Publications received at Editor's Office,

Nov. 25-30.

BAGEHOT, Walter, The Works of. Ed. by Forrest Morgan. 5 vols. Hartford. Conn., Travelers Ins. Co. 2625 p. 8°.

BECKER, G. F. Geology of the Quicksilver Deposits of the Pacific Slope, with an Atlas. Washington, Government. 486 p. 4°.

CHURCH, A. J. The Story of Early Britain. New York, Putnam; London, T. Fisher Unwin. 382 p. 12°.

HUBERT, P. G., jun. Liberty and a Living. New York

Hubert, P. G., jun. Liberty and a Living. New York and London, Putnam. 23 pp. 166. St.

Jacous, H. B., and Brower, A. L. The Graphic System of Object Drawing. Nos. 1-4. New York, A. Lovell & Co. 92 p. 7 by 8% inches.

—Same. Nos. 5 and 6. New York, A. Lovell & Co. 43 p. 04 by 11% inches.

—Hand-Book to accompany The Graphic System of Object Drawing. New York, A. Lovell & Co. 50 p.

— Notes to accompany Books 5 and 6 of The Graphic System of Object Drawing. New York, A Lovell & Co, 11 р. 12°.

Newberky, J. S. Fossil Fishes and Fo sil Plants of the Triassic Rocks of New Jersey and the Connecticut Valley. Washington, Government. 152 р. 4°.

Poyser, A. W. Magnetism and Electricity. London and New York, Longmans, Green, & Co. 247 р. 12°. 80 cents.

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RICKS, G. Natural History Object Lessons. Boston, Heath. 352 p. 12°. \$1.35.

RIPPER, W. Steam. London and New York, Longmans, Green. & Co. 202 p. 12°. 80 cents.

TABER, C. A. M. Winds, Ocean Currents, and Ice Periods. Boston, G. H. Ellis. 86 p. 12°.

U. S. ARMY. Annual Report of the Chief of Engineers, 1889. Washington, Government. 429 p. 8°.

WRIGHT, M. R. Elementary Physics. London and New York, Longmans, Green, & Co. 248 p. 12°. 80 cents.

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Montclair, N. J., Nov. 22.

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Minneapolis, Nov. 18.

#### INDUSTRIAL NOTES.

#### Elektron Manufacturing Company.

A FEW weeks ago fire destroyed the factory of the Elektron Manufacturing Company of Brooklyn, whose Perret motors and dynamos were described in Science recently. The company at once secured a larger factory, at 79 and 81 Washington Street, near the bridge, equipped it with a complete installation of special tools and machinery, and are doing their best to catch up with their orders, which had fallen far behind during their enforced idle-

#### Electrical Accumulators.

In the suit of The Electrical Accumulator Company vs. The Gibson Electric Company in the United States Circuit Court for the Southern District of New York, which was instituted in February last, the complainants have recently moved for a preliminary injunction, and Judge Lacombe on Friday last granted the motion, and the injunction issued. The complainants' testimony shows conclusively that the Gibson Company have continuously infringed the Faure patent, and that their various modifications are infringements.

#### CALENDAR OF SOCIETIES.

#### Biological Society, Washington.

Nov. 30. - Theobald Smith, Preliminary Observations on the Micro-organisms of Texas Fever: D. E. Salmon, General Remarks on Texas Fever, illustrated by Lantern-Slides; C. D. Walcott, Description of a New Genus and Species of Inarticulate Brachiopod from the Trenton Limestone; Frank Baker, An Undescribed Muscle of the Infraclavicular Region in Man.

