TOPICS OF THE TIMES.

Self-rellance is the name we give to the egotism of the man who succeeds.

A bad memory is what keeps us from forgetting things we want to.

Building a battleship is easy as compared with the work of keeping it in

repair.

Schwab got \$23,000,000 and parests. It would be money in his pocket to lose them both.

Maybe the prophets received with stones in their own country were weather prophets.

That open door in Manchuria will out its binges presently opening and shutting so much.

The age walts, and with vast impatience, for the crowning blessing, that of a jawless mother-in-law.

The man who growls around the whole blessed time ought to be made to wear a dog tag and pay Reense, too. It is easier to save a soul than to

keep it saved, says Rev. Mr. Crandall, and most of us will agree with him. A man's choice for a nomination is never absolutely hopeless until his

friends begin to insist that he is the

logical cancidate. The speed of the Kearsurge, should be emphasized, is intended for getting after, not getting away from,

When a cannibal tells his wife he is going to ask the missionary in for dinper it means one of two things-he is being converted, or he isn't.

A London man has refused to be knighted by King Edward. Evidently he doesn't know of any rich American girl that he wants to marry.

Some people get so interested reading articles on how to be healthy and seautiful that they never have time to take the exercise advised.

The rumor that the Khan of Tartary was assassinated was an error. But a man with a khan opener was captured in the palace before he could

accomplish his design. Some scientist has advanced the the There is likely to be one trouble with this kind of a cure, and that is to always find the proper kissee.

The risks of novel writing increase. A sea-captain has sued a publishing firm for \$10,000 because the name of the ship in which a captain behaves in a cowardly fashion is the same as his own.

England complains that we have seized some of her islands. But we have not. It is merely an exchange, We gave her William Waldorf Astor, and surely he is worth more than any little bunch of islands.

An enterprising digger-up of prehis toric cities has found old King Mena's battle ax right where the cook was using it to chop up the lower cellar stair to get kindling wood for the laundry stove four thousand years ago.

A German editor is being prosecuted for less-majeste because he printed the fact that King George of Saxous e n tributed three marks to the relief of a widow with five children. Like our own Uncle Russell Sage, his Saxon stealth and blushes to have it known.

nominated for another term of four years, and will be elected, as on the occasions when h a candidate. Mexico has needed inst an autocratic ruler as President Diaz has been. He is an old man now and he is said to desire an amendment to the constitution providing for a vice president, so that if he should die in office a man would be on hand to take his place.

A preacher came at a newspaper man in this way: "You editors do not If you did you could not live; your newspaper would be a failure." The editor replied: "You are right, and the minister who will at all times and under all circumstances tell the whole truth about his members, alive or dead, will not ocpulpit more than one Sunday, and then he will find it necessary to leave town in a hurry. The press and the pulpit go hand in hand, with whitewash brushes and pleasant words magnifying little virtues into big ones. The pulpit, the pen and the gravestone are the great saint-making but rather a desired attendant. In all went away looking very thoughtful, while the editor turned to his work and told of the surpassing beauty of the bride, while in fact she was as homely as a mud fence.

The national bankruptcy law, with the amendments made by Congress at the last session, has now had time to prove its value as a working instrument, and it is the opinion of the spe cial officer of the Department of Justice, in charge of this service, that as a result of its operation there will be decrease in the number of voluntary petitions in bankruptcy in the future In fact, this prediction is supported by the returns of the Federal courts for the six mouths ending the first of last April. This decrease is likely to be emphasized from now on unless there ild be a panie or a period of unassual business depression. Of course there are reasons for this and one of them is that in accordance with one of the amendments referred to a person runy not be adjudged a bankrupt if within six years he has received a discharge upon a voluntary petition in bankruptcy. This is a marked dis- are never out-talked.

couragement to that class of men who nake bankruptcy a factor of business calculations. It compels caution and handleaps dishopesty. It will be remembered that another amend ment reversed the order of the original bill whereby creditors who had received payments on account were required to surrender these amounts b fore they were permitted to prove the balance of their claims. This frequent ly caused confusion and embarrassment. Now, when a payment on account has been honestly received with our knowledge of the debtor's insolvency, it can be retained without affecting the creditor's rights to an equal share with other creditors. The measure seems to be at least reduced to a practical working basis which will benefit legitimate business generally.

