

NEW BOOKS, ETC.

**PAINTERS' OILS, COLOURS, AND VARNISHES.** Edited by Paul N. Hasluck. Philadelphia: David McKay, 1905. 12mo.; pp. 156. Price, \$1.

This work is a digest of information contributed by experienced chemists and color manufacturers, scattered through the columns of the building world, and gives concise data on the general principles and practice of the subject, in a form convenient for everyday use. Numerous diagrams and engravings illustrate the text, and a carefully-arranged index adds to the value of the book.

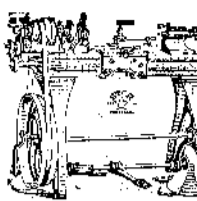
**THE CHRYSANTHEMUM.** By Arthur Herrington. New York: Orange Judd Company, 1905. 8vo.; pp. 158. Price, 50 cents.

A practical treatise on the propagation, cultivation, training, raising for exhibition and market, hybridizing, origin, and history of the chrysanthemum, written to show that not in secret arts and practices, but in a plain course of procedure, are attained the results as demonstrated. The text is illustrated with numerous engravings.

**BEGINNER'S MANUAL OF SUBMARINE CABLE TESTING AND WORKING.** By G. M. Baines. New York: The D. Van Nostrand Company, 1905. 12mo.; pp. 217. Price, \$3.50.

Many apparently formidable difficulties are encountered by those who turn their attention toward acquiring the knowledge necessary to

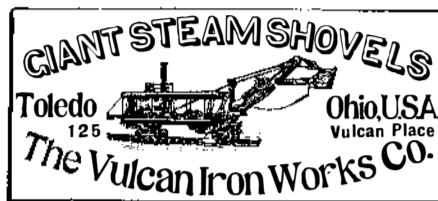
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the theoretical and practical mastery of this subject. The mass of information that confronts them, while it cannot be ignored, is hard to systematize and harder still to assimilate. Wherever possible arithmetic is used instead of algebra, and where algebraic formulas must be given, they are presented in a clear and simple manner, thus making progress easy for those not far advanced in algebra. The book will appeal to the beginner in submarine cable testing and working.

**TOOLS FOR ENGINEERS AND WOODWORKERS.** By Joseph Horner, A.M.I.Mech.E. New York: D. Van Nostrand Company, 1905. 8vo.; pp. 340; 456 illustrations. Price, \$3.50.

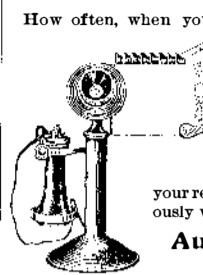
This book gives an account of such tools as are commonly used by engineers and woodworkers, and is written principally from the standpoint of men who have to use them, and who desire to understand the principles which underlie the forms in which those tools are found. Practical instructions for their employment have been added. The work is comprehensive in its scope, and the subject of Instruments of Measurement is treated in a very full manner, and freely illustrated with drawings of leading types.

**HYDRAULIC TABLES.** By Gardner S. Williams, M.Am.Soc.C.E., and Allen Hazen, M.Am.Soc.C.E. New York: John Wiley & Sons, 1905. 8vo.; pp. 75. Price, \$1.50.

These tables show the loss of head due to the friction of water flowing in pipes, aque-

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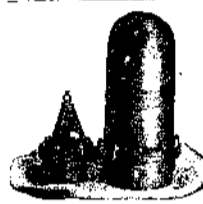
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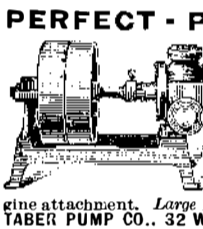
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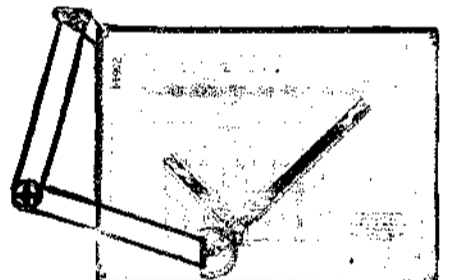
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Death's Laboratory

Drawn by E. W. Kemble

**COLLIER'S EXPOSÉ OF THE PATENT MEDICINE FRAUD**

**DEATH'S LABORATORY**

"Patent medicines are poisoning people throughout America to-day. Babies who cry are fed laudanum under the name of syrup. Women are led to injure themselves for life by reading in the papers about the meaning of backache. Young men and boys are robbed and contaminated by vicious criminals who lure them to their dens through seductive advertisements."

