# **Classified Advertisements**

Advertising in this column is 75 cents a line. No less than four nor more than ten lines accepted. Count seven words to the line. All orders must be accompanied by a remittance. Further information sent on

READ THIS COLUMN CAREFULLY .- You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. There is no charge for this service. In every case it is necessary to give the number of the inquiry. Where manufacturers do not respond promptly the inquiry may be repeated.

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#### PATENTS FOR SALE.

FOR SALE. -Outright or on royalty, U. S. and Canadian patent on spiral punch. A long-felt want filled for the operators of machinery. All interested in an instrument with unlimited field and great demand, write for particulars, claims, drawings, and any information desired, to Harry C. Roberts, Rowland, N. C.

Inquiry No. 8908.—For a dealer in tapes and cords for Venetian blinds.

FOR SALE or on revalty, U.S. patent No. 908 845. Lift strap for recumbent patients. Address R, Box 773, N.Y.

Inquiry No. 8918.—For manufacturers of "Wydt's Electro-Catalytic Sparking Plug."

Inquiry No. 8921.-For the manufacturers of gilt paper

#### HELP WANTED.

MECHANICAL ENGINEER wanted for charge of designing and drafting office for large engineering works. Give experience. Address Canada Foundry Company, Ltd., 212 King St. West, Toronto, Canada.

fuquiry No. 8922.—Wanted the address of Worthington Boiler Co.

YOUNG MAN, graduate of some school in mechanical engineering, for position in woodworking plant in small Tennessee town. Good opportunity for advancement. State experience, if any, and salary, Answer "Position," Box 773. New York.

Inquiry No. 8928.—For the manufacturers of a steam rotary excavator as described in the Scientific American of December 12, 1898, page 347.

#### PARTNERS WANTED.

PARTNER WANTED with small capital to promote several patents. Fa Feldra, 69 Congress St., Jersey City.

Inquiry No. 8931.—For parties who wanufacture the Western Stump Borer for boring stumps.

### LISTS OF MANUFACTURERS.

COMPLETE LISTS of manufacturers in all lines supplied at short notice at moderate rates. Small and special lists compiled to order at various prices. Estimates should be obtained in advance. Address Munn & Co., List Department, Box 773, New York.

Inquiry No. 8941.—For manufacturers of machinery for making fly screens.

A LIST OF 1.500 mwing and consulting engineers on cards. A very valuable list for circularizing, etc. Price \$15.00. Address Munn & Co., List Department, Box 73, New York.

luquiry No. 8960.—For the address of the Windsor\_Mfg. Co., manufacturers of waterproof collars and

Inquiry No. 8966.—Wanted the address of the Cohendet Motor Co.

Inquiry No. 8974.-For address of firms interested in fishing reels.

Inquiry No. \$977.-For manufacturers of machinery for manufacturing denatured alcohol.

**luquiry No. 8978.**—Wanted the address of manufacturers of dry pans or crushers to grind sand for plastering and cement works.

Inquiry No. 8980.—For the address of manufacturers of mortars and pesties that are used by druggists.

Inquiry No. 8984.—Wanted the address of the mamfacturers of Cypress wash tubs.

Inquiry No. 8986.—Wanted to buy crown and flint glasses for telescope objectives.

Iuquiry No. 8987.—Wanted, the manufacturers of he Van Winkle, Woods & Sons, and the Weber power

meters. Inquiry No. \$990. For information regarding shoes not made of leather but similar to the same and

Inquiry No >995.—Wanted to buy round and oval glass paper weights, such as are used for mounting photographs.

are as durable.

Inquiry No. 8996.—Wanted addresses of manuacturers of machinery for working orange wood mani-

Inquiry No. \$997.—Wanted the address of the nanufacturers of bread or cake boxes. Inquiry No. 8999.—For manufacturers of combined clothes and ciothes pin receptacle.

Inquiry No. 9000. Wanted, a combined appliance for holding hats, coats and umbrellas safely and securely.

Inquiry No. 9001.—Forthe address of progremanufacturers of fruit jars.

Inquiry No. 9002.—For the address of the Varley Duplex Magnet Co., or anyone making and designing special electro magnets.

Inquiry No. 9003.—For the address of parties who make "Invar" or other metals having a lew coefficient of expansion.