A fine old phrase, which under the new methods in aducation has fallen into disrepute, is that of learning "by heart." Half a century ago learning by heart was the chief feature of the ordinary school course. Pupils learned their English and Latin grammars by heart; they committed to memory whole pages of history and geography. long lessons in natural philosophy and endless passages from the English classics. Above all, they learned, word for word, chapters, and some times books, from the Old and New Testaments. Doubtless in those days many a pupil with a facile memory slipped through his course, or let it sip through him, and gained little in mental fiber and power. Yet, after all, there are few better possessions than something of the world's best treasure of wisfom or beauty learned by heart. One of our greatest naturalists was compelled in his boyhood to commit to memory the entire. New Testament and a large part of the old. Without that early training he would to, have gained the clear and vigorou and beautiful style by means of which he has been able to open the eyes of others to the wonders of nature. There is no such model of style as the old Book of our fathers. Lucy Luceom. enjoying to her last days the verses learned in her window-seat library in the mill; Madam Willard, finding de light in her eightleth year in the treasures committed to memory in her girlhood; Whittier, cheering sleepless nights with the rich stores of his memry-these and hundreds of others bear witness to the value of wisdom earned by heart. But it must be by heart. The treasure must be used and oved and cared for, not put into storage and forgotten. So used and loved, the words of the masters reveal deeper meanings as the years go by. They secome enriched to us by a thousand essociations-days of gladness or sorrow to which they have ministered. our lives. Not only have they given well.-San Francisco Bulletin us wisdom and counsil and but also something, at least, of the culture of a high friendship.

A "JACK THE HAIR CLIPPER."



GLADYS HENDERSON.

In Chicago a man hair-clipper to President Diaz of Mexico has been Henderson, 12, shouted, "I wanted that hair," drew a pair of shears, clipped away her tress and ran away.

> Suffer from Parasites. All animals, both great and small suffer as severely as mammals in the matter of parasites, according to Leslie's Monthly. The parasite of the os trich is a formidable looking example The most interesting of the pigeon's parasites is the one known as the lender pigeon louse, which is sup-

posed to do good service to the bird by thinning its body plumage as the weather grows hot. Fish also have parasites. The legs of one variety which tohabits the carp and pike are attached to the posterior part anatomy and constitute paddles by mouns of which the organism can change its bost and depart to pay its attention to another fish Two dark spots in the foregart of the creature represent the first pair of legs, which have been converted furn

suckers, by means of which the organism retains hold of its host. There is good reason to believe that this probability it derives its nourishme from the mucous products secreted by the skin of the fish. And when it watisfactorily arranged the follet of one fish it abandons it for another which needs its help.

Ancient Substitute for Annesthetics. A Dutch physician recently made a discovery while traveling in Java. He chanced to stop one day at Souraboya, where the Javanese maintain a large hospital for prisoners. His attention was drawn to the fact that in the treatment of such cases as necessitated an anaesthetic the native doctors did not resort to a drug, but instead they were manifestly reducing their patient to a condition of stupor by ompressing the cartold artery with their fingers. The Dutch physician was so much impressed with this primitive method of rendering the pa tient at least partially insensible to pain that he made a careful study of it. He discovered that this method of annesthesis, although unknown modern surgery, was in all probability in vogue among the ancients,

Women may be outspoken, but they



OPINIONS OF GREAT PAPERS ON IMPORTANT SUBJECTS ----

The Pace That Kills.

edy and mind are taxed beyond their powers of endur-

Reforming Funerals.

of clergymen is trying to do work on the reform line.

