

Business and Personal Wants.

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. **In every case it is necessary to give the number of the inquiry.**
MUNN & CO.

- Marine Iron Works. Chicago. Catalogue free.
- Inquiry No. 5018.**—For manufacturers of water motors.
- "U. S." Metal Polish. Indianapolis. Samples free.
- Inquiry No. 5019.**—For addresses of a parachute factory, an umbrella factory and a place to buy thin, light-weight steel tubing.
- AUTOS.—Duryea Power Co., Reading, Pa.
- Inquiry No. 5020.**—For makers of finished hand wheels about 4 and 6 inches in diameter.
- Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.
- Inquiry No. 5021.**—For a small, hand portable fire escape.
- Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.
- Inquiry No. 5022.**—For manufacturers of ice-making and refrigerating machinery.
- American inventions negotiated in Europe, Felix Hamburger, Equitable Building, Berlin, Germany.
- Inquiry No. 5023.**—For manufacturers of cast steel tubing.
- Edmonds-Metzel Mfg. Co., Chicago. Contract manufacturers of hardware specialties, dies, stampings, etc.
- Inquiry No. 5024.**—For manufacturers of rubber machinery.
- FOR SALE.—500 series and bridging telephone generators. List free. Turnquist, 442 Van Buren St., Chicago.
- Inquiry No. 5025.**—For a hand power loom which is suitable for weaving rag carpets.
- WANTED.—Manufacturers of novelties and souvenirs suitable for the St. Louis fair. Address Box 41, Port Deposit, Md.
- Inquiry No. 5026.**—For makers of coin-operating, engraving and name-plate machines.
- Automobiles built to drawings and special work done promptly. The Garvin Machine Co., 143 Varick, cor. Spring Streets, New York.
- Inquiry No. 5027.**—For the makers of a small hand-cancelling bank check machine made of flat spring steel. The two small roller-wheels perforating the paper by pressure of the fingers.
- FOR SALE.—Patent on finest spike and bolt puller in existence. No. 714, 107. For particulars write W. L. Harris, Central City, W. Va.
- Inquiry No. 5028.**—For makers of luminous paint.
- Send for new and complete catalogue of Scientific and other books for sale by Munn & Co., 361 Broadway New York. Free on application.
- Inquiry No. 5029.**—For makers of plain or figured brass, bronze or sheet metal stair corners.
- The largest manufacturer in the world of merry-go-rounds, shooting galleries and hand organs. For prices and terms write to C. W. Parker, Abilene, Kan.
- Inquiry No. 5030.**—For makers of shovel machinery, such as drop presses, dies, etc.
- We manufacture anything in metal. Patented articles, metal stamping, dies, screw mach. work, etc., Metal Novelty Works, 43 Canal Street, Chicago.
- Inquiry No. 5031.**—For makers of tin basins, slates, school requisites, household novelties, domestic goods, fancy goods, etc.
- Empire Brass Works, 106 E. 123rd Street, New York. N. Y., have exceptional facilities for manufacturing any article requiring machine shop and plating room.
- Inquiry No. 5032.**—For makers of toy balloons, rubber and other materials.
- For sale outright or on royalty patent 744,468. Pat. November 17, 1903. An improvement for felting machines. O. A. Bremer, Box 385, Burlington, Iowa.
- Inquiry No. 5033.**—For makers of the necessary machinery and equipments for manufacturing floor and table oil cloth.
- The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.
- Inquiry No. 5034.**—For manufacturers of auto tricycles.
- Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.
- Inquiry No. 5035.**—For parties to manufacture cross cut saw handles.
- Wanted—Revolutionary Documents, Autograph Letters, Journals, Prints, Washington Portraits, Early American Illustrated Magazines, Early Patents signed by Presidents of the United States. Valentine's Manuals of the early 40's. Correspondence solicited.
- Inquiry No. 5036.**—For machinery for making paper, using rice hull as a raw material.
- Inquiry No. 5037.**—For machinery for manufacturing safety matches.
- Inquiry No. 5038.**—For makers of burning and cutting leather tools. Also for farmers who supply such leather in quantity.
- Inquiry No. 5039.**—For manufacturers of machinery for making paraffine and stearine wax.
- Inquiry No. 5040.**—For machines making glycerine, machine to be run by gas or oil engine.
- Inquiry No. 5041.**—For manufacturers of brass and copper wire and brass and copper rod, in various sizes.
- Inquiry No. 5042.**—For manufacturers of diving suits and apparatus suitable for work in rivers of not more than 50 feet deep.
- Inquiry No. 5043.**—For makers of ice machinery for manufacturing ice on scale of about five tons daily.
- Inquiry No. 5044.**—For manufacturers of gas mantles and supplies.
- Inquiry No. 5045.**—For manufacturers of incubators.
- Inquiry No. 5046.**—For manufacturers of tin mechanical toys.
- Inquiry No. 5047.**—For machines and tools for a machine shop equipment.
- Inquiry No. 5048.**—For manufacturers of turbine engines of about 50 h. p.

NEW BOOKS, ETC.

THE CONSTANTS OF NATURE. Part V. A Recalculation of the Atomic Weights. By Frank Wigglesworth Clarke. New edition, revised and enlarged. Washington: The Smithsonian Institution. 1897. 8vo. Pp. vi, 370.

