But from the very fact that the currents in such a region are so variable, thus constantly removing what they have but recently laid down, it will be less likely that their deposits will be preserved, and in our present geological studies we may disregard the exception, save to remember that it exists.

A PHILANTHROPIC TEMPERANCE MAN.

Our readers will find in another column an advertisement, for which the writer pays us one hundred and ten dollars. It 41 West Twenty sixth st., New York city. offers a prize of five hundred dollars for a plan to suppress the sale of intoxicating liquors and tobacco in New Jersey. This prize is offered by a man too modest to have his name published, but who has provided guarantees of his good faith, which will be found upon perusal of the advertisement in question.

However much the possibility of securing the desired result, by the offer of such a prize, may be doubted, the man who offers it has given practical proof of his earnestness in the cause of temperance.

The field chosen for the exercise of inventive genius is a peculiarly difficult one. If our memory serves us, there is a town in New Jersey known as Hoboken, which has been a favorite Sunday resort for New York guzzlers, ever since the Sunday liquor law went into operation in this State. The man who can devise a way to prevent drinking in Hoboken will prove himself a genius of no mean order, and will fully carn the prize offered.

The Lyceum of Natural History.

The New York Lyceum of Natural History celebrated its fifty-third anniversary on the 27th of February. This organization includes, on its list of members, all of the leading scientific men of the city, and its reputation, as an active publishing society, is high in this country and in Europe.

The report of the treasurer showed the society to be out of debt, with a handsome surplus, to be carried to next year's account. During the year, Volume IX. of transactions has been completed. One hundred and six learned societies, from all parts of the world, exchange transactions and proceedings with the Lyceum, so that our New York institution is rapidly accumulating a library of great value; it does not, however, speak well for the city that the society has no per manent resting-place. nor any proper receptacle for its library and collections.

It was announced that Mr. Waterhouse Hawkins would address the next meeting, on the "Rehabilitation of extinct animals," with illustrations and drawings.

NEW PLASTIC MATERIAL. A beautiful plastic substance can be prepared by mixing collodion' with phosphate of lime. The phosphatc should be pure, or the color of the compound will be unsatisfactory. On setting, the mass is found to be hard, and susceptible of a very fine polish. The material can be used extensively, applied, in modes that will suggest themselves to any intelligent artist, to high class decoration. The inventor has given it the somewhat pretentious name of artificial ivory.

TLE DRAINING .--- Draining tiles, laid without collars, can be protected at the joints by laying the tiles close together, and wrapping a newspaper, two or three times folded, round the ends. This plan is better than using straw, shavings, or ; grass, and, when the earth is packed down on the tiles, is inventors send models. But the Commissioner may at his discretion dispense perfectly secure.

NOTICE TO ADVERTISERS .- The circulation of the SCIEN-TIFIC AMERICAN having so largely increased, we are compelled to go to press hereafter one day earlier than formerly.

Advertisers must bring in their advertisements as early as Thursday to insure their publication in the next issue. Two HUNDRED tuns of silver ore per week pass through

Salt Lake City.

 Λ SHAFT is being forged at the Bridgewater Iron Works, Mass., that will weigh forty-two tuns.

THE new hammer in the Bessemer Steel works at Harrisburg, Pa., weighs 35,000 pounds.

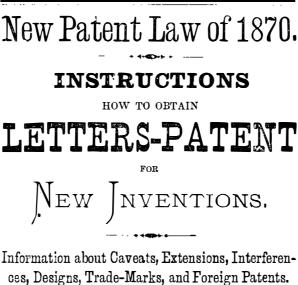
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Dyspepsia : Its Varieties, Causes, Symptoms, and Cure. By E. P. MIL-LER, M.D. Paper, 50 cts.; Muslin, \$1. Address Miller, HAYNES & Co.

Vital Force: How Wasted and How Preserved; or, Abuses of the Sexual Function, their Causes, Effects, and Means of Cure. By E. P. MILLER, M.D. Paper, 50 cts. Address MILLER, HAYNES & Co., 41 West Twenty-sixth st., New York city.



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is made into the novelty of an invention by personal examination at the Patent Office of all patented inventions bearing on the particular class. This scarch is made by examiners of long experience, for which a fee of \$5 is charged. A report is given in writing.

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REJECTED CASES.

MUNN & Co. give very special attention to the examination and prosecution of rejected cases filed by inventors and other attorneys. In such cases a fee of \$5 is required for special examination and report; and in case of probable success by further prosecution and the papers are found tolerably well pre-pared, MUNN & Co. will take up the case and endeavor to get it through for a reasonable fee to be agreed upon in advance of prosecution

CAVEATS

Are desirable if an inventor is not fully prepared to apply for a Patent. A Caveat affords protection for one year against the issue of a patent to another for the same invention. Caveat papers should be carefully prepared. The Government fee on filing a Caveat is \$10, and MUNN & Co.'s charge for preparing the necessary papers is usually from \$10 to \$12.

