

TO CORRESPONDENTS.

H. P. T., of Mass.—Placing small mirrors inside of gentlemen's hats is a very old device, and in common use.

H. C. G., of Ill.—Whether your proposed watering machine would be practicable depends on its construction. You do not describe it.

C. H. S., of N. Y.—The making of a paving or building material by filling a mold with small stones and then pouring in melted iron is quite old, and not patentable.

M. M., of Pa.—Expanding reamers are quite old; we do not think there is any chance for obtaining a patent on your device.

J. B. U. Jr., of N. H.—Your invention for reefing jibs and all triangular sails appears to be a novel contrivance and we should think it patentable. We cannot satisfactorily reply to your enquiry as to whether it is worth patenting or not.

E. T. L., of Va.—We would infer that a daguerreotype of the moon placed under a microscope would reveal the most minute objects on its surface, but this has been done under a powerful instrument without satisfactory results.

G. B. C., of N. Y.—We shall wait further instructions in regard to your case.

L. W. B., of Mass.—It will be a very difficult matter to remove the incrustation from your water pipe. A dilute acid can do it, but how can you apply it? It is our opinion that you will have to lift the pipes and lay in a new set.

J. R. M., of Me.—Air cushions and air beds for marine purposes are well known. A patent could not be obtained for them. We hope your Inventors' Club will be successful. It has been found difficult to maintain such an organization for any length of time.

J. W., of N. Y.—The rotary engine described in your letter does not contain the slightest novelty. It is one of the oldest inventions of the kind.

J. W., of C. W.—We do not know what the Canada Postmasters are allowed to charge upon newspapers sent from the States. We must refer you to the Canadian postage laws for an answer to this enquiry.

H. G. Jr., of N. Y.—It would be out of the question to procure the aid of any one to the amount of \$25,000 or \$30,000 for the purpose of experimenting on a steam plow, notwithstanding the assurance that your proposed plan is perfectly feasible.

H. H., of L. I.—Go ahead with your perpetual motion.

J. B. W., of N. J.—You can do as you think best in regard to your composition.

G. McC., of New Brunswick.—Your enquiries in regard to the proposed Fair of the American Institute have been submitted to the Secretary for his attention.

A. D. C., of Boston.—If you will send us an intelligible sketch and description of your shoe pegging machine, together with your proper address, we will answer your enquiry by mail.

D. L. B., of Ky.—The steam engine you describe as a substitute for the common reciprocating kind in general use, is nothing more nor less than a rotary, well known to all who are familiar with the history of the steam engine.

Chas. R. Brown, of Hebron, Wis., wishes to purchase the best apparatus for heating a work-shop 72 x 22 feet and 2 stories high with hot air, using maple chips for fuel. Who will give him the information?

M. B. De., of Ill.—There is no work with which we are acquainted on molding in Plaster of Paris.

J. G. of Va.—Pipe for making drains on farms, are made in the manner described by you. No patent could be obtained by you.

H. G., of Canada.—A law for permitting the people of other countries to take out patents in this country on the same terms as our own citizens is now before Congress, but has not yet passed.

MUNN & CO. American and Foreign Patent Attorneys, Principal Office 123 Fulton street, New York.

IRON ROLLING MILLS—I wish to obtain the address of some rolling mills which can make a band of iron 30 feet long, 5 inches wide, 1-32 of an inch thick, made of the toughest best kind of iron, to serve for an endless band for a belt saw on my patent marble sawing machine. Address, C. A. SCHULTZ, Box 2215, Chicago, Ill.

COOKING AND HEATING FOR THE MILLION—The most practical and useful invention of the present age. Important to Capitalists and Manufacturers. A rare chance to make a fortune. Demorest's Patent Magic Atmospheric Gas Stove has now been fully tested by scientific experiment, and by practical use in hundreds of families, and fully confirmed as just the article long needed by families, hotels, and restaurants, etc., for general cooking and heating purposes.

PAGES PATENT CIRCULAR SAW MILLS—With Steam Engine and Boiler, on hand and for sale for \$1500, at Schenck Machine Depot, 163 Greenwich st. New York. A. L. ACKERMAN, 49 10

A YOUNG MAN about 21 years of age, wishes to find a place in the city or country where he can learn the machinist trade. Address, A. BEAL, 49 2 No. 15 Center st. N. Y.

PREMIUMS FOR FIRE ENGINES—The large Gold Medal will be awarded for the best Steam Fire Engine, and for the best Fire Engine, to be operated by hand power, to be exhibited at the Fair of the American Institute this Fall. By order of the Managers. 49 2 WM. B. LEONARD, Agent.

Important Items.

NEW EDITION OF THE PATENT LAWS.—We have delayed for some months the issue of another edition of the present Patent Laws in the expectation that Congress would most certainly at this Session, make some simple amendments to them—such as are earnestly sought for by inventors and patentees.