in the Sabbath except in cases of emergency, and that the

Not all of these recommendations will meet universal acceptance, but it would be difficult to frame a strong argu-

ment in opposition to either of them. Except in rare in

tances, "Inneral sermons and orations" are not conducted

is any good end. Many of them are positively and serious

funeral services that until preaching. Extravagance is

funerals ought to be repressed, and the rich should set the

such an occasion. Only an ancient custom can be pleaded

in support of wearing mourning. The Atlanta Constitution gives its unqualified indorsement to the entire program

of the local clergy, and closes its comments thereon with the

remark that "what the world needs is more independence of

precedent and more common sense in such matters. There

s no danger of a material, practical age declining to give

death its due in the matter of the last offices, but there is

every reason why an age that discards superfluitles sho

dijectionable. There is greater solemnity and dignity in

ouraged; that no funeral services or burials be cor

removal of hars at the grave be discouraged.

What they propose is thus summarized;

lent and fatal. It is not to be wondered at

The Rest Cure. FTER work comes rest. When they alternate as general danger, and at the same time will co-operate having been observed, it was found serfectly a man may prepare to enjoy real hap brotective systems of the States and the railroad that each carried a fly ground Emplay. It is sent to Washington to be finished ences. When they alternate perfectly a man protective systems. As soon as each section is thoroughly resembling the horner fly, with a dead and signed. But, needless to say, after ill enjoy both the work and the rest that studied, and the problem well understood, the bureau will fly, supposed to be food. As the males Nature is a just old lady. She seldom gives At the same time the bureau is prepared to co-operate with Henri Coupin suggests further study.

not more than he needs. If he elects to five a lazy life argo owners of tree lands to establish economic methods. Easily fusible alloys for casts of lets his muscles get flabby and his brain go sleepy. She never permits him to long possess a faculty or a nerve or a pendent, muscle or a sinew that he does not use.

The proper way to keep your muscles or your brains is to use 'em up and let nature provide you with a fresh supply. Nature is assisted in this work by rest. One may rest sometimes by seeking a change in labor. Labor thus becomes a recreation-re-creation

To live happily in this world it is not enough to know how to work; a man must also know how to rest. The man who knows only how to work will soon wear out. If he doesn't wear out immediately his work will suffer in some way. No man can do his best work unless he alternates it with a little play or a little rest.

A man who can't drop his work from his mind as readly as he can drop his tools from his hands had better take a few weeks off to study the rest question. His nerves are nor what they should be.

If a man wishes to keep his nerve let him avoid nerves. -Pittsburg Dispatch.

Education.



DUCATION is good for any man or woman the accept it simply as intellectual enlightenent and as a means of is ellectual pleasure But education has an economical as well as an intellectual aspect. It gives a man or wom-an appetites as well as pleasures. It creates in rush-and drop. Other men rush past them a little farthernal a need and desire for brain work and a distaste for manual labor. It arouses a wish for luxuries,

and social position that only wealth can bring. It drives do it better.--Christian Guardian. men and women into those few occupations which social prejudice leaves open to educated persons. There is no room in these professions for the crowd. Consequently, a multitude of the less competent among college graduates fall in their work and become disactistical.

It would be well if the higher education were confined to those only who through superior powers of mind seem fitted for it and give promise of being able to employ it in the intellectual professions. Every graduating class at every university contains a large percentage of students who barely pass the test, and who have no natural apit tude for intellectual occupation. These are dumped upon the market with lofty ideas and insufficient ability to back Education to them is a curse instead of a blessing. It makes them take up work at which they cannot succeed, and despise and thun work for which God made them. Even if they find out their mistake after leaving college, it is commonly too late to mend. The years in which they might have been learning a trade or a business times of trouble or danger in which are gone. They can de everything in general, but nothing ory that kissing is a cure for hysteria. They have stood as beacon lights. They in particular; and the man that succeeds to-day is the one have become part of the very fiber of who can do something in particular and de it especially



is estimated by the United States Depart ent of Agriculture, in its Bureau of Forestry, at the annual loss from forest fires is above 25,000,000. The probabilities are that the example. It is unseemly to make a display of wealth on resent year will show an exceptional loss arching nearly or quite double those figures

