

TO CORRESPONDENTS.

W. B. G., of N. Y.—Your duck's-foot propeller will never answer so good a purpose as the common screw.

C. E. W.—We think your rock drill is patentable, but fear it would not work well. The pistons could be worked to better advantage with springs.

W. R. C.—Curved cutters for tenoning, similar to yours, are used in this city. Your improvement is not patentable.

J. A. R., of Mass.—We think we could have your caveat fee applied towards your new machine. No money is ever refunded on caveats.

Warren Gale, patentee of a Straw Cutter, will very much oblige us by communicating his whereabouts to this office.

D. B. C., of N. Y.—Paddle wheel buckets, placed at an angle as you propose, have been applied to paddle wheels many years ago.

H. B. F., of N. Y.—Your churn is very old and not patentable.

N. C. P., of N. H.—Your board cutter is not new; round disk knives have long been known.

A. H., of Va.—You will find a full description of the method of preserving meats and vegetables on page 325, Vol. 7, Sci. Am.

J. J. Y., of Ky.—There is no such filter patented as the one to which you refer. You can make one yourself by allowing the rain to fall upon cotton cloth, then through charcoal and clean sand into the cistern; make it large and wash the cloth frequently; it only requires a wooden box for the purpose.

G. W. S., of N. S.—Yours will be published next week.

C. D. C., of Va.—Your invention is identical in principle with the water wheel which drives a force pump, and thus rotates water enough to keep the wheel in motion in other words it is a perpetual motion.

J. B., of —Spirally grooved bullets, like those you describe, are not new. They were proposed several years since in England, and the plan has several times been submitted to us.

C. W. S., of Ohio—Your excellent article on Coach Painting has been delayed until next week.

M. B., of Ky.—When you can demonstrate the question so easily, you do not require to ask our opinion. Set up a scantling on a pivot and balance it; then place 50 lbs. stone end and 100 lbs. at the other, and advance the latter towards the fulcrum until the less balances the greater, and you will have a solution to your question.

G. E., of N. Y.—Your plan of sounding the Niagara river appears feasible.

E. W., of Ind.—The dyers here find no difficulty in making sulphate of indigo with common vitriol, and Bengal indigo, if the vitriol is new and fresh, but not when it is old and has been exposed to the air. We cannot understand how you have failed to make it, and that it would not mix with hot or cold water. American vitriol makes as good chemic as any other.

J. E. H., of Ohio—Yours will appear next week.

S. A. M., of N. Y.—Your inquiries will be answered when you give us your name and number—not before. You had better bring your model to our office yourself as you reside in the city.

A correspondent, who signs himself "An Old Inventor," desires us to send him a circular of information relative to patents. He gives no name or residence, and therefore we cannot comply with his wishes.

R. McG., of Geo.—The subject of steam is one of continual growing importance. Great improvements will no doubt yet be made in the saving of fuel. Perseverers with your experiments.

G. H., of Pa.—A combination of oil, charcoal, and shavings, for kindling, would not be patentable.

B. A., of Ind.—Petition and \$1 dollar received. All right.

N. C., of Ohio—The idea of shutting the throttle instantly on the bursting of a pipe, could not be patented. Your arrangement of mechanism for accomplishing the same, if new, could be secured.

Subscribers to the SCIENTIFIC AMERICAN who fail to receive their papers regularly, or miss some numbers entirely, will oblige the publishers by communicating the fact by letter, and specifying what numbers are wanted to render their files complete.

Terms of Advertising.

Table with 3 columns: Line length, Rate per insertion, Total rate. 4 lines for each insertion, \$1.00; 8 lines, \$2.00; 12 lines, \$3.00; 16 lines, \$4.00.

Advertisements exceeding 16 lines cannot be admitted, neither can engravings be inserted in the advertising columns at any price.

American and Foreign Patent Agency.

IMPORTANT TO INVENTORS—MESSRS. MUNN & CO., 125 Fulton Street, New York, Publishers and Proprietors of the SCIENTIFIC AMERICAN, having for many years been extensively engaged in procuring Letters Patents for new mechanical and chemical inventions, offer their services upon the most reasonable terms.

RURAL PUBLICATIONS—The attention of all persons interested in rural pursuits is invited to the following publications:—THE COUNTRY GENTLEMAN—A Weekly Journal for the Farm, the Garden, and the Fireside—forming yearly two large and beautiful quarto volumes of 416 pages each.

BALL and BALLARD, (successors to Ball and Rice) Worcester, Mass., continue to manufacture the well known Daniels Planers; Gray and Wood Patent Planers, being a combination of parts of the Daniels and Woodworth Planing Machines.

ENGINEER'S OIL AND LUBRICATING COMPOUNDS—Cumberland's Metallic Oil, and Yockney's Superior Lubricating Compounds. These oils are free from unpleasant odor, and will not gum on machinery.

PARTNER WANTED—The undersigned having secured a U. S. Patent for an invention which promises to be very profitable, is desirous of forming a partnership with a person having from \$500 to \$1000 capital.

