NEW BOOKS AND PUBLICATIONS.

AANSTAD'S FINANCIER'S LEDGER. A new system of keeping accounts with members of benficiary societies. By Ole O. Aanstad, Eau Claire, Wis.

This is a copyrighted book, sold at \$5, \$6, or \$7, ruled for a specially devised form of keeping assessments. dues, etc., of benevolent associations, lodges, etc. The author has had long experience with such societies as financier and bookkeeper, a d the system he has per-fected is designed to insure entire accuracy, be very convenient, and easily learned from the instructions and practical illustrations given in its first pages.

GESCHICHTE DER EXPLOSIVSTOFFE. Von S. J. von Romocki. I. Geschichte der Sprengstoffchemie, der Spreng technik und des Torpedowesens bis zum Beginn der neuesten Zeit. Ber-lin: Robert Oppenheim (Gustav Schmidt). 1895. Pp. 395. 8vo, illus-trated. Price 12 marks.

A very curious and interesting work on the hi tory of explosives and the tornedo. The book has a number of reproductions of rare old engravings and contains copious annotations and references to classical and medieval writers. It is the first volume of a series which will take the work up to the present time.

REPORT OF THE AMERICAN HUMANE ASSOCIATION ON VIVISECTION AND DISSECTION IN SCHOOLS. Chicago. 1895. Pp. 64. 16mo, pamphlet.

This booklet contains some startling facts regarding vivisection in schools. The statement that any such practice really existed met at first with general incredulity. Even if vivisection were rarely done, it seems almost improbable that children of public school age should be required to become famillar with the process of mutilation and the phenomena of death. The value of vivisection in medical schools must be admitted, but its use in ordinary schools cannot be condemned too strongly, The pamphlet contains the opinions of such well known people as D. G. Brinton, W. D. Howells, Dr. Morgan Dix, Cardinal Gibbons, W. W. Story and others.

- THE POCKET GOPHERS OF THE UNITED STATES. By Vernon Bailey. Washington: Bulletin No. 5 United States Department of Agriculture, Division of Ornithology and Mammology. 1895. Pp. 47. 8vo, pamphlet, plate, map.
- LA THERAPEUTIQUE DES TISSUS. Compendium des medications par les Extraits d'Organes animaux. By Dr. M. Bra. Paris : J. Rothschild. 1895. Pp. 624. 8vo, 72 engravings.

A work on medication by means of animal organic extracts according to the method of the late Dr, Brown Sequard.

L'INDUSTRIE CHIMIQUE. By A. Haller. Paris : J. B. Baillière et Fils. 1895. Pp. 346, 16mo.

This work is a reprint of Mr. Haller's report on the chemical and pharmaceutical products exhibited at the Columbian Exposition of 1893. It contains many out of the way facts about the manufacture and use of the rarer chemicals, essential oils, and other pharmaceutical products. The work is freely illustrated with graphic symbols.

CHURCHES AND CHAPELS. Designs and suggestions for church building com-mittees, architects and builders. By F. E. Kidder, Ph.D., architect. New York : William T. Comstock. 1895. Oblong octavo, cloth. Pp. 55, 52 illustrations. Price \$1.50.

In this work the author has chosen a subject that has not been written upon for a number of years, and we believe this is the only book of its kind treating on modern church building. We believe the book will be found very useful to architects. Church building committees will find the floor, plans of great assistance in deciding upon the best arrangement for their especial needs Nineteen designs, illustrated by forty-six drawings and half tones and embracing almost every approved arrangement for modern churches, are given, and the larger proportion of the designs have been executed from the author's plans. Besides these designs the author has given much practical information on the construction and roofing of churches, planning and seating, windows, bells, etc., and several pages on acoustics, heating, and ventilation.

SCREW PROPELLERS AND MARINE PRO-PULSION. By I. McKim Chase, M.E. New York : John Wiley & Sons. 1895. Pp. 223, xxxi. 8vo. plates. tables.