Last year, within two weeks, over \$12,000,000 worth of timber and property was destroyed by forest fires in the two States of Oregon and Washington alone. This year the loss from fires in the Adirondack region reached certainly \$10,000,000, and probably much more. The Bureau of Porestry has recently undertaken a thorough study of the fire problem, hoping to show that these terrible losses are not inevitable. The whole country has been divided into districts, and these have been assigned to investigating ington Post,

Who Recently Died, which she is alleged to have been the terrorizing girls. He followed Gladys original of the character of Cherokee Sal. She bore the scars of a dozen



"CALAMITY JANE"

bullets, received principally in encoun

ters with the Indians. Calamity Jane" was born in 1852 n Princeton, Mo. Her father, J. Canwent to the gold fields of Montana in 1805, and during the five nonths' trip overland his daughter, whose name was Martha, became an expert rifle shot and a daring rider. In 1870 she donned the attire of a owboy and joined the forces of Genral Custer as a scout. She was chris ened "Calamity Jane" by Captain Eagan, of the United States Army, whose life she sayed by killing an Indian at Goose Creek, S. D., in 1872. Captain Eagan informed her that she was a good person to have around in time of calamity and he christened her "Calamity Jane, the heroine of the plains.

During her career as scout "Calamity Jane" took part in many engagein a number of thrilling adventures. She fought in the campaign against

FAMOUS WESTERN CHARACTER. Hills, where the Sloux were threaten-"Calamity Jane," Noted Woman Scott, Miles and Terry in the Big Horn coun-Who Recently Died.

"Calamity Jane" is dead. She was formed the perilous feat of carrying border character whose exploits dispatches through a bostile country.

red in Deadwood.

WHY THEY GROW OLD.

are those whose interests are the nargrown older later than woman is that a better snake he has had a more free and active. A pet animal and bird store is role to play. One of the reasons that the scene of peculiar accidents. sense of responsibility, but of the abil- empty. ity of our women to remain young longer than is possible in some older ional losters, our foreign visitor finds Insters" is a long time. It can hardly t does not seem exaggerated. This extension of woman's youth is obtained partly by exercise and diet, but far more by widened opportunity, by work, by abundance of life. The way to live long is to live much, and one ly. of the wisest things young America ments with the indians and figured of opportunity and of lasting youth to has done is to throw open the doors womankind .- Collier's Weekly

DOCTORISE A PYTHON.

The Big Snake

wandered from place to place in the lived. This the deal-r set about doc-She was married to Clinton toring, admin stering a large applica-Burk at El Paso in 1884 and they had tion of Baim of Peru, an old r medy look at a \$5 greenback you will see one daughter. Her husband died in used a great deal by army and may; 1886. "Calamity Jane's" death occur. sungerns and animal dealers for healing purposes. The python was not, however, in a humor for being operated upon and tried to didge and crawi away from the proprietor, who finally caught him, and then the trouble be-Interests Are Ton Narrow-Need for Sway from the propeleter, who finally caught him, and then the trouble be Women who grow old most quickly gan. The muscular and constrictive figure 5. To make a vignette it is first powers of these snakes is surprising, rowest. Those who stay young longes: and the denier had to call several oth are those whose minds and spirits are for his assistance before he could fed by action and by changing impressions. Those who are youngest at 30 ing the fine the dealer was cutting are the most intelligent. Climate helps in the temperate zone, but that climate fieth from about the wound and putdoes little, without customs, is shown in the face of the blighted American although he tried hard to get his colls eman who at 25 looks older than her around those who were "a-doctorin" av free and enlightened compatriot at to him." Since the application of balm One of the reasons that man has the wound has healed, and he is now