PARTNER WANTED IMMEDIATELY—Who will invest \$500 or \$1000 in Letters Patent, and aid in constructing and operating the machine, from which large profits will arise.

FOR SALE—A valuable Lumbering Establishment in full operation; a large new mill, a good stock of logs on hand, and a quantity of sawed lumber in the yard.

LUBRICATING OILS—We are prepared to furnish the well known Daniels Patent Oil, and other superior lubricating materials; Railroad and Steamship Companies, and all parties using machinery, will find a decided advantage in using our oils, which are more economical than others in market.

TREMPEL'S PATENT REGULATOR and Fuel Economiser for Stationary or Marine Engines; will regulate better and with less fuel than any other known mode.

JACK SCREWS AND HYDRAULIC JACKS.—For sale at manufacturers' prices, by FOSTER & LEACH, 26 Broadway, N. Y.

MACHINERY—R. C. HILLS, No. 12 Platt St., N. Y. dealer in Steam Engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps; Mortising, Tenoning, and Sash Machines Woodworth's and Daniels' Planers; Dick's Punches, Presses, and Shears; Cob and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belting, Oil, &c.

THE ARTISAN JOURNAL—A Monthly Record of the Progress of Civil and Mechanical Engineering, Steam Navigation, Shipbuilding, and the Industrial Arts, Chemistry, &c. Published in London, and for sale in numbers and volumes by CHAS. H. HASWELL, Consulting and Superintending Engineer, Bowling Green, New York.

UNITED STATES PATENT OFFICE.

ON THE PETITION OF EMILY C. PULLMAN, administratrix of the estate of Lewis Pullman, deceased, late of Albion, N. Y., praying for the extension of a patent granted to the said Lewis Pullman, on the 17th day of August, 1841, for an improvement in "machines for removing buildings," for seven years from the expiration of said patent, which takes place on the 21st day of August, 1855.

Ordered, also, that the said petition be heard at the Patent Office on Monday the 6th day of August next, at 12 o'clock, M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

NEW GAS REGULATOR—The subscriber offers for sale in one lot, or by single States, the entire patent for his Gas Regulator. The machine is simple in construction, correct in principle and accurate to a nicety in its operation.

SEVEN FINE VOLUMES of the London and Glasgow Practical Mechanic's Journal, for sale; being the work from the beginning up to the present time; containing about 4000 engravings, illustrative of all the most prominent British and American patented mechanical inventions from March, 1848, to March, 1855, including a list of English patents together with a vast amount of scientific and other interesting information.

STAFFORD'S HALF HUNDRED RECEIPTS—A Pamphlet of 16 octavo pages, containing more than 50 new and valuable receipts. This book should be in the hands of every mechanic farmer, and thrifty housekeeper.

DESCRIPTIVE OR ILLUSTRATED CIRCULARS of Machinery, Implements, Plants, Seeds, Stock, &c., if forwarded, (post-paid) addressed to the Secretary of the Adams County Agricultural Society, Quincey, Ill., will be filed for inspection and reference of the Members of the Society.

TWO LET—Light Rooms with steady power, on Canal, Elm, and Water streets, at very low rates. Situation central, Engine buildings, and occupants first class. Facilities for exhibiting new machines, by Mr. GAUDU, 102 Walker st.

MACHINISTS' TOOLS—Manufacturers, Mechanics and Railroad Supplies, Locomotive and Stationary Engines, Steam Boilers, Belting, Cotton and Woolen Machinery, Water Wheels, Pumps, Blowers, &c.

THE AMERICAN ROCK DRILLING CO. invite attention to their superior machine (patented) which, after thorough trial is believed to be the simplest and most efficient in use for artesian wells, heavy excavations, quarries, mines and for face dressing.

THE CHEAPEST HORSE POWER KNOWN.—Patented April 1st, 1855.—Simpson's horse power has not a gear wheel about it, and it can be constructed and kept in repair by an ordinary mechanic.

OFFICE OF THE HYDRAULIC WORKS—No. 28 Broadway, New York. Steam Pumping Engines, for steamers, wrecking purposes, irrigating and draining lands, deep mining shafts, quarries, and excavations, railroad stations, tanneries, factories, public institutions, hotels, gas works, &c.

MATHEMATICAL INSTRUMENTS.—The undersigned furnishes, free of charge on application to all part of the United States, his new Illustrated Catalogue of Mathematical, Optical, and Philosophical Instruments.

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

OIL! OIL! OIL!—For railroads, steamers, and for machinery and burning—Pease's Improved Machinery and Burning Oil will save fifty per cent., and will not gum. This oil possesses qualities vitally essential for lubricating and burning, and found in no other oil.

J. P. MERRIAM'S MACHINERY DEPOT—Sandusky City, Ohio, 228 Water st. Has on hand and furnishes to order Stationary and Portable Engines, Machinists' Tools, Sash Lathes, Drills, Planers, Chucks, Portable Engines, and Child's Saw Mills, Fay's Sash Machines, Steam Gauges, &c.