COLOR IN THE KINDERGARTEN. By Milton Bradley. Springfield, Mass. : The Milton Bradley Company. Pp. 57. 12mo, illustrated. Price 25 cents.

- COLOR IN THE SCHOOL ROOM. A manual for teachers. By Milton Bradley. Springfield, Mass.: The Milton Bradley Company. Pp. 107. 12mo, samples cf colored papers bound in. Price \$1.
- ELEMENTARY COLOR. By Milton Bradley. Pp. 128. 12mo, 64 illustrations, colored plate. Price 75 cents.

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SCIENTIFIC AMERICAN BUILDING EDITION.

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- 2. A handsome residence at Glenwood, N.Y., recently erected for Wm. R. Innis, Esq. Two perspective elevations and floor plans. An attractive design.
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- 4. A summer cottage at Great Diamond Island, Me., recently erected for Edward L. Goding, Esq. Two perspective elevations and floor plans. Cost \$2,500 complete. A picturesque design. Mr. A. Dortlcos, architect.
- 5. An attractive dwelling at Oakwood, Staten Island, recently erected for Mrs. Margaret Dutche. Cost \$3,800 complete. Two perspective elevations and floor plans. Architect, Mr. Herman Fritz, Jr., Passaic, N. J.
- 6. A Colonial dwelling at Springfield, Mass., erected for Messrs. J. D. and W. H. McKnight, at a cost of \$6,000 complete. Two perspective elevations and floor plans. A pleasing design. Architect, Mr. G. Wood Taylor, Boston, Mass.
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(6568) W. A. J. asks how to weld tortoise shell. A. Small pieces of good tortoise shell may be joined so as to form one large apparently seamless piece in the following manner : Slope off the margins of the shells for a distance of about 1/4 of an inch from the edge. Then place them so that the margins overlap one another; and thus arranged put them in an iron press and immerse in boiling water for some time. The pieces by this means become so perfectly united that the joint cannot be seen. The filings and very small scraps may be softened in hot water and consolidated by hydraulic pressure in metal moulds. Protracted heating of tortoise shell darkens it, and greatly lessens its beauty.

(6569) R. A. McE. says: Can you give the formula for Luning's colorless varnish ? A. Dissolve 21/2 ounces of shellac in 1 pint 90 per cent alcohol, boil a few minutes with 5 ounces of well burnt and recently heated animal charcoal. A small portion of the solution should then be filtered, and if not colorless. more charcoal must be added. When all color us re moved press the liquor through a piece of silk, and afterward filter through fine blotting paper. This kind of varnish should be used in a room at least do° Fah., perfectly free from dust. It dries in a few minutes, and is not liable afterward to chill or bloom. It is particularly applicable to drawings and prints that have been sized and may be advantageously used upon oil paintings which are thoroughly hard and dry, as it brings out the colors with the purest effect. This quality prevents it from obscuring gilding, and renders it a valuable varnish for all kinds of leather, as it does not yield to the warmth of the hand and resists damp, which subjects eather to mildew Its useful applicati are v deed to all the purposes of the best hard spirit varnish (6570) C. H. M. says: Please state through your paper what is the best cement for fastening rubber to smooth iron surfaces. A. Powdered shellac is softened in ten times its weight of strong water of ammonia, whereby a transparent mass is obtained, which becomes fluid after keeping some little time without the use of hot water. In three or four weeks the mixtore is perfectly liquid, and, when applied, it will be found to soften the rubber. As soon as the ammonia evaporates the rubber hardens again-it is said, quite firmly-and thus becomes impervious both to gases and to liquids. For cementing sheet rubber, or rubber material in any shape, to metal, glass, and other smooth surfaces, the cement is highly recommended. (6571) R. J. C. says: Can you inform me how to restore crushed and bent feathers, also directions for cleansing them? A. To restore when feathers are bent and out of curl, they should be exposed to steam. or else put in boiling water for one minute, when they should be taken out and laid in temperate water for some time. For directions for cleaning feathers see our Scientific American Cyclopedia of Receipts, Notes and Querles."

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July 2, 1895,

AND EACH BEARING THAT DATE.

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