

TO CORRESPONDENTS.

S. G. B., of Ohio.—Your plans are wholly futile and worthless. We advise you to abandon them entirely.
J. P. D., of Pa.—You had better send us your model with a full description, and we then can give you correct advice.
L. W., of Vt.—The lead inside of your pipe is an oxide, and a poison.

G. S., of Pa.—Your sketches show both fans running in the same manner, a mistake on your part.
Wm. Ferrel, Mount Holly, N. J., wishes to know where Gray's Patent Hay Scales are manufactured.
C. M. S., of Mass.—Such ideas as you have in regard to inventions, you should develop before offering them for examination.

ADVERTISEMENTS.

Table with 2 columns: Terms of Advertising, Price. 4 lines, for each insertion, 75 cts; 8 lines, 1 50; 12 lines, 2 25; 16 lines, 3 00.

American and Foreign Patent Agency.

IMPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms.

\$1000 CHALLENGE!

Open to all now engaged in manufacturing Spark Arresters. Sweet, Thompson & Co., manufacturers of Spark Arresters for Locomotives, patented October 25, 1853, challenges without reservation any builder of Spark Arresters for \$1,000, to furnish on trial as perfect an instrument as they are now offering to Railroad Companies.

THE SUBSCRIBER IS AGENT FOR THE SALE OF A NEW PATENT...

CUPPER'S STAIR-BUILDER'S GUIDE.

Theoretical and practical Architectural work for sale, with remainder of the edition on hand. Any person wishing to devote his time and attention to the sale of this book, might realize a handsome fortune.

NOVA SCOTIA AND NEW BRUNSWICK PATENTS.

The undersigned will procure Letters Patent for the Provinces of Nova Scotia and New Brunswick, and will promptly forward all information relative to such matter, upon the receipt of a reasonable fee.

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers and machinery of every description.

HUDSON MACHINE WORKS and Iron Foundry

at Hudson City, N. Y., are prepared to contract for castings for railroads, bridges, buildings, gas pipes and posts, water pipes, cast-iron ornamental floors, cannon, &c. Steam engines and boilers, high and low pressure, sugar mills, Cornish lifting and forcing pumps for mines, also superior hydraulic pumps and presses, and superior machinists' tools made to order.

BLACK LEAD CRUCIBLES.—Of superior quality.

POLYTECHNIC COLLEGE.—Of the State of Pennsylvania, south-west corner of Market st. and west Penn Square, Philadelphia.

GIVE INTELLIGIBLE DIRECTIONS.—We often receive letters with money enclosed, requesting the paper sent for the amount of the enclosure, but no name of State given, and often with the name of the post-office also omitted.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within fourteen years, can obtain a copy by addressing a letter to this office, stating the name of the patentee, and enclosing \$1 for fees for copying.

MACHINERY.—S. C. HILLS, No. 12 Platt-st., N. Y.

SOAP STONE.—An extensive strata of fine Soap Stone, or what is more commonly known as French chalk, is for sale, cheap.

MATHEMATICAL OPTICAL INSTRUMENTS.

The subscriber begs leave to bring to the notice of the professional community, his new and extensive assortment of the above instruments, which he partly imported direct from the most celebrated makers in Europe and partly had manufactured under his own personal supervision.

AMERICAN ENGINEERS ASSISTANT.—Lately published.—The American Engineer, Draftsman and Machinist's Assistant, designed for Practical Working-men, Apprentices, and those intended for the Engineering profession, illustrated with 200 wood cuts, and 14 large engraved Lithographic Plates, of recently constructed American Machinery and Engine Work.

WATTS, BELCHER & CO.—Machinists, Manufacturers of Steam Engines, Lathes, Planing Machines, and Machinists' Tools of all descriptions.

COCHRAN'S QUARTZ CRUSHER.—These machines having proved by practical operation at various gold mines their superiority over all others, for pulverizing Quartz Rock, are recommended with confidence to parties in want of such machinery.

EUREKA GOLD SEPARATOR.—This machine has been thoroughly tested by scientific and practical gold miners, and pronounced far superior to any Analgamator yet known.

THE NEW HAVEN MANUFACTURING CO.—New Haven, Conn., having purchased the entire right of E. Harrison's Flour and Grain Mill, for the United States and Territories, for the term of five years, are prepared to furnish said mills at short notice.

NEW HAVEN MANUFACTURING COMPANY.—Tool Builders, New Haven, Conn., (successors to Scranton & Parshey) have now on hand \$25,000 worth of Machinists' Tools, consisting of power lathes, to plane from 5 to 12 feet; slide lathes from 6 to 18 feet long.

PLANNING, TONGUING, AND GROOVING.—BEARDSLEE'S PATENT.—Practical operation of these Machines throughout every portion of the United States, in working all kinds of wood, has proved them to be superior to any and all others.

PARSONS' SELF-STRAINING SAW.—Requires only ten pounds weight to strain it, and combines the advantages of both muley and gate or sash mills.

PATENTS OF INVENTION.—ISAAC B. FULTVOYE, Patent Agent, Quebec, undertakes to procure letters patent of invention for the Province of Canada.

CHANCE TO MAKE MONEY.—Agents will find a profitable employment in selling a valuable invention, by calling on Geo. O'DONNELL, 305 Pearl st., N. Y.

A. B. ELY, Counselor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refers to Messrs Munn & Co., Scientific American.

LEONARD'S MACHINERY DEPOT, 109, Pearl St., and 89 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers.

LOGAN, VAIL & CO., No. 9 Gold st., New York.—Agency for Geo. Vail & Co., Speedwell Iron Works, Morristown, N. J., furnish and keep on hand Portable Steam Engines of various sizes, Saw and Grinding Mills, Hotchkiss' Water Wheels, Iron Water Wheels of any size, Portable Saw Mills, complete; Bogardus's celebrated Planetary Horse Powers; heating forgings and castings for steamboats and rolling mills.

MALLISTER & BROTHER.—Opticians and Dealers in mathematical instruments, 43 Chestnut st., Philadelphia, Pa. Mathematical instruments separate and in cases, Protractors, Spacing Dividers, Drawing Pens, Ivory Scales, Tape Measures, Salometers, Spy Glasses, Microscopes, Hygrometers, &c. An illustrated and priced catalogue will be sent by mail free of charge.

NORRIS WORKS, Norristown, Pa. The subscribers build and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every description.

AARON KILBORN, No. 4 Howard street, New Haven, Ct., manufacturer of Steam Engines, Boilers, &c. Noiseless Fan Blower, a superior article, for smith's work, steam engines, brass and iron founders, and machinery in general.

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines.—The best in use, and applicable alike to thick and thin staves, for barrels, hogheads, &c.; also his Head Cutting and Turning, and Stave Jointing and Crozing Machines.