MODELS.—We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and prevent the liability of their being mislaid.

Literary Notices.

LIFE OF WASHINGTON, By Washington Irving.—No individual could do the task of portraying the character and career of the immortal Washington more appropriately than to Washington Irving. A fervent patriot, of peerless genius and brilliant achievements, he is the Washington of all his literary contemporaries.

BLACKWOOD'S MAGAZINE.—The last number of Old Ebony is rich. The Athelings is continued—an interesting story—so is Travels in Circassia, and the Scot Abroad, which gives an account of Law—perhaps a progenitor of Live Oak George—who from a silversmith arose to be a mighty ruler in France, and in bamboozled the whole French Court. Published by Leonard Scott & Co. No. 54 Gold st., this city.

THE KNICKERBOCKER.—This Magazine for the present month affords a rich treat for the literary epicure, who, retiring to a shady nook, fanned by the fragrant gales, delights to quaff sparkling draughts of intellectual nectar. Published by S. Hueston, No. 348 Broadway, N. Y.

APPLETON'S RAILWAY AND STEAM NAVIGATION GUIDE for August, has made its appearance. It is a complete synopsis of travel by land and sea. Appleton & Co., 364 Broadway, N. Y.

HALL'S JOURNAL OF HEALTH.—This is a very spicy and vigorous journal, full of sound common sense. The Editor would throw the bulk of the physic to the dogs.—Dr. Hall, No. 42 Irving Place, N. Y.

UNITED STATES MAGAZINE.—The number for August is splendidly illustrated. This work seems destined to take a high rank among the periodical literature of the country. Emerson & Co., N. Y. publishers.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 4 lines, for each insertion, \$1; 8 lines, for each insertion, \$2; 12 lines, for each insertion, \$3; 6 lines, for each insertion, \$4.

Advertisements exceeding 16 lines cannot be admitted either as engravings or inserted in the advertising columns at any price. All advertisements must be paid for before inserting.

IMPORTANT TO INVENTORS.

THE UNDERSIGNED having had TEN years' practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they continue to offer their services to all who may desire to secure Patents at home or abroad.

Over three thousand Letters Patent have been issued, whose papers were prepared at this Office, and on an average fifteen, one-third of all the Patents issued each week, are on cases which are prepared at our Agency. An able corps of Engineers, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others possess, we are able to give the most correct and satisfactory answers in regard to the patentability of inventions placed before us for examination.

Private consultations respecting the patentability of inventions are held free of charge, with inventors, at our office, from 9 A. M., until 4 P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improvement should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with safety from any part of the country by express. In this respect New York is more accessible than any other city in our country.

Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application. In addition to the advantages which the long experience and great success of our firm in obtaining patents present to inventors, they are informed that all inventions patented through our establishment, are noticed, at the proper time, in the SCIENTIFIC AMERICAN. This paper is read by not less than 100,000 persons every week, and enjoys a very wide spread and substantial influence. Most of the patents obtained by Americans in foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for in the U. S., go through our agency.

MUNN & CO. American and Foreign Patent Attorneys, Principal Office 123 Fulton street, New York.

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TWENTY-EIGHTH ANNUAL FAIR OF THE AMERICAN INSTITUTE OF THE CITY OF NEW YORK.

The American Institute of the City of New York at the Crystal Palace.—This magnificent and spacious building will be opened for the reception of Goods from Monday the 15th, until Saturday the 20th of September. Heavy goods and articles from a distance will be received and stored in the Palace on and after the 1st of September.

CIRCULAR SAW MILLS.—The subscriber has on hand, and is constantly manufacturing these celebrated mills with saws from 30 to 80 inches diameter, adapted to manufacturing most kinds of lumber, and warranted to give satisfaction. For prices, &c., address W. HERRICK, Northampton, Mass. 49 8*

MACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufactured of vulcanized rubber is established. Every belt will be warranted superior to leather, at one-third less price. The Steam Packing is made in every variety, and warranted to stand 300 degs. of heat. The hose never needs oiling, and is warranted to stand any required pressure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be obtained by mail or otherwise, at our warehouse, New York Belting and Packing Co., JOHN H. CHEEVER, Treasurer, No. 6 Dey street, N. Y. 49 10*

SECOND HAND STEAM ENGINES FOR SALE.—One of six and one of eight-horse power. In good order, and will be sold low. W. H. ADAMS, 48 2* 29th st. cor. 11th ave.

