this power. If he and his friends will procure a copy of methods. Baron Charles von Reichenbach's "Physico-Physiological Researches in the Dynamics of Magnetism, Electricity, Crystallization, and Chemism," published in Partridge & cott to know that his forked stick has various names. It thriving, and an equal sharer in political power. has been called divining rod, virgula divina, baculus divinatorious, baquette divinatoire, and the wonders accomplished clearly proved by the reports: by its use have been testified to by thousands of people for forked stick in Walter Scott's novel "The Antiquary."

It is said by Mr. Prescott's believers that if he did not use such an absurdly simple contrivance as a forked stick he the United States than in Europe, and that the laborer in the would have more followers and make a greater fortune. In. United States, were he satisfied with the scanty and miserable deed, it has been proposed that he should get up a compli- fare upon which the European laborer must live, can purcated contrivance with a maze of wheels and electro-mag- chase like food for less money than it can be purchased for nets, which should have nothing, however, to do with his in Europe. method: but walking forth in boots (leather), with the stick sympathy with the age.

shall put the claims against the evidence in the following latter. table:

CLAIMS.

A forked stick in the hands of detecting earth currents.

Mr. Prescott belongs to the class called "sick sensitives."

Earth currents have a determinate direction, and under the action of thunderstorms will always take the same direction.

The electric discharge seeks to unite itself with earth cur-

EVIDENCE.

No evidence has ever been of a sensitive person is a submitted to men capable of scientific instrument capable judgment on this point. The belief is supported only by invalids, and is an evidence of invalidism.

No medical school of any standing believes in the powers of the "sick sensitives" to discover occult phenomena. No master of his profession believes in such pow

Earth currents do not have a determinate direction, and the influence of a thunderstorm does not determine their direction.

This can No evidence. only be determined by electrical tests, which Mr. Prescott and his friends are incapableof making, from utter ignorance of the subject of electricity.

The above is our statement of the case, and it is only justice to Mr. Prescott and his followers to state his case in the same manner, with a few comments, which can be taken or rejected.

Four thousand test cases, more or less.

The testimony of innumerers in high schools, civil engineers, and prominent business men of high standing eyes. They have been convinced beyond all doubt.

Mr. Prescott has eminently the air of an honest man. never deluded themselves or He has been known man and deluded their neighbors. boy by his neighbors for many years.

EVIDENCE.

Tests made of twigs from three or more kinds of trees, all taken from different localities, and cut by unprejudiced observers.

ment on any subject, even on one to which he has paid no engineers and teachers can be summoned as experts in matters of scientific evidence.

Honest looking men have

In conclusion, the use of the forked stick is recommended

life in the work of the human system." Mr. Prescott has a in discovering lodes of precious metals, and it is one of the the charm which comes from strong will tempered by rich wonderfully sensitive organization. He has the hitherto strangest facts in human history that mankind has stub- experience and a buoyancy of spirits which nothing could unknown "electric sense," and he can, to speak meta-bornly refused to discover precious metals by the use of repress. phorically, smell electricity or taste it in the air or earth. such a simple means, and have forced themselves into He is not, however, the only person who has claimed to have what may be called complicated and theoretical scientific

LABOR AT HOME AND ABROAD.

tonism, from the name of an agricultural laborer who had when they are massed together, with the evidence on which great success in its use. It is evident that agriculture is they were based, as they have been in a volume just issued about to assert itself in the cognate field of electricity and by the Department of State. Covering, as they do, all phases magnetism. An account of the forked stick can also be of the labor question in Europe, these reports furnish found in Dr. Hutton's Mathematical Recreations, which a telling picture of the condition of the working people of is a translation with additions of Montucla's improvement Europe—their continued struggle with adverse circumstances of Ozanam's Recreations. An account of the virtues of the -as compared with the condition of the working people of forked stick can also be found in Dr. Herbert Mayo's "On the United States, and show, as perhaps no single volume the Truths contained in Popular Superstitions" Letter has ever done before, the difference between labor disfran-XII. (London, 3d ed., 1851). It may interest Mr. Pres- chised, degraded, and hopeless, and labor free, honorable,

The following deductions are said by the department to be

1. That wages in the United States are double those of more than a century. If Mr. Prescott is a reader of fiction, Belgium, Denmark, France, and England, three times those of agriculture. Here it has produced a damage amounting he will also find an account of Pouster Swivel's use of the of Germany, Italy, and Spain, and four times those of the Netherlands.

