

this volume all the material necessary for the obtaining of a working knowledge of freehand and perspective drawing.

THE COMMERCIAL HANDBOOK OF CANADA. Heaton's Annual. Heaton's Agency, 1909. 12mo.; pp. 400. Price, \$1.

Without an inch of wasted space and with no pretensions to being literary or entertaining, this volume makes its fifth annual appearance more complete than ever, packed with useful information from cover to cover and in the most condensed form consistent with clearness. It gives particulars of all branches of the public service, government officials, members of the Senate, House of Commons, and local legislatures, lists of banks and branches, insurance and trust companies, railway and steamship lines, patent and trade-mark regulations, regulations affecting foreign corporations, weights, measures, and money values and their corresponding values in the systems of all foreign countries. Nothing could be more complete than the information as to customs regulations and tariffs, and the proportionate imports and exports of all commodities, which should be invaluable to export merchants in the United States having dealings with Canada. The handbook also gives full but concise information compiled from official reports on agriculture, commerce, finance, fisheries, forests, manufactures, and mines, and a gazetteer of all towns of over 1,500 population, their existing industries, shipping facilities, power rates, and inducements offered to or especial opportunities for new industries.

THE FLUTE AND FLUTE-PLAYING IN ACOUSTICAL, TECHNICAL, AND ARTISTIC ASPECTS. By Theobald Boehm. Translated and annotated by Dayton C. Miller, D.Sc. Cleveland: Published by Dayton C. Miller, 1908. Pp. 100. Price, \$1.50.

While much has been written about the flute, the writings of Boehm, the inventor of the modern flute, are not well known; this is especially true of his second book, which is here presented. There is need, therefore, of this work, in which is given as complete a description as is possible of his flutes and instructions for handling them, and instructions upon the art of playing the flute with a pure tone and a good style. Boehm urged that an English translation be made, for "then all that I have done in sixty years will be known." For the present publication the translator has received the permission and hearty approval of Theobald Boehm and his sisters, of Munich, grandchildren of the inventor of the flute.

MARS AS THE ABODE OF LIFE. By Percival Lowell, New York: The Macmillan Company, 1908. 8vo.; pp. 288. Price, \$2.50.

The Mars of Prof. Lowell is not as yet the Mars of most astronomers, partly because Prof. Lowell, unlike other astronomers, has devoted the better part of his life to a careful study of the ruddy planet, and is therefore a partisan specialist, and partly because his antagonists are not willing to accept his ingenious deductions. Prof. Lowell's argument is briefly this: Mars is a planet which is fast drying up. The only water there to be found is gathered at the poles in the form of ice and snow. If the planet be inhabited, the chief concern of the inhabitants must necessarily be to conduct this polar water to those arid regions which could be made to blossom if they were irrigated. Hence the "canals" which Prof. Schiaparelli originally discovered, and the number of which has grown astonishingly under Prof. Lowell's eye. Lowell's arguments in favor of the artificial origin of the canals are their remarkable straightness and the fact that they converge apparently with intention in well-defined spots. His theory stands or falls with the artificiality of the canals, and it is just here where most astronomers differ with him. His reasoning is reasoning by analogy, because he constantly compares the conditions on Mars with conditions on the earth. Whether or not Prof. Lowell's views be accepted, it must at least be said that they explain more simply than any other theory the phenomena of our nearest planetary neighbor. In spite of much adverse criticism, he has adhered unwaveringly to his views. Prof. Lowell has a happy gift of presenting his discoveries in such an interesting way that even the skeptical critic must admire the skill with which he has prepared this book. The astronomical reader will find some sixty pages of notes of a mathematical nature, which will enlighten him on those phases of the subject that could not be discussed in the body of the work because of its popular character.

HANDBUCH FÜR HEER UND FLOTTE. Enzyklopädie der Kriegswissenschaften u. verwandter Gebiete. Unter Mitwirkung von zahlreichen Offizieren, Sanitätsoffizieren, Beamten, Gelehrten, Technikern herausgegeben von Georg von Alten, Generalleutnant z. D. Berlin und Leipzig: Deutsches Verlagshaus Bong & Co., 1909.

This is the first installment of what promises to be an excellent military and naval encyclopedia. Many of the standard works on military science are antiquated, for which reason an attempt to publish a book abreast of the times should meet with a favorable reception. From this first installment we judge that the complete work will discuss in alphabetical order subjects relating to the training and use of troops according to modern tactics,

transportation and commissary facilities, military hygiene, military medicine, naval affairs, co-operation of army and navy, and the latest advances in military science in general. An admirable feature of the articles is the brief bibliographies by which they are concluded, and which render it possible for one to refer to original sources for more complete knowledge. Naturally, a very large portion of the work will be devoted to the technical advances that have been made in recent years. The history of the art of war will be discussed in illuminating articles. The "Hand Book" is to appear in nine volumes, of 900 pages all told, and is issued periodically.

