

MESSRS. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN, continue to examine improvements, and to act as. Solicitors of Patents for Inventors.

in this line of busin easthey have had forty-one years experience, and now have unequaled 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 for Books, Labels, Reissues. Assignments, and Reports on Infringements of Patents. All business intrusted to them is done with special care and promptness, on very reasonable terms

A pamphet 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-signments, Rejected Cases, Hints on the Sale of Pa-tents, etc.

We also send, *free 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 624 F Street, Pa-sife Building, near 7th Street, Washington, D. C.



FIRE-PROOF_ MHIS is the perfected form of portable Roofing, manufactured by us for the past twenty-seven years, and is now in use upon roofs of Factories, Foundries, Cotton Gins, Chemical Works, Railroad Bridges, Cars, Steamboat Decks, etc., in all parts of the world.

Supplied ready for use, in rolls containing 200 square feet, and weighs with Asbestos Roof Coating, about 85 pounds to 100 square feet. Is adapted for all climates and can be readily applied by unskilled Samples and Descriptive Price List free by mail. workmen.

H. W. JOHNS MANUFACTURING CO..

SOLE MANUFACTURERS OF H.W. Johns' Fire and Water-Proof Asbestos Sheathing, Building Felt, Asbestos Steam Packings, Boiler Coverings, Liquid Paints, Fire-Proof Paints, etc. VULCABESTON, Moulded Piston-Red Packing, Rings, Gaskets, Sheet Packing, etc. Established 1858. 87 MAIDEN LANE, NEW YORK. CHICAGE. PHILADELPHIA.

and described in the SUPPLEMENT.

Price for the SUPPLEMENT for the United States and Canada, \$5.00 a year, or one copy of the SCIENTIFIC AM-ENICAN and one copy of the SUPPLEMENT, both mailed for one year for \$7.00. Address and remit by postal order, express money order, or check.

MUNN & Co., 361 Broadway, N. Y., Publishers SCIENTIFIC AMERICAN.

To Foreign Subscribers. - Under the facilities of the Postal Union, the SCIENTIFIC AMERICAN is at west by post direct from New York, with regularity, to subscribers in Great Britain India, Australia, and all other British colonies; to France, Austria, Belgium, Germany, Russia, and all other European States ; Japan, Brazil. Mexico, and all States of Central and South America. Terms, when sent to foreign countries, Canada excepted. \$4. gold. for SCIENTIFIC AMERICAN, one year; \$9, gold for both SCIENTIFIC AMERICAN and SUPPLEMENT for one year. This includes postage, which we pay. Remit by postal or express money order, or draft to order of MUNN & CO., 361 Broadway, New York.

PRINTING INKS, THE "Scientific American" is printed with CHAS, ENEU JOHNSON & CO.'S INK. Tenth and Lom-bard Sts., Phila, and 47 Rose St., pop. Duane St., N.Y.