

Business and Personal.

The charge for insertion under this head is One Dollar a line for each insertion; about eight words to a line.

I wish to buy second hand lathes, planers, drills, shapers, belting, engines, and boilers.

For Sale—A large number of 16 and 32 light Jenney dynamos at half their original cost.

Acme engine, 1 to 5 H. P. See adv. next issue.

Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J.

Burnham standard turbine, Burnham Bros., York, Pa.

Wanted—Garbage burner. Send full particulars, circulars, etc., to M. & Co., care Scientific American.

Best Ice and Refrigerating Machines made by David Boyle, Chicago, Ill. 170 machines in satisfactory use.

Steam Hammers, Improved Hydraulic Jacks, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York.

Screw machines, milling machines, and drill presses. The Garvin Mach. Co., Laight and Canal Sts., New York.

Packer Ratchet Drills are drop forged from Norway iron and bar steel. Billings & Spencer Co., Hartford, Conn.

Tight and Slack Barrel Machinery a specialty. John Greenwood & Co., Rochester, N. Y. See illus. adv., p. 300.

Wanted—Capital to develop several useful inventions. Sketches furnished on application. Address Griewold Bros., Dodge Center, Minn.

For the original Bogardus Universal Eccentric Mill, Foot and Power Presses, Drills, Shears, etc., address J. S. & G. F. Simpson, 26 to 36 Rodney St., Brooklyn, N. Y.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4; Munn & Co., publishers, 361 Broadway, N. Y.

A rare opportunity for a young man with a few thousand dollars capital to secure a permanent position as manager of a Western water works company.

For Sale—Four Buckeye engines, comparatively new, 15 by 18 cylinder. Flywheel 9 ft. by 16 in. face.

Engineers, manufacturers, and makers are invited to send gratuitously catalogues, price-lists, and trade terms to George T. Poole, Assoc. R. I. B. A., Assoc. M. I. C. E., Colonial Architect and Superintendent of Public Works, Department of Public Works and Buildings, Perth, Western Australia.

Send for new and complete catalogue of Scientific and other books for sale by Munn & Co., 361 Broadway, New York. Free on application.



HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters, or no attention will be paid thereto.

References to former articles or answers should give date of paper and page or number of question.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

(3020) R. G. W. asks: Can you give me any test to know when any gold remains in a worn-out cyanide of gold bath, without the troublesome way of evaporating?

(3021) E. H. A. asks for the process of burnishing the gilt on photograph cards. A. The gilt on card mounts is put on by first using a size, then the gold leaf is applied and rubbed or brushed over with a thin solution of albumen; when dry, this is burnished with an agate or bone tool.

(3022) A. K. C. asks how to melt or dissolve old rubber that has been used and out of shape, so as to recast. Would a mould of plaster Paris answer? Would the article be smooth and not sticky? A. You cannot melt or dissolve old rubber. It can be worked up by mastication with fresh gum.

(3023) L. D. N. asks how to repair a looking glass where the coating has seemed to have parted or has been removed in spots. A. From a small piece of old looking glass scrape off all the silvering except what will suffice to cover the spot and cap over on all sides.

(3024) J. C. G. asks for a composition for silver plating by the dipping process. A. Any plating solution of silver can be used. An ammoniacal solution of nitrate of silver with some whitening in suspension is available. The plating produced is very inferior.

(3025) Subscriber asks: Can you inform me what chemical ingredients will erase ordinary writing ink from paper? A. Javelle water or a mixture of oxalic and tartaric acids in equal quantity dissolved in water.

(3026) J. W. asks how to clean tarnished gold and silver lace. A. Brush away all the dust, then brush with rock alum which has been burned, crushed, and sifted through a lawn sieve.

(3027) A. M. T. asks how to pickle mushrooms. A. Wash the mushrooms with water, wipe them with flannel and put them in brine and boil. After boiling for a few minutes drain in a colander and spread out on a linen cloth to dry.

(3028) G. F. S. asks: 1. Is water porous? A. Not in the mechanical sense. It has physical or molecular pores. 2. Can you reduce the bulk of water by pressure? A. Yes.

(3029) E. S. D. asks: Will you kindly (through columns of SCIENTIFIC AMERICAN) give a receipt for a preparation suitable for removing wood stains from the hands of wood turners? Would like to know of some chemical or preparation which would permanently remove such stains.

(3030) F. C. K. asks for some salt or other chemical which is soluble in milk, and that would have no effect on it while cool, but that would have an acid reaction when heated that would coagulate the milk without changing its color or making it poisonous.

NEW BOOKS AND PUBLICATIONS.

ARTISTIC HOMES, in city and in country, with other examples of domestic architecture. By Albert W. Fuller and William Arthur Wheeler. Boston: Ticknor & Co. 1891. 70 plates. Price \$6.

This very elegant work presents a series of photographs of houses, of public buildings, railroad stations, highschools, etc., in various parts of the country.

THE ELEMENTS OF DYNAMIC ELECTRICITY AND MAGNETISM. By Philip Atkinson, A.M., Ph.D. New York: D. Van Nostrand Company. 1891. Pp. xii, 405. Price \$2.

This book, it is stated, was written for learners rather than for the learned. It includes a very convenient resume of the subject of current electricity, contains numerous illustrations and seems altogether to be an acceptable presentation of the subject.

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AND EACH BEARING THAT DATE.

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