3. That the French working people, with far less wages, and the machine, he should attribute the discoveries to the are happier than the working people of Great Britain, who machine. Pessimists claim that he would then be in entire receive the highest wages in Europe, on account of the steadiness and the economical habits of the former, and the Briefly let us sum up the claims of the Prescotts. We strikes, drinking habits, and consequent recklessness of the

> 4. That more misery results from strikes, drinking, socialism, and communism in England and Germany than from all other causes combined, hard times included.

DRAGON FLIES.

"Dragon flies," "mosquito hawks," "devil's darning needles "-these are some of the common names for certain well known neuropterous insects of the family Libellulida. They are commonly seen skimming in swift flight over the surfaces of ponds and other bodies of still water. The head and thorax are greatly enlarged—the eyes entirely covering the sides of the former—and the hind body is very long and slender, terminating in the male with a pair of clasps for seizing the female. The two pairs of wings are nearly equal in size, transparent, and finely netted, and in many species clouded with broad bands of brown, blue, or crimson. The flies attach their eggs to the submerged leaves of aquatic plants or drop them carelessly upon the surface of the water.

The larvæ are aquatic, living at the bottom of the pool or stream they inhabit, and breathing by means of trachea situated in the tail. They are further characterized by what is known as a "mask," which is an elbowed extension of the the Vega very doubtful. labium or under lip, and is armed at the extremity with two sharp hooks for seizing and holding the prey. When not in use this apparatus is folded up over the lower part of the face, but to grasp a victim may be suddenly thrust forward, These dragon fly larvæ feed upon young mosquitoes or "wrigglers" and other aquatic insects, particularly the young of May flies (Ephemerida. They are active and pre dacious in the pupa as well as in the larva and perfect states. When about to change into a fly the pupa leaves the water and crawls upon some plant or other object above the surface of the water. After clinging there a short time a rent appears on the top of the thorax, through which the fly emerges.—Prof. C. V. Riley.

Louis Favre.

The news of the death of Mr. Louis Favre, the contractor Respectability has always of the Great Tunnel of the St. Gothard, spread through the able people, including teach- had great weight in deciding city of Geneva on Saturday, July 19, calling forth, says the plied to nails. "Fourpenny" means four pounds to the upon scientific matters. It is Swiss Times, universal expression of sympathy and regret. thousand nails, or "sixpenny" means six pounds to the reasonable to suppose that if Louis Favre was a man of more than ordinary merit. He thousand, and so on. It is an old English term, and meant a bank president or cashier commenced life as a day laborer and won his way up to the at first "ten pound" nails (the thousand being understood), and respectability. They maintains his good standing front rank by sheer force of will and honest industry. This but the old English clipped it to "tenpun," and from that have seen with their own in the community, his judg- name will be handed down to posterity in connection with it degenerated until "penny" was substituted for "pounds." the great enterprise of his life, and his descendants may speak of him with more pride as Favre du Gothard than if attention, is of value. Civil he had been born toone of the thousand titles to a de or a von. At the time of his death he had overcome the great obstacles to the success of his gigantic undertaking, and it is no secret that these obstacles came rather from men than from nature. He falls, as fell Sommelier of the Mont Cenis, after years of persistent and weary warfare at the moment the calm enjoyment of a world-wide reputation which all men love so well.

to mining speculators and prospectors. Thousands of re-igreat natural workshop, the bowels of the St. Gothard, he full time,

tricity seems to be the factor of the mysterious principle of spectable persons in the past have testified to its efficiency leaves a remembrance of a lion hearted man, endowed with all

THE AMERICAN ONION-SMUT IN FRANCE.

