

U.S. ENTOMOLOGICAL COMMISSION BULLETIN, No. 6. GENERAL INDEX AND SUPPLEMENT TO THE NINE REPORTS ON THE INSECTS OF MISSOURI. By Charles V. Riley, M.A. Ph.D. Washington: Government Printing Office.

If Professor Riley could find time to extract from his Missouri reports the vast amount of information which they contain of value to all American farmers, gardeners, horticulturists, and students, it would make a volume or two well worth printing by the Department of Agriculture. It is for the general lack of just such information that noxious insects are allowed to multiply until their annual cost to the country is \$50,000,000 at the least calculation, and sometimes three or four times that amount.

ELEMENTS OF THE INTEGRAL CALCULUS, WITH A KEY TO THE SOLUTION OF DIFFERENTIAL EQUATIONS. By William Elwood Byerly. Boston: Ginn, Heath & Co. 8vo, cloth, pp. 76.

A sequel to Professor Byerly's work on the Differential Calculus, recently noticed, and, like it, is intended for use as a text book and not as an exhaustive treatise.

A PRACTICAL TREATISE ON HERNIA. By Joseph H. Warren, M.D. 2d edition. Boston: James R. Osgood & Co. 8vo, Illustrated. pp. 428.

A new introduction has been written for this edition, and six new chapters have been added. Though giving a valuable summary of the history and treatment of hernia from the earliest times, the main purpose of the work is to set forth the advantages of a cure for hernia, which at the author's hands has been eminently successful. The treatment is a modification of Professor Pancoast's, and consists chiefly in a subcutaneous injection of a stimulating fluid in such a manner as to cause an effusion of plastic lymph which binds together the ruptured tissues and effects a radical cure.

CELESTIAL OBJECTS FOR COMMON TELESCOPES. By Rev. T. W. Webb. New York: The Industrial Publication Company.

In this fourth edition of his well known handbook for the amateur astronomer Mr. Webb has presented much new matter, increasing the list of interesting and available objects by about 1,500. Our readers have been told how to make a serviceable telescope at small expense. With a home-made instrument (if a better cannot be afforded) and Mr. Webb's book the student need not lack for years of instructive and most enjoyable recreation.

REPORT OF THE COMMISSIONER OF EDUCATION FOR THE YEAR 1879. Washington: Government Printing Office. 1881.

A bulky volume of about a thousand pages of educational discussions, reports, statistics, etc., domestic and foreign. Detailed statistics are given of 48 schools of science endowed with the national land grant, and 34 unendowed schools and collegiate departments of science. The number of students of science was about 11,000. The schools of medicine of dentistry and of pharmacy number 114. The number of patents granted during the year for improvements in school furniture and appliances was 114.

THE LABOR QUESTION. By Amicus Humani Generis. Chicago: The Chicago Legal News Company. 12mo, cloth, pp. 186.

A book unskillfully written and badly printed. Had the author stuck to his text the effect would have been much better. To overweight a discussion of this nature with a "new theory of cosmogony" and disquisitions upon the beginning and ending of all things, the biblical story of creation and the like, all crudely conceived, is to disgust some readers and divert others from the real argument the author wishes to offer. He will find few to largely agree with him at the best (and we are certainly not of the number); yet the evident honesty of his thinking and the practical shrewdness and germinal value of some of his thoughts sufficiently attest his mission to speak and make one regret that he has not spoken more to the point.

THE GUN AND ITS DEVELOPMENT; WITH NOTES ON SHOOTING. By W. W. Greener. London and New York: Cassell, Petter, Galpin & Co.

Mr. Greener is well known to the American sportsman as a successful English inventor and manufacturer of sporting guns. Naturally he writes with English prejudices and with a somewhat exaggerated opinion of the contributions of English gunmakers toward the development of modern firearms. Nevertheless the author aims to be impartial, and has brought together much matter of interest to American as well as British sportsmen. The chapter on early firearms, though incomplete even with regard to English inventions, is instructive as well as entertaining. The publisher's part of the work is, as usual, admirably done.

REVISTA MARITIMA BRAZILIERA. Vol. I., Nos. 1 and 2. Rio de Janeiro. 1881.

The need of a journal to represent the interests of the navy in the great empire of Brazil having long been recognized, a monthly review with the above title has recently been started in Rio de Janeiro to supply the want, under the editorship of Lieut. Garces Palha. The first two numbers which have reached us present a very neat appearance, typographically considered, and the character of their contents appears to indicate that this new venture is destined to hold a rank in its particular field of journalism equal to that occupied by American, English, French, and Spanish journals devoted to the same specialty. We wish the Revista every success.

English Patents Issued to Americans. From October 21 to October 26, 1881, inclusive. Battery, secondary. T. A. Edison, Menlo Park, N. J. Berth, ship's, D. Parks, Boston, Mass. Dynamometer, Transmitting Dynamometer Company, New York city. Dynamo machines, T. A. Edison, Menlo Park, N. J.

Electric lamp, H. B. Sheridan, Cleveland, Ohio. Electricity, measurement of, T. A. Edison, Menlo Park, N. J. Firearm, Colt's Patent Firearm Manufacturing Company. Fireproof composition, C. C. Gilman. Hot blast apparatus, J. C. Long, Richmond Furnace, Pa. Life boat, A. Holmes, Petaluma, Cal. Lubricator, L. Bastel, Brooklyn, N. Y. Meter for measuring electric current, T. A. Edison, Menlo Park, N. J. Receiptacle, W. H. Miles, Jr., New York city. Steam boiler furnace, G. W. Clarke, San Francisco, Cal. Water closet, G. E. Waring, Jr., Newport, R. I.

[OFFICIAL.]

INDEX OF INVENTIONS FOR WHICH Letters Patent of the United States were Granted in the Week Ending October 25, 1881, AND EACH BEARING THAT DATE. [Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1836, will be furnished from this office for 25 cents. In ordering please state the number and date of the patent desired and remit to Munn & Co., 37 Park Row, New York city. We also furnish copies of patents granted prior to 1866; but at increased cost, as the specifications not being printed, must be copied by hand.

Table listing inventions and their patent numbers, including items like 'Adding machine, W. Perry', 'Air cooling apparatus, A. C. Garratt', 'Amalgamating apparatus, ore, M. P. Boss', etc.

Table listing inventions and their patent numbers, including items like 'Electric cable, J. B. Henck, Jr.', 'Electric machine, dynamo, L. G. Woolley', 'Electrical signaling apparatus, W. H. Shuey', etc.

Table listing inventions and their patent numbers, including items like 'Railway rails, clamping device for, G. Shatswell', 'Railway wire rope or cable, C. W. Rasmusen', 'Reaping machine, N. Green', etc.

DESIGNS.

Table listing designs and their numbers, including items like 'Badge, G. Munder', 'Carpet, M. R. Loudon', 'Comb, R. Butler', etc.

TRADE MARKS.

Table listing trade marks and their numbers, including items like 'Ale, pale, Bass, Ratcliff & Gretton', 'Ale, strong, Bass, Ratcliff & Gretton', 'Brandy, J. Hennessy & Co.', etc.