## Engineers' Club, Philadelphia.

Nov. 16. - Mr. William B. Spence exhibited a working model of the Rimmer oxidizer, a filtering-material, which he described, and for which he made various claims as to its utility in the purification of water by oxidation. He stated that the material used is an English invention, and that it is known as "magnetic carbide of iron." It consists of a mixture of granulated iron ore and carbon. The iron ore is said to be cleaned of all natural impurities by a patented process. It is then chemically treated at a certain temperature. It is claimed that this material will absorb and retain a large quantity of oxygen from the atmosphere. In use it is charged daily with atmospheric air, when, it is claimed, a re-action takes place with the impurities which have accumulated in the filtering material, and that the result passes off in the form of gas. It is claimed that metals in solution in the water will form insoluble oxides. The upper layer of the filtering plant consists of sand, for the removal of suspended matter by mechanical filtration, and the lower layer of the material above described for the chemical removal of that sewer-pipe, while admirably adapted for both vegetable and animal organic impurities and metallic contaminations are entirely removed by this process. The following pipe which had been condemned for heavy

tests were made in the presence of the meeting. The filtering materials were contained in a large glass funnel. Water, as muddy as that of the Schuylkill River during freshets, was made apparently perfectly clear. A solution of sulphate of iron in water was made, and a portion thereof passed through the filter. The unfiltered and filtered portions were then tested with ferrocyanide of potassium. The former showed a distinct blue tint, while the latter remained perfectly clear, showing the elimination of the iron. Lead and copper tests seemed to show the same results. To illustrate the destruction of organic matter, sulphide of ammonia, sulphide of iron, and acetate of lead were added to water, making a compound which was almost black, and of strong and unpleasant odor. After filtration, it was clear, and tests seemed to fail to discover any trace of the impurities. A mixture of copying-ink and water was passed through the filter with the same results.

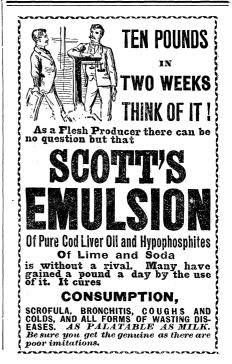
# Boston Society of Natural History.

Dec. 4. — R. T. Jackson, Certain Points in the Development of the Mollusca; J. Walter Fewkes, A Remarkable Instance of Rock Excavation by Sea-Urchins.

#### Engineers' Club, St. Louis.

Nov. 20. — Mr. Robert Moore addressed the club on the subject of "Railway Culverts." This question was usually given too little attention. The speaker described the various forms of culverts used, with the advantages and disadvantages of each, also stated the methods of determining the size and best mode of construction. He stated impurities in solution. It is claimed that small culverts, should not be used over fifteen inches in diameter. For larger sizes, cast-iron pipe answered well.

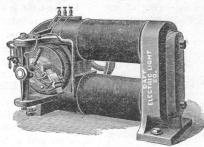
pressures was being largely used for this purpose. Mr. Moore also presented a diagram, based on Kutter's formula, using a value of 17 for n, bearing in mind that one inch of rainfall per hour is equivalent to one cubic foot per acre per second. In the discussion, Mr. Ferguson described a number of practical points of difficulty he had met with. The discussion was also participated in by Messrs. J. A. and W. L. Seddon, M. L. Holman, and A. W. Hubbard. Mr. Holman stated that iron pipe for this purpose was being made as large as six feet in diameter and ten feet long, being lighter and of poorer quality than the pipe used for waterservice.



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Any one who has a botanical box in good condition wil please write. I will offer about 30 specimens in exchange. — C. B. Haskell, Box 826, Kennebunk, Me. Lead, zinc, mundic, and calcite. — Lulu Hay, secretary Chapter 350, Carthage, Mo.

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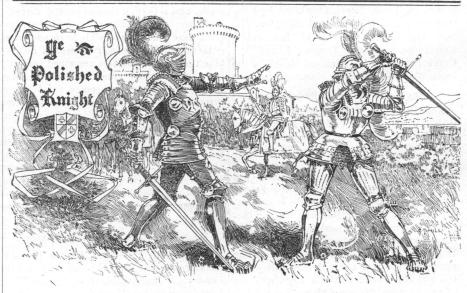
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