign parenrapidly helped on the destruction of the falls on a scale, distant about 18 or 20 | tage. We have no doubt these are acconductor, were put in circuit. No one inches, and reveals its faintest move- tive contributors to the population. ments. Different combinations of these humoring its feeble attempts at articulate movements represent the different letters | nual preponderance of purely foreign utterance, and of finding out what it of the alphabet, and thus the apparently births, 1,500 a year, and the influx of said rather by listening acutely than by erratic wanderings of a ray of light are emigration, and take into consideration madetoconveyintelligence. Aninstru- the geometrical rule of population ment of this kind is constantly used to familiar to the readers of Malthus! In test the cable as it is hauled on board; 20 years what Gen. Scott once called and if any fault had existed it could not the "rich Irish brogue" and the "sweet have passed without detection. Up to German accent" will displace the musihorse past his work may be put into the this time, when they are on board the cal nasality of the Yankee in its very shafts of a hansom. Part of it has been | ship and alongside 1,970 miles of cable, | stronghold.-[Albany Argus.

will, if charged with electricity, lose foreign; and 2,144 were mixed. The some 500 pages, which I doubt not that electricity after a time. In speak- preponderance of foreign over native philologists in Europe and America will ing of insulation we must therefore be births continues to increase year after prize, if they get a sight at it. It is understood to mean an approximate year! What is the cause and what the entitled; "A Dictionary of the Hawaiian condition. But the approximate in the result? That it is owing to the greater Language: To which is appended an case of the new Atlantic cable comes so prolificness of the foreign race is evi- English-Hawaiian Vocabulary and a near to perfection that this rough, tarry dent from the fact that the majority of Chronological Table of Remarkable married couples are American. In1853 Events. By Lorin Andrews." The The last dying pulsation of the old the percentage of strictly American dictionary contains 15,500 words, and it on board the Great Eastern by means of chusetts are of foreign parentage. The and from New Zealand to Formosa. while she was penning a tract upon the three hundred miles from the nearest To record such faint pulsations of elevation of the negro, sacrificed the land, the air for two days was filled with But think of the consequences! In Estimate, in addition to these, the an-

duties.-[S. F. Bulletin.

SAND AT SEA.-The Russian brig fine red dust. The decks and rigging of the vessel were filled with it. Had the Olga encountered this dust in the Red Sea, the visitation would not have seemed so strange!-[S. F. Alta.

## ON BOARD THE "GREAT EASTERN."

The Great Eastern looks just now more like an engineer's workshop than a sea going ship. The vast expanses of laid by a small vessel, which will meet her deck are covered with wooden sheds | the Great Eastern about twenty miles and piles of timber. There are smith's from the Irish coast. The cable will forges below, and between the decks then be passed on board, connected you might fancy yourself in a machinist's with that in the great tanks, and the factory. The great engines of the ship, big ship will begin her voyage. To the it is true, have lost the bright look of uninitiated this process of cutting and machinery which is in constant use; joining the cable appears very mysand the huge dull masses of iron seem | terious, but the engineers who are used asleep, or in a trance. If you descend to the work face it without hesitation. the ladders which lead to the boilers The joints do not really endanger either and furnaces, an expedition which is the insulation or the strength of the more like going down a mine than any cable, as wherever they are made the other to which it can be compared, you external and conducting wires are find yourself in the midst of darkness, spliced along a considerable lengthsolitude and cold, but in those regions sometimes not less than thirty yardsof the vessel where the cable is being and the gutta percha carefully put on in shipped and watched, there is every separate layers, firmly pressed together sign of keen, vigilant intelligence. by means of warm irons. The complete-When you understand what is being done, you see something more than this; that scientific foresight of the highest order directs every step, and that the thick, tarry rope, coarse to appearance, which lies coiled away under water in the tanks of the ship, is manufactured, scanned and tested with as much care as the nicest optical instrument in an astronomer's observatory, or the most delicate apparatus of fragile glass ever applied to the careful experiments of chemistry.

#### THE IMMERSION.

The machinery for paying out is not yet on board, but is being put together at the Greenwich works. The process of immersion will take about a fortnight. The beginning of the shore end will be ness of the joints is tested by laying it in an insulated metallic vessel containing water, and ascertaining, by means of tests applied to this vessel, whether any electricity escapes from the joint as a current is passed along the cable.

A SOLID STREAM OF FISH. - A singular sight is presented just now in the immense amount of fish passing from the Lower to the Upper Sink of the Carson. This last spring the two Sinks became to low by evaporation that the slough between them dried up entirely, and they literally failed to connect. The scoff at religion; Lower Sink soon became so strongly alkaline by evaporation that the fish in it have died by millions. Within a short time past, the river, having raised the Upper Sink, is now flowing through the slough into the lower one. The poor alkalied fish, as soon as they got a scent of the fresh water, started after it, following up the lead. An eye witness informs us that in the slough there is a solid streak of fish constantly passing up it two feet thick and four or five feet wide. They are of an inferior species of trout, such as are to be found in Washoe Lake, and the Indians, as well as the residents of the vicinity, are capturing them in all sorts of nets and contrivances. This run of fish will probably last for some time, as the Lower Sink is fifty miles in length by twenty-five in width, and contains numerous fish.-[Va. Union, June 25th. CHILDREN.-When a child is hurt, never hush it. It is inexcusable bar-PROBLEMS OF POPULATION .- The barity; it is repressing its instinct, and Twenty-second Annual Report made to for this reason if physical punishment evidently in feeble health. He remarkthe Secretary of Massachusetts, in rela- is inflicted on a child it is perfect brutaltion to births, deaths and marriages, ity. Cases are on record where children sir; and I hope you are getting along presents some curious figures. They re- have been thrown into convulsions in pretty well." late to the year 1863, during which 15,- their efforts to silence. A thousand 692 boys were born, and 14,579 girls. | times better is it to soothe by kindly |