Kindly write queries on separate sheets when writing about other matters, such as patents, subscriptions, books, etc. This will facilitate answering your questions. Be sure and give full name and address on every

Full hints to correspondents were printed at the head of this column in the issue of March 13th or will be sent by mail on request.

(12111) C. B. says: Will you kindly inform me as to the principle of the "electrolytic detector" used in wireless telegraphy? HOT WATER CIRCULATOR.—Greatly economizes fuel. Outright or royalty. Quick circulation and regulation to any distance on any hot water heating system. electro-motive force applied to it by a shunted Address A. E. Crowhurst. Humber Bay, Ontario, Can. cell of battery, the electrodes become polarized inquiry No. 8868.—Wanted to buy nickeloid for and the current is reduced practically to zero. When oscillations are sent through the cell in this condition, they destroy the polarization of the small electrode, and the current suddenly increases, but it returns to its former small planation, with a full discussion of the subject, you may find in Fleming's "Elementary Radio-telegraphy and Radio-telephony," which we send for \$2.

(12112) T. F. Van W. says: Can you tell me if the specific gravity of the moon is known, and if so, how it compares with that into accounts of personal adventure. Unlike of the earth? A. The density of the moon is most fish stories they have a strong foundation FOR SALE.—Specialty for manufacturers. Dental floss holder, patented May. 1999. For further particulars apply direct to inventor, T. A. Tubbs, Seatrle, Wash., care H. S. Emerson Company.

10.01 that of the earth. One of the best decomposition in fact. It is a book which we can commend terminations of the density of the earth is to the general reader as well as those who are 5.527, reached by Boys in 1894. This would slaves of the rod.

10.01 that of the earth. One of the best decomposition in fact. It is a book which we can commend terminations of the density of the earth is to the general reader as well as those who are make the specific gravity of the moon to be 3.37.

(12113) C. S. says: 1. If we take two jars of equal inside diameter, and fill both with equal quantities of alcohol and leave one jar open, but close the other with a cover, with only a small opening through printed and bound, consists of a series of which the vapor can escape, will the alcohol studies of the great men and great women of evaporate in the same time from both jars, all other conditions being equal? A. The evaporation of any liquid takes place more slowly out of a bottle with a small mouth koman History, the Legend of Antony and than out of one with a large mouth. 2. Does Cleopatra, Nero, the Relation of the Conquest reflected sunlight differ in any way from di- of Gaul to the Development of Modern France, need sunlight? rect sunlight? That is, will a plant grow as Julia and Tiberius, Wine in Roman History, well if exposed to reflected as to direct sun- and Roman History and Modern Education. light, and will reflected light kill certain bac- Interesting, entertaining, picturesque, full of teria, as well and quickly as direct sunlight? pregnant ideas, this volume of Prof. Ferrero's A. Ordinarily reflected light differs in no respect from the same light before reflection, be richly rewarded for the close attention they The spectrum of moonlight is simply a fainter will give it. spectrum of sunlight. Any effect which direct light can produce will be produced by reflected light, except for the loss in brightness by reflection. 3. Does sunlight lose in inten sity if reflected by a clear mirror? A. There is no perfect reflector. Light is lost by re flecting it from any mirror whatever. A metal mirror will reflect about 6/10 of the light which strikes it perpendicularly, and a mercury mirror about 75/100. The loss is larger if the light strikes the mirror obliquely.

(12114) R. J. T. asks: On April 22nd the A-Z's, a club of six young men, held Museum of Natural History in New York to a spirited meeting at the home of one of its see evidences of the growth of this movement. members. The topic under discussion was The magnificent exhibits which are to be "Resolved that, if a tree falls in the forest found in this building have done much to and there is no animate being present, there awaken interest in birds, as has also the work is no sound." After the discussion, the judges of the Audubon societi. The widespread awarded their decision to the negative, merely nature teaching in our schools is also responon the merits of the debate, however, not on s le for the increased interest in ornithology. the merits of the question. Not being satisfied on the merits of the question, however, as for recreation or for permanent residence brought out in the material presented, the club have an inclination or desire to become prowould like to ask that you answer it in your fessional ornithologists, but they have wished Inquiry No. 8969.—Wanted machines that make paper. A. The answer to your question deto know at least the names and facts in the according decording (steam).