NOTICE.—To Agricultural Societies and Manufacturers.—G. & J. W. Gibbs, of Canton, Ohio, have invented a Dynamometer, the best yet brought before the American people for testing the draft of plows, mowers and reapers, &c. Those wishing to secure one of these valuable instruments for the coming year should order early. Instruments warranted. Patent applied for. 49 3*

INGERSOLL'S IMPROVED PORTABLE Press for Hay, Cotton, Tobacco, &c.—A silver medal for which was awarded last fall at the Fair of the American Institute, and also at the Fairfield County Fair in Conn. On account of the cheapness, compactness, portability and great power it is exactly adapted to the wants and means of every farmer and planter, and is believed to be far superior in every respect to any other machines of the kind now manufactured. See Sci. Am. Vol. XI, No. 30. Circular, cuts, &c., descriptive of the machine can be had on application to the Farmers and Mechanics Manufacturing Co., Green Point, (Brooklyn) L. I. 48 4*

WELTON, STEARNS & HOLMES—Artesian Engineers, Charleston, S. C., and Augusta, Ga. A. C. WELTON, I. H. STEARNS, C. B. HOLMES. 48 3*

FOR SALE.—9 Volumes of the Scientific American, 2 to 10 inclusive, complete and well bound. Address J. V. HAYNES, West Meriden, Conn. 48 2*

VANFLEET'S PLANING MACHINE—Important to Builders, Dealers in Lumber, Car Manufacturers, &c.—This machine does not take half the power that the Woodworth Planer does, and is applicable and practicable for horse power. For rights and machines address D. C. HENDERSON, Sandusky, O. 48 4*

1000 YOUNG MEN for big wages. Honest, easy, and sure. Send stamp to Box 533, Detroit, Mich. 48 2*

50 STEAM ENGINES.—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash. WM BURDON, 102 Front st., Brooklyn. 41 tf

GOLD QUARTZ MILLS of the most improved construction will crush more quartz and do it finer than any machine now in use, and costs much less. WM BURDON, 102 Front st., Brooklyn. 41 tf

REED'S PATENT CHROMOMETER ENGINE.—This is an improved Steam Engine for which Letters Patent were granted to John A. Reed, of New York, Jan. 9, 1855. The nature of this improvement consists in the increase of power about 20 per cent., and reducing the weight of the engine one half. The saving of fuel is effected by letting the steam in on both sides of the cylinder; doubling the size of the port, and balancing the pressure, removing the friction and weight of the slide valves, eccentrics, cross heads, connecting rods, &c. The exceeding simplicity of this engine renders it much more durable and easily managed than any other, and when placed upon the boiler with wheels it is portable though effective. These engines received the First Prize Medal at the Great Exhibition in Paris. There are about seventy-five of them now in operation, giving great satisfaction. 1-horse Engine \$150. Boilers and fittings \$125. 3 " " 200. " " 150. 6 " " 300. " " 300. 8 " " 400. " " 400. 10 " " 500. " " 500. All sizes from 1 to 100-horse power at the shortest notice. Also Reed's Patent Steam Pump, the simplest and most durable one in use for raising water or supplying boilers. Further information may be had by addressing F. OUSLEY & REED, 95 Maiden Lane, New York. 24 lamf.

WEISSENBORN'S PATENT INCrustATION Preventer.—Among the testimonials to the great success of this invention, read the following from William Burdon, 102 Front st., Brooklyn.—"I am perfectly satisfied with its operation. I believe it is the only machine yet invented that will entirely separate lime and other impurities from the water, when using hard water." In addition to this, it is the best water-heater, and a superior condenser. All parties are warned against infringements on the patent. STEWART KERILL, Agent, 47 500w 17 Broadway, New York.

H. WELLS & CO., Florence, Hampshire Co., Mass.—Are at all times prepared to fill orders for any size (single or double) of Wells' Patent (Improved) premium Circular Saw Mills, which take the lead of all other mills in market for manufacturing lumber. Also Morrison's Shingle Machines, which shave, and joint perfectly, 60 shingles per minute.—Self-Setting, Shingle, and Lath Sawing machines, capable of sawing 1000 shingles per hour, or 400 lath per day. Cuts, and List of Prices sent by mail when desired. 45 600w

KENTUCKY MECHANIC'S INSTITUTE.—The Fourth Annual Exhibition will commence in Louisville, on Sept. 30th, 1856. Gold silver, and bronze medals, and diplomas will be awarded for superior articles, and special premiums for the most meritorious. Competition is invited from every part of the Union. The Hall will be ready for the reception of goods on Sept. 18. Articles for exhibition only admitted free of charge.—Goods must be carefully packed and directed "Kentucky Mechanic's Institute, care of Carter and Jewett, Louisville, Ky." Persons applying for space or desiring further information, will address D. McPHERSON, Secretary of the Exhibition Committee. 45 4*00w

PORTABLE STEAM ENGINES.—S. C. HILLS, No. 12 Platt st., N. Y., offers for sale these Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact, from 2 to 10 horse power, suitable for printers, carpenters, farmers, planters, &c. A 2 1/2 horse can be seen in store, it occupies a space 5 by 3 feet, weighs 500 lbs., price \$240; other sizes in proportion. 27 63w

CIRCULAR SAWS.—We respectfully call the attention of manufacturers of lumber to the great improvements recently introduced in the manufacture of our Circular Saws.