REISSUES.

A patent when discovered to be defective maybe reissued by the surrender of the original patent, and the filing of amended papers. This proceeding should be taken with great care.

DESIGNS, TRADE-MARKS, & COMPOSITIONS

NEW BOOKS AND PUBLICATIONS.

A DICTIONARY OF WORDS AND PHRASES USED IN COMMERCE with Explanatory and Practical Remarks. By Thomas McElrath, late Chief Appraiser of Merchandise at the Port of New York. Part I., pp. 72, 8vo. New York: N. Tibbals & Son.

The application of science to the arts, and the increase in the number or commercial articles, have been so great during the present century, that special dictionaries of the words and phrases used in each science or trade have become indispensable. Mr. McElrath proposes to supply this want for the department of commerce, with which he became very familiar while occupying the office of Chief Appraiser at the Port of New York, and previously to that, as Corresponding Secretary of the American Institute. The lesign of the book is to give the technical words and phrases used in mercantile transactions, also statistical information, tariffs, weights, measures. coins, rules of exchange, maxims of law, and descriptions of most articles known in trade. We can recommend it as a valuable work of reference. The following we select as illustrations of the character of the work: "Asbestos, a mineral of the hornblende family, fibrous, flexile, and elastic found in silky filaments which, when mixed with oil, may be woven into a are-proof cloth, and is used in various manufactures. It is of various colors. white, green, and brown. It is employed in the manufacture of iron safes, and by the natives of Greenland it is used as the wickfor lamps. It is found on the eastern side of the Alleghanies and in other parts of the United States, but it is said that nowhere is it so abundant or of so good a quality for weaving as that which is found at Staten Island, within a few miles of the city of New York. The island of Corsica is noted for the excellent quality and abundance of this mineral. It is sometimes called amianthus, and also mountain flax." . . "Bath brick, a polishing brick made of a peculiar kind of clay, a calcareous substance deposited from the river or estuary at and near Bridgewater in England. The water is conveyed into vats or pits at the high spring tides, and is left there until the clay deposits itself at the bottom of the vats, when the water is drawn off at low tide. It is then manufactured into bricks, dried, and burnt; they are of the form, and nearly he size of common building brick, and are largely imported into the United States. and are used mostly for cleaning table-knives.'

MYSTERY OF EDWIN DROOD. By Charles Dickens. Price, 25 cents.

MAD MONKTON. By Wilkie Collins. Price, 50 cents.

Messrs, T. B. Peterson & Bros., of Philadelphia, have just issued the above works for general circulation through the mails.

THE PHOTOGRAPHIC WORLD.

This is a new monthly magazine, somewhat similar in character to the Philadelphia *Photographer*, and is issued by the same publishers, Messrs. Senerman & Wilson, Philadelphia, Pa. The Photographic World is edited by Edward L. Wilson, an able writer and practical photographer. The new magazine contains a large amount of valuable information relating to the economy and practice of the art to which it is devoted, and will doubtless attain a wide and permanent circulation.

SCRIBNER'S MONTHLY MAGAZINE.

The March number of this new and popular magazine is out, and, as usua isfull of original and interesting matter. Some of the best writers in the country contribute to this monthly. J. G. Holland, the popular author, is its editor. Scribner & Co., publishers, 654 Broadway, New York.

WE are in receipt of Nos. 1 and 2, Vol. II., of the American Journal of Syphilography and Dermatology. Edited by M. H. Henry, M. D., Surgeon to theN ew York Dispensatory Department of Venereal and Skin Diseases, and published by F. W. Christern, No. 77 University Place, New York city. 1t is an ably conducted quarterly journal, devoted to the dissemination of pro-fessional knowledge upon two classes of diseases, intimately connected, and unfortunately, far too prevalent. To the profession, this quarterly must possess peculiar interest.

THE SEED CATALOGUE of B. K. Bliss & Sons, for 1871, is a valuable work, of 138 large pages. In addition to full information respecting cultivation, with the names, prices, and descriptions of some two thousand species, it also contains over two hundred excellent engravings of flowers, new varieties of vegetables, etc. Some colored plates are also given. Price 25 cents. See advertisement in another column.

Queries.

[We present herewith a series of inquiries embracing a variety of topics of greater or less general interest. The questions are simple, it is true, but we prefer to elicit practical answers from our readers, and hope to be able to make this column of inquiries and answers a popular and useful feature of the paper.]