THE EUROPEAN MINING JOURNAL, RAILWAY and Commercial Gazette. A weekly newspaper forming a complete history of the Commercial and Mining Progress of Mines and Railways, and a carefully selected and valuable series of numerous illustrations of all New Inventions and Improvements in Mechanics and Civil Engineering.

GRAIN MILLS—EDWARD HARRISON, of New Haven, Conn., has on hand for sale, and is constantly manufacturing to order a great variety of his approved Flour and Grain Mills, including Bolting Machinery, Elevators, complete with Mills ready for use.

IMPORTANT INVENTION—Patented 7th June, 1853.—Falconer's Coupling for hose, hydrants, force pumps, etc., is the only coupling likely to supersede the screw coupling.

JOHN PARSHLEY, NEW HAVEN, Conn. Manufacturer of Machinists' Tools. Has on hand, and is finishing all sizes of Engine and Hand Lathes, Iron Planers, Upright Drills, Bolt and Gear Cutters, Universal and Scroll Chucks of the best quality and latest style, at extremely low prices for approved paper, and still lower for cash.

POWER PLANERS—Persons wanting Iron Planers of superior workmanship, and that always give satisfaction, are recommended to the New Haven Manufacturing Co., New Haven, Ct.

MACHINISTS' TOOLS—Meriden Machine Co. have on hand at their New York Office, 15 Gold St., a great variety of Machinists' Tools, Hand and Power Punching Presses, Forging Pumps, Machine Belting, &c., all of the best quality. Factory West Meriden, Conn.

RUSSELL, Manufacturer of Philosophical Apparatus and Inventors' Models, No. 7 Washington Street, Salem, Mass.

ANDREWS & JESUP—Commission Merchants, Cotton and Woolen Machinery, Steam Engines, Machinists' Tools, Belting, &c., Importers and Dealers in Manufacturer's Articles, No. 67 Pine St., N. Y.

SMITH'S WATER-TUBES—Prosser's Patent. These Tubes are made of wrought-iron, and are warranted not to crack by the most intense heat. Also Water-backs and Tanks, for kitchen ranges, hotels, and restaurants, &c., requiring a constant supply of hot water.

STAVE DRESSER AND JOINTER—For tight work decidedly the best and cheapest in use. Machines made in operation at SHAW & KIBBEE'S Shook Manufacturing, Buffalo, N. Y., and models may be seen at the office of the agent, JAMES S. POLHEMUS, 117 Pearl Street, New York, or to the patentees, H. & L. D. BENSON, Jackson, Susquehanna Co., Pa., any communications may be addressed.

NEW HAVEN MFG. CO.—Machinists' Tools. Iron Planers, Engine and Hand Lathes, Drills, Bolt Cutters, Gear Cutters, Chucks, &c., on hand and finishing. These Tools are of superior quality, and are for sale low for cash or approved paper, terms giving description and prices. Address, "New Haven Manufacturing Co." New Haven, Conn.

IRON PLANERS—Of various sizes and superior workmanship on hand and finishing, for sale low for cash. We confine ourselves solely to building Planers, and can warrant every machine, Lathes, Drills, Gear Cutters, Chucks, &c., of the best quality furnished at very low prices. Address THOMPSON, SKINNER & CO., New Haven, Conn.

A CLIPPER AMONG THE MONTHLIES.—The NAUTICAL MAGAZINE, devoted exclusively to Maritime interests, embracing shipbuilding, commerce, navigation, and marine engineering, enlarged 86 pages. This work contains draughts of some of the finest vessels of the age, with other engravings, and is one of the most valuable publications in the country.

TECHNICAL DICTIONARY—In the English, French, and German Languages; by Messrs. Polhausen and Gardissal, Civil Engineers. Ready (first part) French, English, German, price \$1.31; (second part) English, French, German, price \$1.50. These volumes are designed for the general use of Engineers, Artists, Manufacturers, Foremen, Artisans, in short, of all those who, in some way or other are concerned in Arts and Manufactures.

HARRISON'S GRAIN MILLS—Latest Patent.—\$1000 reward offered by the patentee for their equal. A supply constantly on hand. Liberal Commissions paid to agents. For further information address New Haven Manufacturing Co., New Haven, Conn., or to B. C. HILLS, our agent, 13 Platt Street, New York, 13 1/2 Nassau St., New York.

1855—D. W. WHITING, Forwarding and Commission Merchant, Buffalo, N. Y.—Particular attention given to manufacturers' goods and wares, and shipped at the lowest rates by any line, as directed. Mark plainly, "care D. W. WHITING, Buffalo, N. Y."

NORCROSS ROTARY PLANING MACHINE.—The Supreme Court of the U. S., at the Term of 1853 and 1854, having decided that the patent granted to Nicholas G. Norcross, of date Feb. 12, 1850, for a Rotary Planing Machine for Planing Boards and Planks, is not an infringement of the Woodworth Patent.