pends upon the definition of the word "sound" life history of the birds that they see conapplied to the argument. In most dictionaries stantly about them. To supply this demand two definitions are given: 1. A sensation pro- for popular information a large number of duced through the organs of hearing. In this works have been written, and their extensive sense if there are no human or animal brains circulation proves that they have filled a real present to receive this sensation through the want; but most of these are more or less organs of hearing, there is no sound. 2. The local in their scope, only a few treating of physical causes of such sensation: waves of the birds of the whole world, so that the time alternate compression and rarefaction passing seems ripe for a work of moderate size in a through any substance, solid, liquid, or gas-single volume which would set forth in non-eous, but especially through the atmosphere. technical language the salient facts regarding The sound waves are produced by the fall of the birds of the world. The author has atthe tree, whether or not there are organs of tempted to prepare such a work, and he has hearing present to receive them, and conse- succeeded admirably in his task. quently in this sense sound is made though trations are excellent and numerous. The unheard.

(12115) J. R. D. says: May I ask which should be in every library, your opinion re the following? What is the correct size and length of stove pipe to give a strong draft to a stove of the following MENDELISM. By R. C. Punnett. Ameridimensions? Diameter 6 feet, height to top of stove 3 feet, beyond that height a sloping dome about 4 feet, terminating in a stove pipe At present I have a 10-inch stove pine about 12 feet long. Draft below is supplied by leaving open the irregularities in the ground. The stove is intended to aid in burning out stumps. the idea being to bore and light the stump in the usual way and then place the stove over it to give a strong draft and suction, so that the roots as well as the stump would burn clean out. At present, with the stove pipe as mentioned it does not appear to make much difference nor make the bored stump burn any longer than without it. Is the stove pipe too small for such dimensions? If properly proportioned, even if not successful in burning tion of the planetary system respectively are

fire by the draft and suction, which is not the case. A. We should not say that the dimensions of your stove pipe could be usefully increased, or that combustion of the stumps would be more complete if the draft were increased. If we correctly understand your method of burning the stumps, a stage must be reached at which combustion can only be from the inside outward, especially when nearing the roots, after which the flame would have to travel against the draft, and the latter would be unlikely to help it. Such a method of destroying stumps must be slow at the best, as a block of solid wood would soon be covered with ash and consumed material, leaving no inflammable surface exposed to the

#### NEW BOOKS, ETC.

FISH STORIES. By Charles F. Holder and David Starr Jordan. New York: Henry Holt & Co., 1909. 336 pages. Price, \$1.75 net.

Prof. C. F. Holder is one of the oldest contributors to the SCIENTIFIC AMERICAN and he is well known to our readers. Prof. David Starr Jordan is president of Stanford Univervalue when the oscillations cease. This ex- sity and is a well-known ichthyologist. The authors are perhaps two of the most prominent amateur and professional students of fish in the country, and this volume tells their unusual fish exploits and their best fish stories. It is a delightful miscellany, telling about the strangest kind of fish with a strictly scientific description which melts almost imperceptibly

> TORY FROM CAESAR TO NERO. By Guglielmo Ferrero. New York: G. P. Putnam's Sons, 1909. 8vo.; 275 pages. Price, \$2.50 net.

> The present work, which is very handsomely studies of the great men and great women of ancient Rome, and critical moments and events in Roman history. Among the people and subjects treated are "Corruption" is sure to find an absorbed audience that will

> BIRDS OF THE WORLD. A Popular Account. By Frank H. Knowlton, Ph.D. With a chapter on the Anatomy of Birds by Prof. Frederick A. Lucas. The whole edited by Root Ridgeway. New York: Henry Holt & Co., 1909. Quarto; 872 pages; 16 colored plates, 236 illustrations. Price, \$7.

There has been a great popular awakening in recent years in relation to our birds. It is only necessary to pay a visit to the American colored plates are well executed. It is a book in every school library. The book is a portly one, and is handsomely bound.

can Edition with Preface by Gaylord Wilshire. New York: Wilshire Book Company, 1909.

This is the second edition of a popular work on Mendelism which has won for itself a deservedly high place in current popular scientific literature. Why Mr. Wilshire should have hurdened the book with a Socialistic Preface is more than we can understand. It is a far cry from Mendelism to Socialism.

LES PLANÉTES ET LEUR ORIGINE. By Ch. André. Paris: Gauthier-Villars. 1909. 285 pp. Price, 8 francs.