1.-COATING FOR BOAT BOTTOMS.-What is the best material for coating the bottoms of small pleasure boats, used partly in fresh and partly in salt water? The coating is desired to protect the bottom from fouling, and to preserve the wood.-A. A. R.

2.—CANDLE WICKS.—Is there any preparation which will prevent candle wicks from smoking and smelling badly, when the flame is extinguished ?-E. D. F.

-IVORY KEYS.-I have attempted to glue the ivory on to a melodeon key, from which the ivory veneer had loosened. The glue shows through, changing the color of the key, and the ivory curls up. How ought I to do this work ?-J. H.

4.-GLASS STOPPERS.-How are glass stoppers ground fit the necks of bottles?-L. D.

5.-PULVERIZED SOAP.-Can hard soap be reduced to a fine granular powder? and if so, how?-M. B. C.

6.-FUSEES.-How are the fusees, used for cigar lighting, made, and what is the composition used ?-L. B.

7.-KEY MAKING.-What sort of machinery is used, to cut the wards in blank keys, in large establishments?

8.—SOLDERING FLUID.—How can I make a soldering fluid

[ADVERTISEMENT.] American Institute.-Jadres on Bandsawing Ma-chines.-Singular Decision. It is notorious that in late years the American Institute, at their bi-annual Exhibitions, award their promiums in a somewhat unaccountable, loose manner, generally rewarding new improvements and mechanical skill with second-rate premiums, and machines which are merely exhibited for adver-tisements, with first, this ve, the undersigned, have experienced to the full extend, at the 30th Echiptic and their provements and infirst premium to a second-rate machine, without any improvements; and such second premium for an entirely new and useful improvements; and such second premium for an entirely new and useful improvements; and such second premium for an entirely new and useful improvements; and such second premium for an entirely new and useful improvements; and such second premium for an entirely new and useful improvements; and such second premium for an entirely new and useful improvements; and such second premium for an entirely new and useful improvements; and such was the decision of those judges. The fallacy of this judgment is apparent to every one, atter a short explanation. Our aim has been, for several years, to construct a Bandsaw Machine, which will cut beever, twist, and square, without inclining the table. After spunder; a great deal of tims and money, we have accomplished this, and inters is the first machine or this construction in constant operation, at the late a second premium should be and every practical, and facet piece of machinery of its kind. It is so constructed that if the operator de-sires to ent bevel, he turns a wheel below the table, connected with a lever, and he removes the upper wheel to any desired bevel, and simultaneously moves the table, which is always kept level, and all this is done without stopping the machine. No wood slides, no work sise poiled, no saw is in dan-ger of being broken, and the whole change is made in less than half the time it would req

Managers of the Institute? But, no the exhibitor is entirely ignored on that question, and is at the mercy of a judge, who sometimes does not take interest enough for im-provements, but is infuenced by the biggest show, smooth take, etc. The American Institute was ortanized for the uponiiding of the manufac-turing trade, and the encouragement of inventors; butsuch a course, as the above mentioned, cannot fail to discourage the same, and discredit the Insti-tute.

pounds, and useful mixtures of all kinds.

When the invention consists of a medicine or compound, or a new article of manufacture, or a new composition, samples of the article must be furished, neatly put up. There should also be forwarded a full statement of its agredients, proportions, mode of preparation, uses, and merits.

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for soft solder that will work well on iron, brass, or copper, and that will no require the removal of grease, or the cleansing of the surfaces to be united −C. W.

9.-SPINNING TIN PLATE.-Can common tin plate (iron and tin alloy) be spun up successfully, like brass? I do not succeed, though 1 can spin up brass well enough. Can any one help me by advice in this matter ?-T. J. K.

10.-GRAFTING WAX.-Will some one give the best recipe tor grafting wax for use early and late in the grafting season ?-J. H. A.

-CEMENT FOR GLASS SYRINGES .- What is a better cement for the pewter cups of glass syringes than plaster of Paris? These cups, cemented in the ordinary way, come loose when the syringes are used, and cause great annoyance. Nearly all the syringes sold for medical use are defective in this respect.-P. E. G.

12.—CANNED OYSTERS.—What is the method of canning oysters? Will some one give me the title and publisher of a good work o food preserving ?-J. M.

13.-BLEACHING AND COLORING BROOM CORN.-I wish recipes for the above purposes.-F. B.

14 - PAINT FOR OLD WEATHER-BOARDING .- I wish a recipe for the cheapest and best paint for outside work, so as to save oil, in the first coating on old dry weather-boarding or brick-work.-W. O. D