Classified Advertisements

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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 accom-panied by a remittance. Further information sent on equest

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. MUNN & CO. MUNN & CO.

PATENTS FOR SALE.

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

Inquirv 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. S921.-For the manufacturers of gilt paper

HELP WANTED.

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

fuquiry No. 8922.-Wanted the address of Worth-ington Boiler Co.

YOUNG MAN, graduate of some school in mechani-cal engineering, for position in woodworking plant in small Tennessee town. Good opportunity for advance-ment. 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, 1908, page 347.

PARTNERS WANTED.

PARTNER WANTED with small capital to promote several patents. f: 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 sup-plied at short notice at moderate rates. Small and special lists compiled to order at various prices. Es-timates should be obtained in advance. Address Munn & Co., List Department, Box 773, New York.

Inquiry No. 8941.-For manufacturers of ma-chiners for making fly screens.

A LIST OF 3,500 mming and consulting engineers on cards. A very valuable list for circularizics, etc. Price \$15.00. Address Munn & Co., List Department, Box 773, New York.

luquiry No. 8960.—For the address of the Wind-sor_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 inter-ested in fishing reels.

Inquiry No. 8977.-For manufacturers of ma. chinery for manufacturing denatured alcohol.

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

Inquiry No. 8980.—For the address of manufac-turers of mortars and pestles that are used by druggists.

Inquiry No. 8984.-Wanted the address of the manufacturers of Cypress wash tubs.

Inquiry No. 8986.-Wanted to buy crown and fiint glasses for telescope objectives.

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



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 sheet

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 "elec-trolytic detector" used in wireless telegraphy? HOT WATER CIRCULATOR.-Greatly economizes fuel. Outright or royalty. Quick circulation and regu. A. If an electrolytic detector has a small lation to any distance on any bot water heating system. electro-motive force applied to it by a shunted Address A. E. Crowhurst. Humber Bay, Ontario, Can. ; cell of hattery, 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. FOR SALE. FOR SALE.—Specialty for manufacturers. Dental foss holder, patented May. 1998. For further particu-lars apply direct to inventor, T. A. Tubbs, Seattle, Wash., care H. S. Emerson Company.

(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 than out of one with a large mouth. 2. Does reflected sunlight differ in any way from di-of Gaul to the Development of Modern France, rect 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 hearing present to receive them, and conse- succeeded admirably in his task. unheard.

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 near ing 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 flames

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.

tions.

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. 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" in is sure to find an absorbed audience that will

BIRDS OF THE WORLD. A Popular Ac-count. By Frank H. Knowlton, Ph.D. With a chapter on the Anat-omy of Birds by Prof. Trederick 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 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 satis- Few of those who turn to the country either fied 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. \$969.—Wanted machines that make paper. A. The answer to your question de- to know at least the names and facts in the accordion dress plaiting (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 The illusquently in this sense sound is made though trations are excellent and numerous. The colored plates are well executed. It is a book





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details for the construction of Ice Yachts, with many flustrations, are contained in SUPPLEMENT Nos. 624, 1154, 1197 and 1253. Each number gives plans of a different hoat. Price 10 cents each. For sale by Munn & Co. and by all newslealers.



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The back of the second second

The American Steel

Worker

| Inquiry No. 8990. For information regarding shoes not made of leather but similar to the same and | (12115) J. R. D. says: May I ask | which should be in every library, as well as in every school library. The book is a portly | DY L. K. MAKNHAM |
|---|--|--|---|
| are as durable. | your opinion re the following? What is the correct size and length of stove pipe to give | one, and is handsomely bound. | Size 5¼ x8 inches. 367 pages. 163 illustra- tions. Price \$2.50 postpaid |
| photographs. | a strong draft to a stove of the following dimensions? Diameter 6 feet, height to top | can Edition with Preface. by Gay- | by an acknowledged authority. The author |
| Inquiry No. 8996.—Wanted addresses of manu- facturers of machinery for working orange wood mani- | 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 pipe about | lord Wilshire. New York: Wilshire Book Company, 1909. This is the second edition of a popular work | has had twenty-five years' practical experi- ence in steel-working, during which time he has collected much of the material for this book. Care- ful instructions are given for every detail of every |
| manufacturers of bread or cake boxes. | 12 feet long. Draft below is supplied by leav- ing open the irregularities in the ground. The | on Mendelism which has won for itself a de- | tool. Among the subjects treated are, the selection of steel to meet various requirements; how to tell steel when you see it; reasons for different steels; |
| bined clothes and clothes pin receptacle. | the idea being to bore and light the stump in | tific literature. Why Mr. Wilshire should have burdened the book with a Socialistic Pre- | how to treat steel in the making of small tools, taps, reamers, drills, milling cutters; hardening and tem- |
| for holding bats, coats and umbrellas safely and | 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 | face is more than we can understand. It is a far cry from Mendelism to Socialism. | pering dies; pack-hardening; case-hardening; an- nealing; heating apparatus; mixtures and baths, the best kind, and why; and in fact everything that a steel-worker would want to know is contained in |
| manufacturers of fruit jars. | clean out. At present, with the stove pipe as mentioned it does not appear to make much | André. Paris: Gauthier-Villars. | |
| Duplex Magnet Co., or anyone making and designing special electro magnets. | difference nor make the bored stump burn any longer than without it. Is the stove pipe too small for such dimensions? If properly pro- | M. André's book is divided into three parts, | each, but when the two volumes are ordered from us at one time, we send them prepaid to any address in the world on receipt of \$4.00 . |
| Inquiry No. 9003For the address of parties who make "Invar" or other metals having a low co- | | tion of the planetary system respectively are | MUNN & COMPANY, Publishers 361 Broadway, New York |

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