June 3d

**CRIMINAL ALLIANCE OF THE NEWSPAPERS WITH FRAUD AND POISON**

"Newspapers have done so much to create the success of 'fakes' in medicine that their duty is clearly to help remove them. It sounds high-minded for Journalism to bark ferociously against the reign of graft in politics or in high finance, but it can practice a little real reform, if it chooses, by canceling some of the most profitable results of its own limberness of conscience."

July 8th

**THE GREAT AMERICAN FRAUD**

"Gullible America will spend this year some seventy-five millions of dollars in the purchase of patent medicines. It will swallow huge quantities of alcohol, an appalling amount of opiates and narcotics, a wide assortment of varied drugs, ranging from powerful and dangerous heart depressants to insidious liver stimulants; and, far in excess of all other ingredients, undiluted fraud."

October 7th

**PERUNA AND THE "BRACERS"**

"So well recognized is the use of Peruna for its alcoholic effects that a number of Southern papers advertise a cure for the 'Peruna habit.' What makes Peruna profitable to the maker and a curse to the community at large, is the fact that the minimum dose first ceases to satisfy; then the moderate dose, and finally the maximum dose; and the unsuspecting patron, who began with it as a medicine, goes on to use it as a beverage, and finally to be enslaved by it as a habit."

October 28th

**CONSPIRACY AGAINST THE FREEDOM OF THE PRESS**

"So it was no mean intellect which devised the scheme whereby every newspaper in America is made an active lobbyist for the Patent Medicine Association. The man who did it is the present president of the organization; its executive head in the work of suppressing public knowledge, stifling public opinion, and warding off public legislation."

November 4th

**LIQUOZONE**

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November 18th

**THE SUBTLE POISONS**

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December 2d

**Other Articles to be Announced Later**

If you can not secure these issues from your dealer, they will be mailed to you on receipt of price, which may be sent in the form of stamps. Address P. F. COLLIER & SON, 430 West Thirteenth Street, New York City.

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CAPT. WM. F. DAGWELL.

Bay City, Mich., June 10, 1905.

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ducts, sewers, etc., and the discharge over weirs. All the computations of figures contained in this volume, except a few fundamental ratios, have been made with the slide-rule, and only such accuracy has been sought as can readily be obtained by this method. To the hydraulic engineer the tables will prove a source of reliable data.

**THE COPPER HANDBOOK.** Vol. V. Compiled and published by Horace J. Stevens. Houghton, Mich., 1905. 8vo.; pp. 882. Price, \$7.50.

This, the fifth edition of the Copper Handbook, represents a year of careful, steady work. A great mass of material from thousands of different sources has been closely examined, the most important facts gathered therefrom, and verified as fully as possible. Statistics have been furnished by a great majority of the officials of the various governments. Like its predecessors, this volume has been written along systematic lines. The work of passing upon the honesty and responsibility of various mining companies has been carried much further this year than in any preceding edition of the book. There are very full and interesting chapters on the History of Copper; Geology of Copper; Chemistry and Mineralogy of Copper; Metallurgy of Copper; Uses of Copper, etc. The chapters on the Copper Deposits of South America, Europe, Africa, Asia, Australia, and Oceania contain much valuable and thoroughly up-to-date information. An index worthy of the book is given.

**SOILS AND FERTILIZERS.** By Harry Snyder, B.S. Easton: Chemical Publishing Company, 1905. 16mo.; pp. 294. Price, \$1.50.