NEW TELEGRAPH LINE.-The United States Telegraph Company have contracted for the construction of a first class two-wire line from Chicago and St. Louis to the Pacific at San Francisco. The line will be completed to Denver this fall, and finished through next year. There is hope yet of having regular and cheap telegraphing. -[Reese River Reveille.

DIARRHEA CURED BY A SIMPLE PROCESS.-Lawson, a Swede, who has been several years in the army, and. having been wounded, is now attending the work in the hospital, wishes us to say that he has cured numerous cases of diarrhea by a simple tea of blackberry roots. We can fully endorse this remedy; and as it is within easy reach of many soldiers, we earnestly advise them to try it.-[N. Y. Tribune.

FOR THE BOYS .- Nine classes of company to be avoided, viz:

1. Those who ridicule their parents or disobey their commands;

2. Those who profane the Sabbath, or

3. Those who use profane or vulgar language;

4. Those who are unfaithful, play truant, and waste their time in idleness; 5. Those who are of a quarrelsome temper and apt to get into difficulties; 6. Those addicted to lying: 7. Those of a cruel disposition, and who take pleasure in torturing or maiming animals;

#### THE SCIENTIFIC TESTS.

The excess of male deaths over female, words and acts, divert the mind by It seems impossible that there can be trembles with every wind, and what is was 1,264; which restores the balance of telling stories, by explaining pictures, any fault in the Atlantic cable when the worse, sir, the landlord, as near as I can the sexes. The effect of the war is or by providing it with new toys. We Great Eastern goes to sea. To say find out, don't intend to make any shown in the fact that, compared with have many a time in our professional nothing of the tests applied to it at the repairs.' the annual average for the five preced- experience as to sick children, found manufactory, it is tested not alone after ing years, there is a decrease of 4,423 | more benefit to be derived from a beauti--An old washerwoman persisted in it has been taken on board, but during births, or 5,737 less than in the year ful or interesting toy than from a dose its delivery into the ship. As soon as a 1860; a diminution of 405 marriages, or of physic. The greatest humanity a length is brought alongside, one end is 1,529 less than in the year 1860; and an mother can exhibit in respect to her connected with the coils already on increase of 6,552 deaths. The natural sick child is to divert it, divertit, DIVERT board, and the other end with the instruments in the testing-room. The increase to the population of the State, IT, in all pleasing ways possible, as we circuit is thus made through the whole | that is, the excess of births over deaths | ourselves, who are larger children, feel sometimes really sick, when a cheerful extent of the coil, the portion on board is, therefore, only 2,563, which is 6,738 face and much-loved friend has come in, and the portion alongside. The process | less than in the year 1862, and 10,420 and before we know it we have forgotof hauling in then commences, and the less than in the year 1861. The numgodliness." ber of marriages (10,873) was 141 less ten what was the matter with us.insulation continuously observed. The [Hall's Jour. of Health. instruments in the testing-room record | than in 1862, and 405 less than in 1860. the smallest deviation from absolutely | These are also the results of the war. DICTIONARY OF THE HAWAIIAN perfect insulation. It shall be under- The figures show a slight fractional stood that an insulation which shall be increase of longevity; and the whole LANGUAGE.-It was once said, tauntingly. "Who reads an American book?" quite perfect, as an electrician under- population is estimated at 1,250,000. stands the word, is not attainable. A But the most remarkable fact is that And it might very reasonably be asked,

8. Those who drink liquor;

9. Those who gamble.

WATER-PROOF GLUE.-Render glue perfectly soft, but not liquid, in cold water. Then dissolve it by a gentle heat in linseed oil. It dries almost immediately, and water will not affect it.-Genessee Farmer.

## Hariettes.

-Daniel Webster visited old John Adams a short time before his death. and found him reclining on a sofa, ed to Mr. Adms: "I am glad to see you,

"Ah, sir, quite the contrary. I find I am a poor tenant, occupying a house much shattered by time. It always

hanging her clothes to dry on the railings of a church, and after repeated prohibitions from the church wardens, she at last came out with the following burst of eloquence: "Lord bless ye, sir, ye wouldn't a go an' take the bread out of my mouth, would ye? 'Sides sir, parson says cleanliness comes next to -Theodore Hook once saw an exceedingly pompous man walking in a street in London, whom he immediately accosted thus: "Sir may I inquire if you are anybody in particular?" He then walked off without waiting for a reply.