



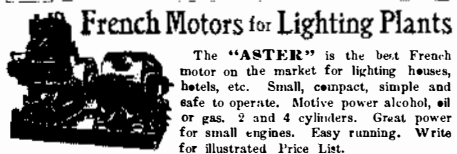
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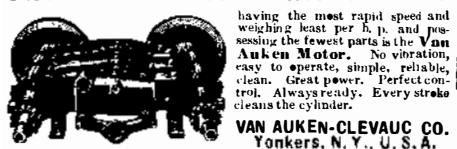
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the air. These drops always fall, as do any other drops, but they may evaporate and disappear before they reach the earth. They may be kept up by currents of air under the clouds, raising them and keeping them from coming through to the earth. Otherwise it would rain every time a cloud passes overhead. 7. Steam circulating in pipes condenses and again becomes water. They why is it that steam escaping into the cold atmosphere rises and finally becomes invisible? Why don't it condense and fall back to the earth in the form of water? A. Clouds are not vapor or steam, but actual drops of water. Steam when it comes out of a pipe and is seen as a cloud is no longer steam but drops of water. If these drops disappear, it is because they evaporate into the air. They often fall as water, wetting the ground below. You would profit by reading some good book on meteorology. Waldo's "Meteorology" is good. We can send it for \$1.75 by mail.

NEW BOOKS, ETC.

THE MODERN WOOD FINISHER. By F. Maire. Chicago: The Western Painter, 1904. 16mo.; pp. 159. Price, 50 cents.

The author has written a series of articles on wood finishing in all its branches. These embody his observations of the practice of wood finishing as it exists in all the leading furniture factories and large paint shops in the country. There exists a great deal of ignorance among the craft of the simplest principles of wood finishing. To all such, and also for those who forget and need a work of this kind as a manual of reference, this little volume will prove useful.

SYNCHRONOUS AND OTHER MULTIPLE TELEGRAPHS. By Albert Cushing Crehore, Ph.D. New York: McGraw Publishing Company, 1905. 8vo.; pp. 124. Price, \$2.

The subjects included in this book are divided into three parts. The first part is devoted to the general subject of methods of obtaining independent telegraph circuits by the use of direct and alternating currents on the same wire. The arrangements of circuits throughout the book, almost without exception, have been successfully operated either in the laboratory or under service conditions. Parts second and third relate to methods of obtaining circuits by means of the synchronous rotation of two bodies at distant points, the second part concerning the means of obtaining the synchronous rotation, and the third part the means by which the rotation may be utilized for securing independent telegraph circuits. The book is written to assist the reader to obtain a clear conception of the subject from a practical and experimental point of view.

PROCEEDINGS OF THE AMERICAN FOREST CONGRESS. American Forestry Association. Published for the Association by the H. M. Suter Publishing Company, Washington, D.C., 1905. 8vo.; pp. 474. Price, \$1.25.

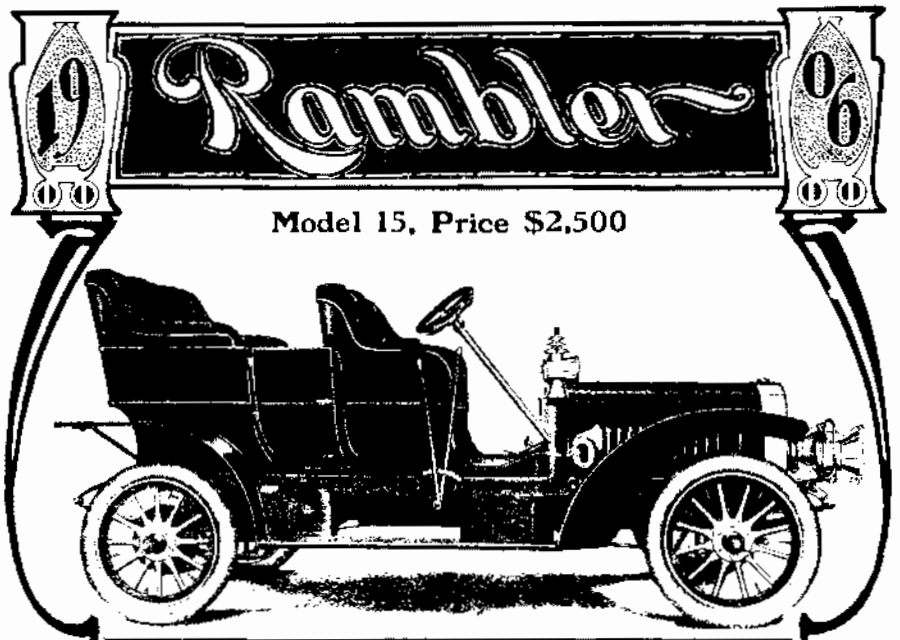
This book is a record of the meeting of the American Forest Congress, held in Washington, 1905, the object of the congress being to establish a broader understanding of the forest in its relation to the great industries depending upon it; to advance the conservative use of forest resources for both present and future needs of these industries, and to stimulate and unite all efforts to perpetuate the forest as a permanent resource of the nation. The volume is divided into seven parts, under the following heads: Forestry as a National Question; Importance of the Public Forest Lands to Irrigation; the Lumber Industry and the Forests; Importance of the Public Forest Lands to Grazing; Railroads in Relation to the Forest; Importance of Public Forest and Lands to Mining; National and State Forest Policy.