A pet animal and bird store is often married women were formerly the same dealer, in addition to his bird only ones who had a chance of escap-ing early age was that when the unmarried passed a certain stage she over a lady enters with a parrot, ca-was laid upon the shelf, and the shelf mary, mocking lard or cardinal, which s a poor place for any human plant she does not care to take along to the o retain its sap and foliage. Another summer resort, she is certain to ask foreign visitor, this time an Italian. "Now, Mr. Q., please don't put my comes forward to congrutulate Americal India in cage No. 13; something will "Now, Mr. Q., please don't put my ca on the happy aspects of her youth. be sure to happen to him if you do." Late marriage, which is so often re- The dealer had no faith in the No. 13 gretted by conventional philosophers superstition, but to humor his patrons among us, seems to this Italian edu- always consented, so that for some cator the result not only of a healthy time past cage No. 13 has remained

Several days ago, however, the cages became somewhat congested, and to nations. In this secret of extending make room he placed one of his own woman's youth through some addi-canary birds in the unlocky cage. The hird appeared to be in good health at the secret of our good fortune. "Some the time, but he died before morning, since which event the dealer has b mean less than afteen years, and yet somewhat less skeptical about No. 13.

> Her Envy Was Natural "Why do you dislike that Bickerford girl so thoroughly?" "Well, it's because her hair is cur

"So is yours." "But her's curls naturally."-Cleveland Plain Dealer.



Certain spiders sail in sirships made silken threads, and now an insect that travels in balloons has been reported by two American naturalists. agents. These agents will study the local dangers as well long and composed of tiny bubbles. suggest forest-fire legislation requisite to the case in hand, also attract females by the balloons,

tain cadmium, according to a German authority, to preserve the articles from injury. Such an alloy is Wood's metal. which consists of two parts of tin, CCORDING to paragraphs that appear from ne to time in the papers, sometimes backed four of lend, seven to eight of his up by more or less elaborate statistics, heart muth, and one to two of cadmium and which fuses between 66 and 72 case and paralysis are increasingly prevadegrees CC Lipowitz's metal, which softens at 55 degrees C., and becomes Phis is a strennous age, so strennous that men perfectly figuid at 66 degrees, consists along with its rapid current at so terrific a of four parts of tin, eight parts of lead, speed and with such constant application to work that fifteen of blamuth and three of cad-

nuce. Our grandfathers, may, even our fathers, knew nothing of the stress of life as we feel it, who are engaged Dr. Dr. W. W. Keen, in his presidential in its dire struggle to-day. No wonder that often the rup- address before the Congress of Ameriture of an engarged blood vessel in the brain, or the fall can Physicians and Surgeons in Wash ure of a sorely taxed valve in the heart, suddenly purs a lagton on May 12th, remarked upon stop to it all, and the man who thought that business must "the immense advantages of a good be attended to, no matter at how great a cost of hurry hospital over the most luxurious and wear and tear, finds some day that business has to between for the care of the sick. The go on without him. There are physical sins as well as process patient in a hospital, he said. spiritual sins, and many men roin their bodies, who would is better cared for, and his case is more not dream of doing damage to their souls. The plea of carefully investigated by bacteriologic necessity is not a valid one either, for no man is compelled cut, chemical and clinical methods, to sin against either his body or his soul. And yet, as we than are the well-to-do in their own said just now, in this strenuous age it is no wonder that homes. In many instances lives that heart disease and parstysis are on the increase. Men would be lost in homes are speed to rush and drop. Other men rush past them a little farther hospitals, where the many and comand drop in their turn. It would be better to slacken the plex modern appliances for every surpace, and hold out longer. We should get more done, and gleal emergency are provided.

Experiments recently made on Eric railroad ferryboats between New York HAT there is great need of reform in funeral eremonials is undeniable. While it is true that ome of the costly excesses of earlier days, esits pliot house a telephone connected pecially the endless procession of carriages that used to block street crossings and interrupt all travel, have been abandoned, there yet remains flagpole, and with copper plates diproom for the hand of the judicious reformer to tinctly heard between boats passing at work beneficently. This, at any rate, is the opinion of the Atlanta Evangelical Ministers' Association, and that body no great range is aimed at because "That funeral sermons and orutions be discarded; that special purpose is to furnish river there he no enlogy of the dead, except in extraordinary and harbor craft with a means of cases; that there be less extravagance in the conduct of quick intercommunication for preventfunerals; that the practice of wearing mourning be dising collisions.