According to M. Max. Cornu, in a note recently presented to the French Academy, the onions are being attacked in the vicinity of Paris by a fungus which fills the interior of The reports of American Consuls in Europe, with respect the bulb-scales and the base of the leaves with a black pow-Brittain's Spiritual Library, it will be found that Mr. Prescott to the conditions of trade in their several districts, have in der. A longitudinal section of the bulbs attacked (which belongs to the class called sick sensitives; in other words, to many instances been laid before the readers of this paper. It belong to the early variety of the white onion and the onion a class of persons whose systems are supposed to be pecu will be no news to them, accordingly, to be told that the of Nancy) shows that the black dust occupies the entire liarly sensitive from disease to general cosmical phenome- average condition of industrial communities abroad is far substance of the scales or of the leaves. The presence of the na. In the same book will also be found a long account below that which has obtained here, even in the worst of parasite, in addition to the decay which it produces, greatly of the use of a forked stick, which use is there called B16. times. The effect of these reports is naturally intensified modifies and alters the normally white appearance of the onions. The black dust, examined with the microscope, is seen to be composed solely of an enormous quantity of spores; and these spores are characteristic of a genus of ustilagineæ, which was first called polycystis by Leveillé, and afterwards urocystis by Robenhorst.

The particular species under consideration is new, not only to France, but to Europe, and is not mentioned in the works of Tulasne. Dr. Farlow, of Harvard College, in his report on the diseases of onions, first called attention to it, and described it as new under the name of urocystis cepulæ. It is only in recent years that the fungus has made its appearance in America, its ravages for a dozen years past having been confined to the States of Connecticut and Massachusetts, where the culture of onions forms an important branch to many thousands of dollars a year. At the date of Dr. Farlow's report the disease was as yet unknown in New 2. That the prices of the necessaries of life are lower in York. Dr. Farlow thinks that the fungus has come from some of our wild species of onions. Mixing the seeds with lime or special treatments of the soil have no effect, and it appears that it is necessary to wait four years before commencing onion culture in the same soil again. "It is not the first time," says M. Cornu, "that a new infection has come to us from America. Without citing the phylloxera and dorysphora, insects equally to be feared, I may mention the oidium of the vine, and puccinia malvacearum, the latter of which I first noticed the presence of in Europe."

We are willing to father the potato-bug, the phylloxera, and, perhaps, the onion-smut, since it was first detected here: but the so-called "oidium" of the vine occurs here, not on native vines, but on those of European species raised in hothouses. As for the mallows-brand (puccinia malvacearum), no American mycologist has as yet reported its presence among us; we have seen specimens from Africa, however.

NORDENSKJOLD'S EXPEDITION.

The fact was announced not long since that Professor Nordenskjold's expedition had survived the winter, ice bound near East Cape, Siberia, and that the explorer hoped soon to be able to proceed to Behring Strait, about 400 geographical miles from the Vega's winter quarters. Dispatches from Stockholm and Berlin, August 3 and 4, state that the Vega had got clear of ice and passed the strait; but no information is given of the route through which the alleged intelligence came. On the other hand, the Alaska Fur Company at San Francisco strongly doubt the truth of the report. Their advices from the neighborhood of Behring Strait were to the effect that the season had been very late on the Asiatic side, and that strong east winds had prevailed, piling up the ice so as to make the possible passage of

Activity in the Iron Trade.

Though it is now midsummer, usually a dull season in the iron trade, the demand for iron is great and prices are tending upward. The intelligent secretary of the Iron and Steel Association of the United States predicts that the product this year will be the largest the country has known. He also believes that the activity which prevails to-day in all branches of the iron and steel trade will continue for at least a year to come. Nearly all the favorably situated rolling mills are in operation, and numbers of these mills, as well as furnaces and steel works, have orders ahead for several months. The truth is the iron industry has been so long under a cloud that the actual need of iron throughout the country is enormous.

MANY persons are puzzled to understand what the terms "fourpenny," "sixpenny," and "tenpenny" mean as ap-When a thousand nails weigh less than one pound they are called tacks, brads, etc., and are reckoned by ounces.

The Paper Makers, Association.

The second annual convention of the Paper Makers' Asso ciation of America assembled at the Grand Union Hotel, Saratoga, N. Y., July 30 About forty manufacturers were present. Wellington Smith, of Lee, Mass., presided. He said that when his labors were to be crowned with honor, riches, and although prices were lower than last year the trade was in a better condition, there being an increased demand; that a year ago the trade was in the lowest condition ever known, To those who had the good fortune to meet him in his but now the mills throughout the country were running on