RAILWAY PROVIDENT INSTITUTIONS IN ENGLISH-SPEAKING COUNTRIES. By M. Riebenack. Philadelphia, Pa.: Pennsylvania Railroad Company, 1905. 8vo.; pp. 349.

This book, which is written by the Comptroller of the Pennsylvania Railroad Company, embodies the substance of two reports which the author submitted during the year 1904 to the International Commission of the International Railway Congress at Brussels for use at the session held at Washington May 3 to 13, 1905. It deals with most important economic conditions, and gives a mass of detail relative to insurance and relief provisions, hospital service, saving funds, co-operative capital stock purchasing schemes, Y. M. C. A. railway branches, literary study, etc. The book is a highly commendable one, and must have been a most difficult one to compile.

STEAM BOILERS: THEIR HISTORY AND DEVELOPMENT. By H. H. Powles, A.M.I.C.E., M.I.M.E. London: Archibald Constable & Co., Ltd. Philadelphia: J. B. Lippincott Company, 1905. 4to.; pp. 336, 15 plates. Price, \$6.50.

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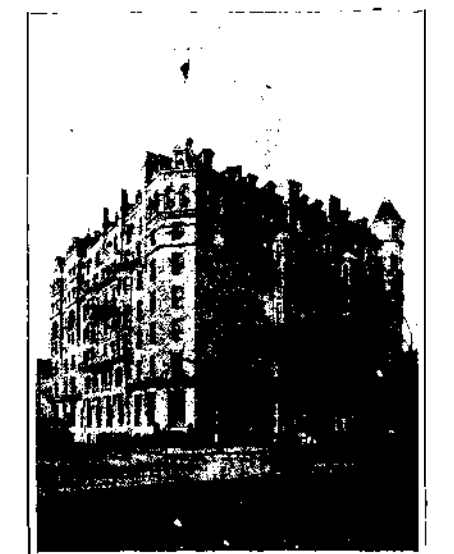
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THE COMMERCIAL TRAVELLER IN SOUTH AMERICA. By Frank Wiborg. New York: McClure, Phillips & Co., 1905. 12mo.; pp. 159. Price, \$1.

This book gives the experiences and impressions of an American business man on a trip through Panama, Ecuador, Chili, Peru, the Argentine Republic, and Brazil. The author met many business men in these countries, and had favorable opportunities to find out why so little of the South American trade comes to the United States instead of to foreign countries. The book is concisely written, and will doubtless convey to our manufacturers considerable information beneficial to them. It is illustrated by a number of half-tone plates and a map showing the route taken by the author.

INDEX OF INVENTIONS

For which Letters Patent of the

United States were Issued

for the Week Ending

January 16, 1906.

AND EACH BEARING THAT DATE

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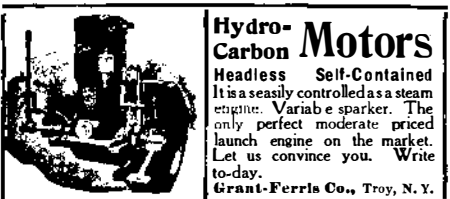
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