

dition of these important architectural remains. We are glad to be able to say that recent advices from Athens state that the work of preservation, if not of restoration, will not be delayed.

ALGEBRA FOR BEGINNERS. By H. S. Hall and S. R. Knight. Revised and adapted to American schools by Frank L. Severn, A.M., M.D. New York and London: Macmillan & Company. 1895. Pp. 188. 16mo. Price 60 cents.

This excellent work will be found to meet the wants of all who do not require a knowledge of algebra beyond quadratic equations—that portion of the subject usually covered in the examination for admission to the classical course of American colleges.

MATRICULATION DIRECTORY, No. XVIII. June, 1895. London: University Correspondence College. 1894. Pp. 132. 16mo. Price 1s.

This pamphlet belongs to the University Tutorial Series and gives the general method of work by which specially prepared courses of lessons are given for the examinations of the University of London in Arts, Science, Laws, and Music. These courses "embrace all that is requisite for success, yet entirely relieve candidates from superfluous work, the special syllabus of each examination being always kept in view."

DESIGNING AND PAINTING VITRIFIABLE COLORS ON GLASS MADE ACCESSIBLE TO ALL. By H. P. Saucere. Translated and adapted by Favor Ruhl & Company, New York City. Pp. 53. 16mo, illustrated. Price 60 cents.

This valuable little book is authorized by Lacroix, of Paris, the well known manufacturer of vitrifiable colors, and with the aid of the clear descriptions any one who can paint at all should be able to turn out excellent work. The newest methods of work are described.

THE CATHEDRALS OF ENGLAND AND WALES. "The Builder" Series. London: Published by "The Builder," 46 Catherine Street, London, W. C. 1894. Elephant folio. 62 plates and plans on plate and India paper. Detail cuts and descriptive letterpress. Library edition limited to 250 copies. Price, unbound in portfolio, £3 13s. 6d. Bound in whole buckram, £4 4s. American price, \$29.40 and \$33.60 respectively.

The cathedrals of England are the richest architectural heritage of the English people, and any work devoted to them is sure of attention. We already have many works devoted to them, treating them from the popular and the professional side and occasionally from the side of the professional architect as well.

AN ELEMENTARY TEXT BOOK OF MECHANICS. (The University Tutorial Series.) By William Briggs, M.A., and G. H. Bryan, M.A. London: University Correspondence College Press. 1895. 16mo. Pp. 336, 167 illustrations. Price \$1.40.

In preparing the present book it has been the aim of the authors to afford beginners a thorough grounding in those parts of dynamics and statics which can be treated without assuming a previous knowledge of trigonometry.

THE PRINCIPLES OF PHYSICS. By Alfred P. Gage, Ph.D. Boston: Ginn & Company. 1895. 12mo. Pp. 493, illustrations. Price \$1.55.

The author published a text book on physics some thirteen years ago entitled "Elements of Physics." The present volume is, however, an entirely new work.

arrangement the book does not differ materially from the general run of books on the subject. The method of presentation is clear and logical and a large number of footnotes add to the interest of the work.

THE MANUFACTURE OF EXPLOSIVES. A Theoretical and Practical Treatise on the History, the Physical and Chemical Properties and the Manufacture of Explosives. By Oscar Guttman. London: Whittaker & Company, 2 White Hart Street, Paternoster Square. 1895. 2 vols. Pp. 782, xlix, 147 illustrations. Price \$9.

A really good book on explosives has been needed for a long time, and the present work seems to have been written by a person thoroughly conversant with his subject. The introduction of the dynamites for civil and of gunotton and picrates for military engineering operations, and the general adoption of small bore magazine rifles and smokeless powders has completely revolutionized the subject of explosives, and rendered many of the old books useless.

POSITION DIAGRAM OF CYLINDER WITH MEYER CUT-OFF AT ONE-EIGHTH, ONE-FOURTH, THREE-EIGHTHS AND ONE-HALF STROKE OF PISTON. New York: Spon & Chamberlain, 12 Cortlandt Street. 1895. Price 25 cents.

The valves may be adjusted by pulling the slips on the underside of the card. Such diagrams are of great assistance in comprehending a difficult subject.

Any of the above books may be purchased through this office. Send for new book catalogue just published. MUNN & Co., 361 Broadway, New York.

SCIENTIFIC AMERICAN BUILDING EDITION. AUGUST, 1895.—(No. 118.)

TABLE OF CONTENTS. 1. A Colonial house at Scranton, Pa. Perspective elevation and floor plans. Cost complete \$4,500. E. G. W. Dietrich, architect, New York City.

Business and Personal.

The charge for insertion under this head is One Dollar a line for each insertion: about eight words to a line. Advertisements must be received at publication office as early as Thursday morning to appear in the following week's issue.

Notes & Queries

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(6606) T. J. S. writes: Please give me a receipt for enamel for bicycles. A. Enamel black for cycles: Asphalt, 40 ounces; boiled linseed oil, 1/2 gallon; litharge, 6 ounces; powdered zinc sulphate, 4 ounces; red lead, 6 ounces; litharge, 6 ounces.

TO INVENTORS. An experience of nearly fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere.

INDEX OF INVENTIONS For which Letters Patent of the United States were Granted August 20, 1895, AND EACH BEARING THAT DATE.

Table listing various inventions such as Air blast conveyer, Air carburizing apparatus, Air forcing device, Alarm, etc., along with their respective inventors and dates.

Table listing various inventions such as Bicycle mud guard, Bicycle saddle support, Bicycle's tool, Bin or sample case, etc., along with their respective inventors and dates.

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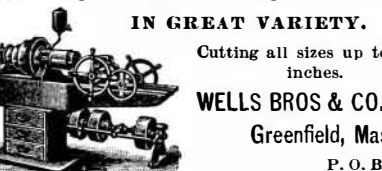
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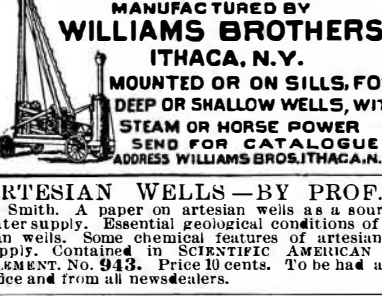
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