

## NUMBER CXXXV.

	Page
ART. XIV.—Color Correction of double Objectives; by C. S. HASTINGS, .....	167
XV.—To Cut a Millimeter Screw; by C. K. WEAD, .....	176
XVI.—Gold-bearing Rocks of the Province of Minas Geraes, Brazil; by O. A. DERBY, .....	178
XVII.—The Flood of the Connecticut River Valley from the melting of the Quaternary Glacier; by J. D. DANA. With Plate II, .....	179
XVIII.—Geographical Distribution of certain Fresh-water Mollusks of North America, and the probable causes of their Variation; by A. G. WETHERBY, .....	203
XIX.—Description of a New Genus of the Order Eurypterida from the Utica Slate; by C. D. WALCOTT, .....	213
XX.—Notice of the remarkable Marine Fauna occupying the outer banks off the Southern coast of New England, No. 4; by A. E. VERRILL, .....	216
XXI.—A new form of Reversible Stereoscope; by W. L. STEVENS, .....	226
XXII.—Magnetic Properties of a Specimen of Nickeliferous Iron from St. Catarina, Brazil, with a note by J. Lawrence Smith; by H. BECQUEREL, .....	229
XXIII.—Origin of Jointed Structure in undisturbed Clay and Marl deposits; by J. LECONTE, .....	233

## SCIENTIFIC INTELLIGENCE.

- Chemistry and Physics.*—Relation between the Optical and Thermal phenomena of Liquid Organic substances, BRÜHL, 234.—Simple Dissociation Apparatus, TOMMASI, 235.—Effect of Oxides on the Decomposition of Potassium Chlorate, MILLS and DONALD: Freezing point of Sulphuric acid of different degrees of concentration, LUNGE, 236.—Action of Water on Bismuthous iodide as illustrating Chemical change, P. MUIR: Splitting of Petroleum hydrocarbons at low Temperatures, GUSTAVSON, 237.—Occurrence of Metaisocymene in Rosin oil, KELBE: Aldehyde-nature of living Protoplasm, LOEW and BOKORNY, 238.—Viscosity of Gases at high exhaustions, 239.—Contributions to the Theory of Electro-magnetism: Disintegration of Electrodes by Positive Electricity, REITLINGER and WÄCHTER: Upper limit for the Kinetic Energy of moved Electricity, MAXWELL, 240.—Electrical Units recommended by the Electrical Congress of 1881: Lessons in Electricity and Magnetism, S. P. THOMPSON, 241.
- Geology.*—Glacial Erosion in Maine, G. H. STONE: Glacial phenomena on the Delaware, G. F. WRIGHT, 242.—Jura-Trias in Colorado, R. C. HILLS, 243.
- Botany and Zoology.*—Notes on Gramineæ, G. BENTHAM: Flora Brasiliensis, 244.—Diagnoses Plantarum novarum Asiaticarum, C. J. MAXIMOWICZ: Power possessed by Leaves of placing themselves at right-angles to the direction of Incident Light, F. DARWIN, 245.—The Botanical Collector's Handbook, W. W. BAILEY, 246.—The Greenland Flora: A Memoir on the Echinodermata of the Arctic Sea, P. M. DUNCAN and W. P. SLADEN, 247.—Discovery of a rare fresh-water shell (Gundlachia) in western New York, J. M. COOKE, 248.
- Miscellaneous Scientific Intelligence.*—Minor Planets: Hailstorms, J. A. B. OLIVER, 249.—Schott's Tables and Results of the Precipitation in Rain and Snow in the United States: Boston City Water, I. REMSEN: The Lalande Astronomical Prize: La Lumière Électrique: Cosmos-Les-Mondes, 250.