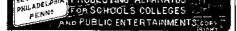
Scientific American.





24 CHESTNUT

ILADELPHIA

-FHRST CLASS

PROJECTING - APPARATUS



MESSRS. MUNN & CO., in connection with the publi-cation of the SCIENTIFIC AMERICAN, continue to ex-amine improvements, and to act as Solicitors of Patents

amine improvements, and to act as Solicitors of Patents for laventors. In this line of business they have had forty one year: experience, and now have unequality facilities for the preparation of Patent Drawings, Specifications, and the prosecution of Applications for Patents in the United States, Canada, and Foreign Countries. Messrs Munn & Co. also attend to the preparation of Caveats, Copyrights on Infringements of Patents. All business intrusted to them is done with special care and promptness, on very reasonable terms A pamphlet sent free of charge, on application, con-taining full information about Patents and how to pro-cure them; directions concerning Labels, Copyrights, Designs, Patents, Appeals, Reissues, Infringements, As-tents, etc.

signments, Rejected Cases, Hints on the Sale of Pa-tents, etc. We also send, *irree of charge*, a Synopsis of Foreign Pa-tent Laws, showing the cost and method of securing patents in all the principal countries of the world. MUNN & CO., Solicitors of Patents,

361 Broadway, New York. BRANCH OFFICES.-No. 622 and 634 F Street, Pa-cific Building, near 7th Street, Washington, D. C.

workers of wood of we lack can bid lower, and save more money from their josk, than by any other means for doing their work. Also for Industrial Schools or Home Training. With them boys can acquire practical jour-neymen's trades before they "go for them-selves." Price-List Catalogue Pree. W. F. & JOHN BARNES CO.,

WORKERS OF WOOD OR METAL,

No. 1999 .... Ruby St., Bockford, IlL.

ELECTRICAL STRESS.-AN INTER esting paper by Prof. A. W. Rucker, on the stresses that exist in a dielectric between conductors of different potentials. With 9 figures. Contained in SCIENTIFIC AMERICAN SUPPLYMENT, No. 646. Price 10 cents. To be had at this office and from all newsdealers.



PHTHISIS.—A PAPER BY DR. H. C. Wood, describing in detail the new treatment of con-sumption by sulphureted hydrogen. Contained in SCI-ENTIFIC AMERICAN SUPPLEMENT, NO. 594. Price 10 cents. To be had at this office and from all newsdealers.



THE SCIENTIFIC AMERICAN ARCHITECTS' AND BUILDERS' EDITION is issued monthly. \$2.50 a year. Single copies, 25 cents. Forty large quarto pages, equal to about two bundred ordinary book pages; forming a largé and splendid Magazine of Architecture, richly adorned with elegant plates in colors, and with other fine engravings; illustrating the most interesting ex-amples of modern Architectural Construction and allied subjects.

Building Edition.

A special feature is the presentation in each number of a variety of the latest and best plans for private residences, city and country, including those of very moderatecost as well as the more expensive. Drawings in perspective and in color are given, together with full Plans, Specifications, Sheets of Details, Estimates, etc. The elegance and cheapness of this magnificent work have won for it the Largest Circulation of any Architectural publication in the world. Sold by al newsdealers. \$2.50 a year. Remit to

MUNN & CO., Publishers, 361 Broadway, New York.

Toledo, Ohio. Send for our si-page free list, also PRINTING INKS, THE "Scientific American" is printed with CHAS. THE "Scientific American" is printed with CHAS. TENEU JOHNSON & CO.'S INK. Tenth and Lom-bard Sta., Phila., and 47 Rose St., opp, Duane St., N.Y.