M. Andre's book is divided into three parts, in which the planets, satellites, and the formaout the roots, it should make a very fierce described. Among the striking features of the



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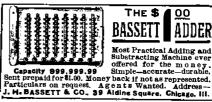
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book may be mentioned the author's arguments in favor of the roation of Mercury and Venus. ' excellent résumé of Poynting's temperature investigations, his summary of the evidence against the canals of Mars, and a fine chapter on minor planets. The division on satellites discusses the various announcements of a satellite of Venus; the Martian satellites; and the recently discovered satellites of Jupiter. The Laplace system and its inconsistencies are excellently discussed in the

CRUDE RUBBER AND COMPOUNDING INGREDI-ENTS. A Text-Book of Rubber Manufacture. By Henry C. Pearson, Editor of The India Rubber World. Second Edition. New York: The India Rubber Publishing Company, 1909.

This is the second edition of a book which appeared ten years ago and which may be regarded as a standard work on the subject in English. Since the appearance of the first edition the rubber industry has made rapid New sources of rubber have been opened up and progress has been made in reclaiming waste rubber. In this revised edition the improvements in the art have all been conscientiously noted. The many new compounding ingredients, substitutes, and processes find a place in its pages. As it stands the book is a dictionary of compounding facts, and an encyclopedia of rubber factory prac tice, intended primarily for factory use.

ATLAS UND LEHRBUCH DER HYGIENE. Mit besonderer Berücksichtigung der Städte-Hygiene. Herausgegeben von Professor Dr. W. Prausnitz, Vorstand des hygienischen Instituts der Universität Graz. München: J. F. Lehmann's Verlag, 1909.

The science of hygiene is concerned with the preservation of the health of human beings. Its study is based upon an accurate knowledge of the human organism and the effect of environment upon that organism. Hygiene is either scientific or practical. Scientific hygiene endeavors to ascertain everything that may have an effect upon health, and to determine the conditions which are most favor able for the development of mankind. tical hygiene has for its object to apply the principles which have thus been scientifically discovered, so as to reduce the dangers to human health. In order to attain this object, practical hygiene requires innumerable technical installations, which include not only the construction of a dwelling, but everything that pertains to a dwelling. Unfortunately, this ideal has not as yet been reached, because the engineer and the physician have not worked in perfect accord, and also because the land-holder is only too frequently prompted to build his structures as cheaply as possible. It is the purpose of the work before us to set forth these principles of hygiene simply and clearly and yet accurately, so that the public will acquire a broader knowledge of the development of a new and important science. The book is intended not only to help the architect who draws the plans of the house, and the builder upon whom devolves the duty of construction, but it will serve the purpose of indicating to the factory or house owner what he owes his employees or the inmates of his house. The book will also aid the client of the sanitary engineer to point out definitely just what he wants. Hitherto he has been able to talk only vaguely, because he had no concrete example to which he could point.

Unsere Honigbiene. Von Prof. K. Sajó. Stuttgart: Kosmos Gesellschaft der Naturfreunde. Price, 50 cents.

Prof. Sajó is a well-known contributor on natural and scientific topics, not only to Kosmos, but to other periodicals as well. In this little book he has given a very clear and comprehensive description of the bee as a biological species and also as a useful insect.

THE ART OF THE NETHERLAND GALLERIES. By David C. Preyer. Boston: L. C. Page & Co., 1908. 12mo.; 380 pp. Price, \$2.

This attractive volume is one of the series of the Art Galleries of Europe, of which seven have already been published prior to the present volume, which is the history of the Dutch School, illuminated and demonstrated by critical descriptions of great paintings in the many galleries. The wonderful and unique art of the Dutch School of the seventeenth centends to bring these masterpieces into closes touch with the visitor should be warmly welcomed. The present volume is a painstaking appreciation of the art of the great masters of Holland. The book is exceedingly well written, and the illustrations reproduced in senia tints are very much better than in the average work. The paper is particularly light in weight, and the book will be found a most enjoyable one for those who are fortunate enough to be able to visit the galleries in person, while to those who stay at home the book will prove of genuine interest. It is most attractively bound.

THE RESUSCITATION OF PERSONS SHOCKED BY ELECTRICITY. By Edw. Anthony Spitzka, M.D., Professor of General Anatomy, Jefferson Medical College, Philadelphia. 1909. Reprint from the Journal of the Medical Society of New Jersey.

# Pennsylvania Railroad

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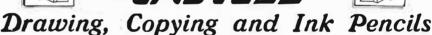
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