

SCIENTIFIC MISCELLANY.

A NEWLY RECOGNIZED LAW.—Sir William R. Grove has supplemented his familiar doctrine of the mutual convertibility of the natural forces, first announced in 1842, by the principle of "antagonism." This is traced throughout the natural universe, not as the baneful thing which many deem it, but as a necessity of existence and of the organism of the universe, producing at least as much good as evil.

AN IMPRACTICABLE PROJECT.—An engineering writer illustrates by a rough calculation the expense of removing snow from streets by melting with artificial heat. Steam at 212 degrees is the most effective agent for applying the heat.

BASE-BALL SCIENCE.—Lovers of base ball may find it convenient to keep in mind this explanation of the pitcher's curve from Mr. R. A. Proctor: If the ball is advancing without spin, or is spinning on an axis lying along its course, the cushion of compressed air carried forward by it is conical—or rather conoidal—and therefore resists the progress of the ball equally on all sides, affecting only the velocity.

COLORING METALS.—By means of a bath consisting of 300 grains of acetate of lead, 600 grains of hyposulphite of soda and one quart of water, it is said that eleven different colors may be imparted to well-cleaned copper, and eight to nickel plated objects.

Where Will Discoveries Cease?—Whether all science has limits, so that at the present rate of progress all discoverable things may have become known, a few generations hence, is a question that must have been suggested to many.

Whether all science has limits, so that at the present rate of progress all discoverable things may have become known, a few generations hence, is a question that must have been suggested to many. Concerning the future of systematic chemistry, Dr. Edward Schunk has concluded that in the course of time this prolific field of to-day will be worked out.

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N. W. HIESTAND, Echo, Oregon. DEALER IN Gen. Merchandise Pendleton Roller Mills Flour. STORAGE and FORWARDING

Protection or Tariff Reform.

Beyond question, the Tariff is the issue on which the coming campaign will be fought, and it involves every citizen who would vote intelligently to inform himself upon a subject which so closely affects his temporal welfare.

GEN. LIEB'S BOOK, The Protective Tariff. WHAT IT DOES FOR US.

Readers what is usually considered a most abstruse subject easy of comprehension. It will serve as a Tariff primer for the learner as well as a text-book for the learned. This book shows the practical effect of the Protective System upon the country. Perhaps the most conspicuous feature of the book is its exact alignment with the message of President Cleveland.

The position of Mr. Balguy's "Twenty Years in Congress" is taken up, his assertions upon the Tariff analyzed, criticized and made to furnish their own refutation.

INDORSEMENT: The form as well as the substance of the book is most admirable, and I have seen nothing surpassing it for use in the great work of spreading the truth among the people. DON M. DICKINSON, Postmaster General.

It is an able and logical exposition of the injustice and delusions of the protective theory. The work is timely, and a very valuable contribution to the literature of Tariff reform. R. W. TOWNSEND, M. C.

I notice that this book is receiving great commendation. It is bottomed upon fundamental truths, and I wish that the facts and arguments may be in the hands and minds of every citizen called upon this year to vote upon the great economical questions of surplus and tariff. GEN. JOHN C. BLACK, Commissioner of Pensions.

We take pleasure in giving this work our hearty indorsement, and recommend that local committees and clubs assist in extending its circulation among the voters of Illinois. STATE DEMOCRATIC CENTRAL COMMITTEE OF ILLINOIS.

And many others.

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