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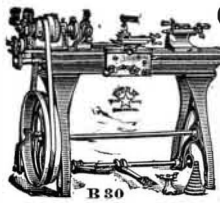
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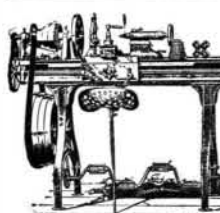
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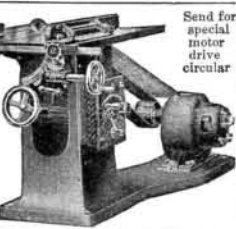
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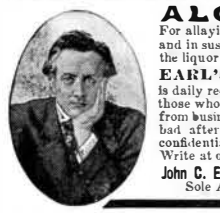
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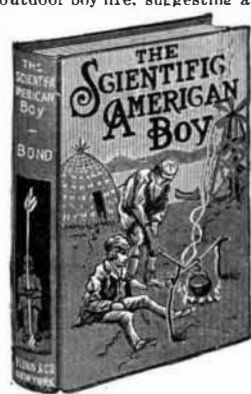
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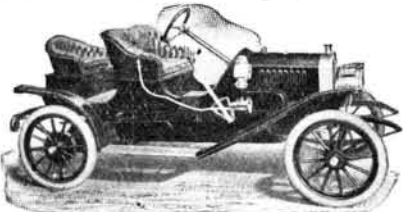
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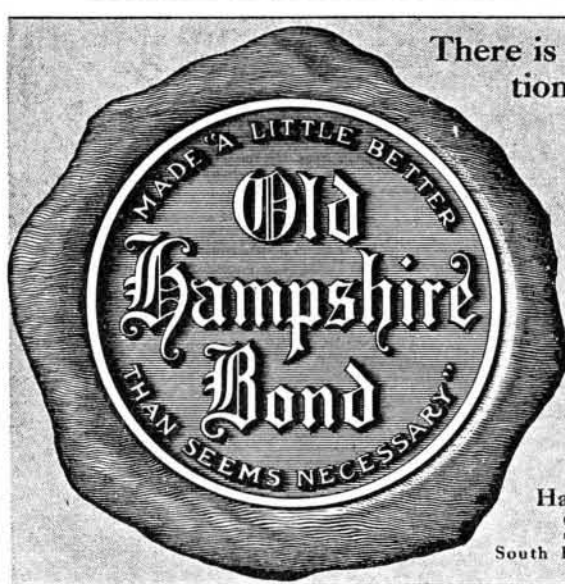
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A GROUP OF MODEL MOTOR HOUSES FOR THE SMALL COUNTRY PLACE, by Ralph de Martin, forms two pages of illustrations and sets forth the best designs for a small motor house suitable for the accommodation of one motor car and with sufficient space for a work bench.

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THE EVOLUTION OF THE SMALL HOUSE PLAN, by Joy Wheeler Dow, is an important article by a well-known architect on the economic planning of a small house, costing from \$2,500 to \$8,000. The plan and the arrangement of the rooms is the first thought given to the house and is one in which the layman should be most interested.

A FORMAL GARDEN AND PERGOLA, DESIGNED BY AN AMATEUR, by Alexander R. Holliday, informs the reader how an amateur planned and laid out his garden and how he built his pergola. Illustrated with plans and scale drawings.

PROPER FURNITURE FOR THE SMALL HOUSE, by Esther Singleton, with illustrations showing the artistic and appropriate furniture for the house, and the proper position in which it is to be placed, together with an accurate treatment of the fireplace and mantel.

THE USE OF CONCRETE IN THE BUILDING OF A SMALL COUNTRY HOUSE, by Benjamin Howes, is a timely and comparatively new subject, and is one in which much interest is shown at the present moment. The article is profusely illustrated with fifty engravings showing exterior and interior views and floor plans of small houses of various styles of architecture in which concrete is used with artistic results.

THE HEATING APPARATUS FOR THE SMALL COUNTRY HOUSE, by Allyn Frogner, is the title of an article treating in a practical manner one of the most important features of a small country house. How to heat and what is the cost? That is a question which has been well answered for the three respective systems of hot air, steam heat and hot water.

PROBLEMS IN PLANNING THE GROUNDS OF A SMALL COUNTRY PLACE, by Charles D. Lay. Mr. Lay has explained in a very concise form how the grounds around a small country place may be planted at a very low cost, and enumerates the best and most effective shrubs and plants to be used.

This SMALL HOUSE NUMBER will contain 165 illustrations covering 52 pages, which will be included in a striking colored cover.

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MUNN & COMPANY, Publishers, 361 Broadway, New York City