Not only natural productions but sometimes manufactures are largely logical information, since they will fur dependent upon peculiarities of cli- mish continuously specimens of the mate, and are consequently almost colifined to particular parts of the earth. An example in point is furnished by the manufacture of anhydrous paper. which forms the best dielectric for underground telephone cables. This pa-per was formerly made in England, depths, that of the composition of the but experience has demonstrated that to obtain the best results the paper must be manufactured in a drier atmosphere flum that of the British Accordingly this industry has forged ahead in America, and has fallen into disuse in England, although the use of anhydrous paper there is very extensive.

HOW BANK NOTES ARE MADE. idopt a more sensible, consistent funeral program.-Wash-

Details of the Intricate Process: Guard to Prevent Counterfeiting. First in consideration in making a cated, the systematic centralization of bank note is to prevent others from the observations and daily exchanges g Snake succeed, but Would making a counterfeit of it, says the of them will soon furnish an important Those who happened to be passing notes of a certain denomination or we shall see that there is a necessary a weal-known bird store the other day value must be exact duplicates of one a border character whose exploits have furnished material around which the novellet has woren Western romance. She is said to have inspired Bret Harte to write his popular story.

"The Lock of Roaring Camp," in Educated to have been the which she is sileged to have been the which she is sileged to have been the story.

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"The Lock of Roaring Camp," in Exposure brought on pneumonia and hight have with seed the unusual months. If they were engraved by another. If they were engraved has more assigned to the the case, Hand on the story on the size of the trooper the story of t In 1878 she was bonorably dis of a detached wire on the side of his ficial of one of the leading bank note charged from the army and had since eage and cut a deep gach in his fore companies, "is printed from a steel plate, in the preparation of which many persons take part. If you will picture in the center, a small portrait called a vignette, on the left, and in each of the upper corners a network of fine lines with a dark ground, one con-

taining the letter and the other the

necessary to make a large drawing on

paper with great care, and a daguerro-

type is then given to the engraver, who

es a steel point to make on it the out-

lines of the picture. The plate is inked and a print is taken of it. "While the lnk is still damp the print is laid down on a steel plate. which has been softened by heating it reduct and letting it cool slowly. It is then put in a press and an exact copy of the outlines is thus made on the steel plate. This the engraver finishes with his graver, a little tool with a three-cornered point, which clean line, leaving no rough edge. Now. this plate is used to print from. It must be made very hard, and this is lone by heating and cooling quickly. A little roller of suftened steel is the rolled over it by a powerful machine intil its surface has been forced into all the lines cut into the plate. The outlines of the vignette are thus trans ferred to the roller in raised lines, and after the roller is bardened it is used to roll over plates of softened steel. and thus makes in them sunken lines exactly like those in the place originally engraved. The center picture is engraved and transferred to a roller, like the vignette, but the network in the upper corners and also on the back of the note is made by a lathe. This achine costs \$5,000 a price that puts It beyond the reach of counterfeiters

"The plates from which notes are to be printed are of softened steel and large enough to print four notes at once. Four engravings of the note must, therefore, be made on it, and this is done by rolling the hardened After all, happiness isn't a question steel rollers containing the raised the Nez Perces Indians in 1873, accompanied General Crook to the Black | loned woman who made marble cake? love and power, but of contenument, are places until the pictures are ling desperate."

be imituted by hand. The lathe on

graves the network on softened atee.

and the figure in the middle is then er

graved by band. It is now hardened

and transferred to a roller like the off

pressed into its surface. The fine lettering around the borders of the note is transferred in the same way, but the other lettering is put on by hand. This process saves a good deal of time and it secures absolute uniformity in the four engravings on the plate. The back parts of the note are printed first, and when the ink is dry the green back is printed, to be followed by the red stamps and numbers. It is then signed and issued. For greater security one part of the note is engraved and printed at one place and another part at another place, when It is sent to Washington to be finished all this care and all these sareguards. many skillfully executed counterfells have been made and issued, some of them so good as to deceive expert Judges of muney.

