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WORLD'S RECORD.

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## Scientific American





Furthermore, its information is invariably ac curate; which can scarcely be said of some other well-known naval annuals.

THE BLOCK SYSTEM OF SIGNALING ON AM-ERICAN RAILROADS, By Bram B. Adams. New York: The Railroad Gazette. 1901. 8vo. Pp. 260.

In view of the present discussion of signal systems, which has been aroused by the recent accident in the Grand Central tunnel, New York, the above work, which is from the pen of a practical railroad man and one of the editors of a leading railroad journal, is par ticularly timely. The subject is treated in a most thorough and practical manner, and is fully illustrated with half-tone engravings and line cuts, the latter being freely lettered and very completely described in the accompanying text. The drawings are very clear, both the smaller illustrations showing mechanical details and the general plans of yards and signaling installations being worked out with a comprehensive thoroughness that leaves nothing to be desired. The work is clearly written, and covers the ground with great completeness The telegraph block systems of three of the largest railroads of the country, including the Pennsylvania, are described in three separate chapters. Then follow a chapter on single-track blocking, and two chapters on the controlled manual system as used on the N. Y., N. II. & H. Railroad. The last five chapters are devoted to descriptions of the various systems of interlocking. While the work is primarily one for the engineer and the superintendent, it should be in the hands of every railroad man whose duties necessitate his familiarity with signals and their operation.

THE PREVENTION OF SMOKE. Combined with the Economical Combustion of Fuel. By W. C. Popplewell, M.Sc. New York: D. Van Nostrand Com-pany. London: Scott, Greenwood & Co. 1901. 8vo. Pp. 203. Price \$3.50 net.

The main portion of this book is devoted to a brief statement of the principles underlying the smokeless and economical combustion of fuel; a description of the most recent practice for burning fuel for commercial purposes ; a review of a number of complete trials recently made with the object of showing the best methods of dealing with coal for the pur-pose of steam raising, and, lastly, a summary of the law as it relates to the smoke question. This scheme, both simple and logical, has been carried out thoroughly. The illustrations in the book might well be improved; but the printing is excellent.

THE SOAP BRAND RECORD AND TRADEMARK MANUAL. By Leebert Lloyd Lam-born, B.S. New York: Charles S. Berriman, Soap Gazette and Per-fumer. 1902. 8vo. Pp. 178. Price \$5.

The author's intention is evidently good. But sometimes he says things that invitate a trademark attorney. Mr. Lamborn constantly refers to "copyrighted" trademarks. If this book is ever published in a second edition we trust that he will substitute "registered" for the inaccurate "copyrighted." On page 49 the author refers to the Patent Office Record, a publication with which we are not familiar. Perhaps he refers to the Official Gazette. By far the most valuable portion of the work is an excellent list of registered ("copyrighted," the author calls it) trademarks for soap. That list explates the sins mentioned.

A DICTIONARY OF DYES, MORDANTS, AND OTHER COMPOUNDS USED IN DYEING AND CALICO PRINTING. BY Christopher Rawson, Walter M. Gardner and W. F. Laycock. London: Charles Griffin & Co. Philadelphia: J. B. Lippincott Company. 1901. Octavo. Pp. 37.4. Price \$5.

The authors of this book are men whose names are intimately associated with the chemistry of dyeing. Their work seems to be a very complete lexicon of such dyes and mordants as are used in the dyeing and printing of calicoes. The dictionary will probably be of great practical value in the laboratories of color chemists. To many perhaps the lack of a method of applying the dyes and mordants will be felt; but such methods will be found fnlly described in the "Manual of Dyeing" prepared by the same authors.



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MUNN & CO., Publishers, 361 Broadway, New York.

WATER AND ITS PURIFICATION. A Handbook for the Use of Local Authorities, Sanitary Officers, and Others Interested in Water Supply. By Samuel Rideal, D.Sc. Second Edition, Revised and Extended. Philadelphia: J. B. Lippincott Company. London: Crosby, Lockwood & Son. 1902. 16mo. Pp. i-xvi, 346.

This is the second edition of a work which has proven of rare value to the sanitary engineer and to those who have been in any way interested in the water supply of large cities. In the present edition additional matter dealing with recent water problems and sand filtration has been included. The first chapter has been rewritten and new matter incorporated. In its revised form the book should certainly meet with a favorable reception.

TUBULAR TRANSIT FOR LONDON. By John Leighton, F.S.A. London, 1902. First Edition. Pp. 16.

