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M.S., C.E., M.M.E. New York: John Wiley & Sons. London: Chapman & Hall, Ltd. 1902. 8vo. Pp. xv. 562; 227 figures. Price \$4.

Since the appearance of the first edition of this book in 1895, the advances made in the art of heating and ventilation have been such that a thorough revision was found necessary. Three chapters have been added, one relating to the fan or blower, and another to the general subject of mechanical systems of heating and ventilating, and a third to schoolhouse heating and ventilating. The book probably describes the latest improvements in both heating and ventilating. Particularly meritorious features are the directions for the construction and installation of the various systems now in use.

THE MANUAL OF BUSINESS. By Sidney P. Johnston. Chicago: Daniel Stern. 1902. Pp. 263. 12mo. Price \$3.50.

In the main this book presents a mass of business information that is not usually included in the commercial writer and business handbook with which most of us are familiar. The book is not very well printed and has been carefully proofread.

AN INTRODUCTION TO CELESTIAL MECHANICS. By F. R. Moulton, Ph.D. New York: The Macmillan Company. London: Macmillan & Co., Ltd. 1902. Pp. xv, 384. Price \$3.50.

Dr. Moulton has prepared an admirable text book on a subject which most college students find peculiarly difficult. All problems are stated in advance and where the transformations are long an outline of the steps which are to be made is given. The volume is the outgrowth of a course of lectures given annually in the University of Chicago. Not the least valuable portion of the book is an introduction to the problem of three bodies.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending December 2, 1902, AND EACH BEARING THAT DATE.

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

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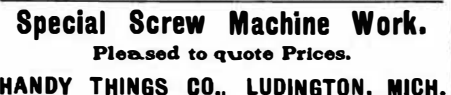
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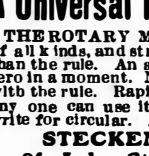


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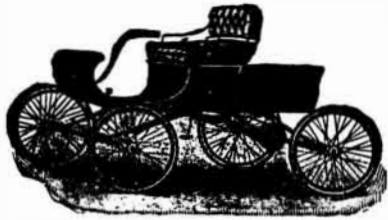
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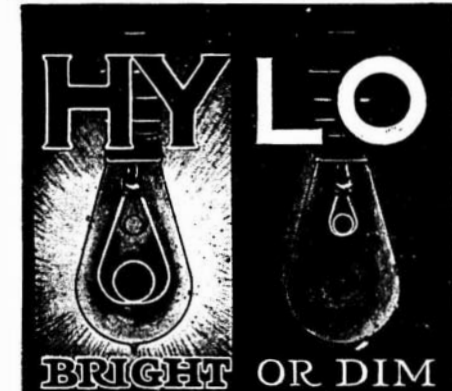
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