

NEW BOOKS, ETC.

SELF-PROPELLED VEHICLES. By James E. Homans, A.M. New York: Theodore Audel Company, 1907. 8vo.; pp. 598. Price, \$2.

Mr. Homans's excellent work hardly needs recommendation after the success which attended the first edition. Few books upon this subject are provided with illustrations which so excellently supplement the text in the discussion of the comprehensive questions arising in the theory, construction, operation, care, and management of the automobile. The author has covered the subject with great thoroughness, and few indeed are the points which have not received due attention. It is difficult to discuss this book in detail, because of its comprehensive nature; but among the illustrations Plate I, a cross-sectional diagram of a four-cylinder touring car, giving the names of the principal parts, will appeal to every non-technical person interested in the automobile.

AUTOMOBILE CATECHISM. By Forrest R. Jones, M.E. New York: The Class Journal Company, 1906. 16mo.; pp. 134. Price, \$2.

The author has successfully attempted to provide a brief and concise manual upon the automobile for the use of owners and drivers of cars possessing internal-combustion motors. The book, which is provided with a number of illustrations to supplement the text, is in the convenient question and answer form, and is provided with a careful index and a small but useful list of "Don'ts" and facts to be remembered. Every part of the engine is given due weight, and numerous troubles liable to be encountered by the driver are explained and their remedies are given.

THE AMERICAN ANNUAL PHOTOGRAPHER AND PHOTOGRAPHIC TIMES ALMANAC FOR 1907. New York: George Murphy, Inc. 8vo.; pp. 354. Price, paper, 75 cents; cloth, \$1.25.

The twenty-first volume of the American Annual comes to us this year as well printed and as well illustrated as ever. Among the special articles which deserve mention, we would enumerate Mr. Wilson Bentley's snow and ice crystal photography; D. G. Archibald's "Developing for Certain Results"; W. W. Lakin's "Carbon Printing for the Beginner"; Maximilian Toch's "Photomicrography as an Aid to Chemistry"; C. H. Claudy's "Advanced Photography as a Recreation"; J. A. Anderson's "Apertures"; and Richard Hines's "A Simple Dark Room Light." The illustrations this year, lavish as usual in their number, are characterized for the most part by excellent artistic taste on the part of the photographer. It must be confessed, however, that the half-tone process does not always lend itself to the reproduction of the soft effects obtained on rough papers. In the appendix will be found the customary collection of photographic formulas.

PRACTICAL LETTERING. With Original System for Spacing, Complete Spacing Guide, Analysis, etc. By Thomas F. Meinhardt. New York: The Norman W. Henley Publishing Company, 1906. Oblong, paper cover. Fully illustrated. Pp. 15. Price, 60 cents.

THE STRANGE CASE OF DR. BRUNO. By F. E. Daniel, M.D. New York: Guarantee Publishing Company, 1906. 12mo.; pp. 235; 14 illustrations by J. L. Brooks. Price, \$1.50.

EXPORTERS' ENCYCLOPEDIA. Containing Full and Authentic Information Relative to Shipments for Every Country in the World. New York: Published by the Exporters' Encyclopedia Company, 1907. 12mo.; pp. 633. Price, \$5.

UNIVERSAL DICTIONARY OF MECHANICAL DRAWING. By George H. Follows. First Edition, First Thousand. New York: The Engineering News Publishing Company, 1906. Oblong, pp. 60. Price, \$1.

INDEX OF INVENTIONS

For which Letters Patent of the

United States were Issued

for the Week Ending

December 11, 1906,

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

Table listing inventions with dates and names, including items like Abrasive wheel, Air brake systems, Air compressor, etc.

Table listing inventions with dates and names, including items like Battery cell, Bearings, Bedsteads, Beehive, Belt throwing device, etc.

Table listing inventions with dates and names, including items like Elevator belt, Elevator safety brake, Elevator safety device, etc.

Table listing inventions with dates and names, including items like Meter control, Music holder, Musical instruments, Musical wind instrument, etc.