A knowledge of the contents of this book would go far toward making a good farmer. The work includes all of the topics and laboratory practice relating to soils as outlined by the Committee on Methods of Teaching Agriculture appointed by the Association of Agricultural Colleges and Experiment Stations.

**SECOND YEAR CHEMISTRY.** A Handbook for Laboratory and Class Work. By Edward Hart, Ph.D. Easton, Pa.: Chemical Publishing Company, 1905. 16mo.; pp. 165. Price, \$1.25.

The author has produced a valuable little textbook, in which one of the salient points dwelt upon is the extreme care necessary in qualitative as well as quantitative analysis. The book will prove of value in all schools.

**THE CEREALS IN AMERICA.** By Thomas F. Hunt. New York: Orange Judd Company, 1904. 12mo.; pp. 421. Price, \$1.75.

A very valuable book, dealing with an agricultural subject of vast importance. The cereals have been treated principally with reference to their American environment, although valuable foreign data has often been included. It should form a textbook for all agricultural schools and colleges. The entire subject, from the planting of the seed until the finished product is marketed, is ably discussed.

**METHODS OF ORGANIC ANALYSIS.** By Henry C. Sherman, Ph.D. New York: The Macmillan Company, 1905. 8vo.; pp. 245. Price, \$1.75.

The purpose of this work is to give a connected introductory training in organic analysis, especially as applied to plant and animal substances and their manufactured products. The greater part of the book is devoted to quantitative methods for food materials and related substances. It will prove an excellent textbook, and the description of methods was written primarily for the use of third-year students in the School of Chemistry, Columbia University.

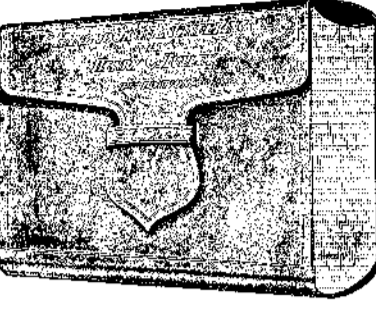
**THE SYNTHETIC DYESTUFFS AND THE INTERMEDIATE PRODUCTS FROM WHICH THEY ARE DERIVED.** By J. C. Cain, D.Sc., and J. F. Thorpe, Ph.D. London: Charles Griffin & Co., Ltd. Philadelphia: J. B. Lippincott Company, 1905. 8vo.; pp. 405

This book is designed to serve the purposes of a laboratory textbook for the use of students in the chemical laboratories of technical schools and of colleges where technical subjects, connected with this branch of higher organic chemistry, are taught. A theoretical knowledge of chemistry is presupposed. To all who are in any way interested in the subject of dyestuffs, we can confidently recommend this work.

**A MANUAL OF MINING.** By M. C. Ihseng, C.E., E.M., Ph.D., and Eugene B. Wilson, Mining and Metallurgical Engineer. New York: John Wiley & Sons, 1905. 8vo.; pp. 723; 237 figures. Price, \$5.

This book is based on a course of lectures upon mining, delivered at the School of Mines of the State of Colorado, and is issued with the advice of its board of trustees. Part I. contains a brief geological review and a discussion of such points as the engineer must include in his report, that is, the preparatory and development work, systems of mining and the plant for power, hoisting, pumping, and ventilation. Part II. embraces the practice of prospecting, drilling, blasting, shafting, tunneling, and timbering, in addition to some remarks upon the examination of mines. Although designed as an elementary treatise for the use of those desiring a reference book, the book contains, within a moderate compass, the

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INDEX OF INVENTIONS For which Letters Patent of the United States were Issued for the Week Ending December 5, 1905

AND EACH BEARING THAT DATE See note at end of list about copies of these patents.]

Table listing inventions and their patent numbers, including items like 'Abdomen depressing means', 'Acid making concentrated formic', 'Agricultural machinery', etc.

The Wizard Engine With Pump. OLDS ENGINES Economical Power. In sending out their last specifications for gasoline engines for West Point, the U. S. War Department required them to be 'Olds Engines or equal.'

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