IN THE DEPTHS OF THE EARTH.

Scientist Suggests Establishment of Subterranean Observatories.

A proposal to install several hundred subterraneau observatories at depths of anywhere from a few hundred yards to a mile or so may appear sufficiently startling. It ceases to be so, however, when we learn that the observers themselves are to be on the earth's sur face, it is only their instruments that it is proposed to place so far underground, and these may be lowered into borings such as are now made for ar testan wells. The principal measure ments would be of temperature; but it is claimed by M. A. Laisant, who advocates the plan, that its results would add greatly to our knowledge of the earth's crust and its phenomena, both normal and abnormal. M. Labant sets forth his plan in La Raison, as follows:

While astronomical instruments in vive considerable expense on account of their high precision, the apparatus in use for meteorological observations cost much less, and this would also be true for those that would be employed in subtervanean observation. It would be sufficient to sink at a certain number of property chosen points hales and Jersey City have shown the prac-ticability of transmitting speech by or, still better, in the way that is or, still better, in the way that is wireless telephone from one moving used in America to bore for petrolemus boat to another. Each boat carried in The depth would be more or less conafderable, according to the region and with aerial antennae carried on the the nature of the geological strata; it should be governed by data known to ped in the water. Messages were dis science, but should in general be as great as possible. It would probably a distance of 500 feet. A. F. Collins, not be chimerical to think of reaching the inventor, believes the range can a depth of several kilometers in some be extended to thousands of feet; but places, while in others a few hundred moters might suffice.

"As to the locations of the borings and their number, here, too, the geologists can furnish the necessary indications. Issep borings while in course of making will give interesting gas strata traversed, which may be studied and analyzed. When the boring has once been finished it will be easy to introduce into it measuring apparatus. and especially thermometers. gases that are encountered, the electric and magnetic state of the medittin and other elements will possess equally great interest. With the regis tering apparatus now at our disposal most of the indications mentioned will be easy to obtain when the installation has once been made without the necessity of displacing the Instru menta:

"When a large part of the surface of the globe has thus been covered with subterranean observatories properly to correlation between the variations of

JOURNEY OF LAFAYETTE.

Letters of His Son Describe Famous Trip Through United States. In Lippincott's there are some en ertaining letters written by a son of Gen. Lafayette while traveling in the

United States with his father. These

letters have never before been pub-

Halind.

We have already spent twenty days in the United States," says the son, and this is the first leisure I have had for writing you a line; even us it is, I am not sure of being able to dispatch my letter. The Marchante. whose captain is one of our friends, is to sail from New York for Haves to-day, and will take our letters, if

only we can arrive in time. "Ever since we have been here my father has been the hero, and we the spectators, of the most imposing, beau tiful and affecting sights, the most majestic population in the world welcondug a man with common accord and conducting him in throughout a journey of 200 lengues Women wept with joy on seeing him and children risked being crushed to get near to the man whom their fathers kept pointing out to them as ana of those who had contributed the most to procuring them their happiness and independence. This is what it seen reserved for us to see. I sun knocked off my feet-excuse the expression-by the emotions of all kinds. experience. I won't enter into details; you know me, and I do not suppose that, amidst the excitement of a happy people's rejoicings and shar-ing in the extraordinary gratitude with which my father is overwhelmed. I shall forget at any time those who have a claim on all the sentiments which my heart is capable of feeling. God grant that I may always onjoy the necessary strength to dis-charge the whole of my dutter. But duce being here I have not slept more than four or five hours each night!"

There Are Others,

Mrs. Wise (reading)-1 are by this hat the Emperor of Japan has ten men Mr. Wise-That's nothing. I guesa eenty men have carried mine. - De

trolt Free Press. "You can't blame the father of twins," said a man to-day, "for becom-