Those who are at all familiar with the tables issued by Mr. Clarke some twenty years ago, under the title "Table of Specific Gravity for Solids and Liquids," will appreciate the task of correcting and amplifying that work. Since 1884 there has been a remarkable activity in the determination of atomic weights. Much new material has accumulated, the assimilation of which in combination with the old data being the object of Mr. Clarke's present book. In his introduction Mr. Clarke has outlined the method which he has adopted in discussing and combining results of previous investigators. The chief value of the work lies in the fact that the data have been brought together and reduced to common standards, and for each series of figures the probable error has been determined. Mr. Clarke's work will undoubtedly be welcomed by chemists as perhaps the most valuable contribution to the subject of atomic weights which has appeared within the last decade.

PRACTICAL LESSONS IN ELECTRICITY. Elements of Electricity and the Electric Current. By L. K. Sager. Electric Wiring. By H. C. Cushing, Jr. Storage Batteries. By Prof. B. Crocker. Selected from the Textbooks in the Electrical Engineering Course of the American School of Correspondence, Armour Institute of Technology, Chicago, Ill. 1903. Square 8vo. Pp. 63, with an Appendix. Price 90 cents.

An examination of this work convinces us that the purpose for which it was issued, namely, to give the public an opportunity to judge of both the standard and scope of the instruction offered in the electrical engineering course of the American School of Correspondence at Armour Institute of Technology, is more than fulfilled. The book consists essentially of four parts, all distinguished by a common-sense treatment of a subject, which, particularly in its elementary conceptions, is apt to confuse the average student not a little. Prof. Crocker's wide experience as a teacher is apparent in the division on storage batteries. That portion of the work is characterized by a lucidity of treatment which is unfortunately not often found in books upon so recondite a subject. Mr. Cushing's division on electrical wiring may be regarded as an epitome of his well-known work on standard wiring—a simple, condensed account of what a fairly advanced student ought to know of this particular branch of applied electricity. Mr. Sager has performed what may well be considered the most difficult task allotted to any of the authors of this book, namely, that of presenting as tersely as possible the elementary conceptions of electricity. His first division on the rudiments of electricity follows more or less the beaten path of Silvanus Thompson and other writers of elementary textbooks. In his division on the electric current, he has outlined with the help of fairly simple mathematics the work which the electric current is capable of performing. Not the least valuable part of the book to the student is a series of examination papers pertaining to the subjects treated.

THE UNIT BOOKS.

We have received from Howard Wilford Bell, 259 Fifth Avenue, New York, several copies of the "Unit Books," so termed because they consist of units of twenty-five pages each and are sold by the unit. In the series of unit books thus far contemplated are included various works on history, science, literature, and the arts. Each book is sold at a price based on its length. A book of 250 pages consisting of ten units costs ten cents. Although it may be commercial, this system of publishing has certainly the merit of being fair. From the book-making standpoint it must be confessed that the specimens which we have received are excellent examples of the printing art. Set in Scotch Roman type, printed on feather-weight paper, and neatly bound, the books present an appearance which is exceedingly attractive. Mr. Bell's idea lends itself very well to the publication of literary masterpieces. We should like to see a few scientific works included in his list—a few of Huxley's and Tyndall's lectures, for example.

NEW THOUGHT PRIMER. By Henry Harrison Brown. San Francisco: "Now" Folk [Publishing Company]. 1903. 16mo. Pp. 64. Price 25 cents.

SMALL ELECTRIC MOTORS: HOW TO MAKE AND USE THEM. London: Dawbarn & Ward. 1903. 16mo. Pp. 75. Price, 20 cents.

THE FIGHTING CHANCE. THE ROMANCE OF AN INGENUE. By Gertrude Lynch. Illustrated by Bayard Jones. New York: Smart Set Publishing Company. 1903. Crown 8vo. Cloth. Price, \$1.25.

THE VULGARIANS. By Edgar Fawcett. Illustrated by Archie Gunn. New York: Smart Set Publishing Co. 1903. Crown 8vo. Price, \$1.00.

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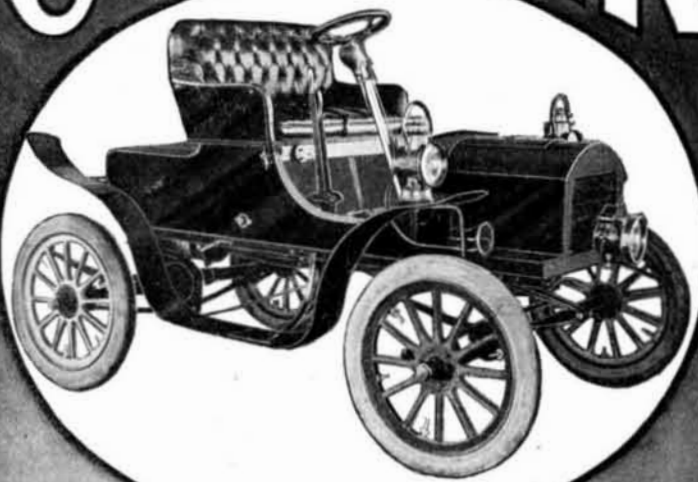
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