Being sole proprietors of Southwell's patent for grinding saws, we are enabled to grind circular saws from six inches to six feet with the greatest accuracy and precision. The impossibility of grinding a saw without leaving it uneven in thickness has always been acknowledged by practical saw makers. This causes the saw to expand as soon as it becomes slightly heated in working. When this takes place the saw loses its stiffness, and will not cut in a direct line. We will warrant our saws to be free from these defects; they are made perfectly even in thickness, or gradually increase in thickness from the edge to the center, as may be desired. As there are no thick or thin places, the friction on the surface of the saw is uniform, consequently it will remain stiff and true, and will require less and less power. Our saws are smooth, saw lumber, and will not be liable to become untrue. This is the oldest establishment now in existence for the manufacture of circular saws in the United States, having been established in the year 1830. Orders received at our Warehouse, No. 48 Congress st., Boston. 44 13* WELCH & GRIFFITHS.

KNITTING MACHINES—Circular and straight knitting machines of all sizes and gauges on hand and made to order. WALTER AIKEN, Franklin, N.H. 46 8*

PAGES PATENT PERPETUAL LIME KILN, will burn 100 barrels of lime with three cords of wood every 24 hours; likewise my coal kiln will burn 150 bushel with 1 tub bituminous coal in the same time; coal is not mixed with limestone. Rights for sale. 45 26 C. D. PAGE, Rochester, N. Y.

NORRIS WORKS, Norristown, Pa.—Ingils, Carson & West, Iron and Brass Founders, Machinists, Boiler Makers and Steam Engine Builders.—Manufacture Cornish Pumping Engines of an improved construction for mines and Water works, of any capacity. All kinds of Mining Machinery, Sugar Mills, Propeller Engines for Canal Boats, Blowing Cylinders, and all heavy machinery required in the Engineering business generally. ANDREW INGILS, RICHARD R. CARSON, JOHN WEST. 430*

LAWRENCE SCIENTIFIC SCHOOL—Harvard University, Cambridge, Mass. The next term will open on Thursday, Aug. 25th. For catalogue containing full particulars address E. W. HORSFORD, Dean of the Faculty. 42 8

BARREL MACHINERY—CROZIER'S PATENT performed, and will be seen in constant operation at the Barrel Manufactory of the undersigned. For rights and machines address WELCH & CROZIER, 43 13* Oswego, N. Y.

TWO CAR BUILDERS—For Sale, one new Upright Boring Mill for boring car wheels. Maker's price \$600, will be sold for \$300 cash. Address GEO. S. LINCOLN & CO., Hartford, Ct. 43tf

FOR SALE—One second-hand 7 ft. power Planing Machine, made by the New Haven Manufacturing Co. Cost \$500, will be sold for \$300 cash. Has been used only about four months. Also an upright drill by the same makers. Cost \$90, will be sold for \$40 cash. Address GEORGE S. LINCOLN & CO., Hartford, Conn. 47 tf

BOILER FLUES—All sizes and any length promptly furnished by JAMES O. MORSE & CO., No. 791 John st., N. Y. 37 3mos

WROUGHT-IRON PIPE—Plain, also galvanized inside and outside, sold at wholesale by JAMES O. MORSE & CO., No. 791 John st., N. Y. 37 3mos

FORBES & BOND, Artists, 89 Nassau st., N. Y., Mechanical and general Draughtsmen on wood, stone, &c.

THE NEW YORK DAILY SUN for \$2 a year. The miracle of the present age is accomplished by the Publisher of the New York Sun, in furnishing subscribers in clubs of thirty or more with the daily paper by mail for \$2 a year. The Sun commenced in 1833; is the oldest, as well as the cheapest of all the cheap daily newspapers. It contains the latest news to be had by telegraph, mail, or express—is independent on all subjects, and has for its motto the Common Sense. Club rates—payable in advance, 5 copies \$16.50; 10 copies \$30; 15 copies \$41.25; 20 copies \$50; 25 copies \$56.25; 30 copies \$60. Single copies \$4 a year. Papers to be sent in one wrapper, and only by mail, and to be directed to one person only. The postage on the Daily Sun within the State of New York is only 78 cents per year, and only \$1.50 to any other part of the United States. Specimen copies sent gratis on application. Letters (always post paid) to be directed to MUSEUS S. BEACH, Sun Office, New York City. 37 tf

VAIL'S CELEBRATED PORTABLE STEAM Engines and Saw Mills, Bogardus' Horsepowers, Smit Machine, Saw and Grist Mills, Irons, &c., &c., on hand, or furnished at short notice, and at moderate charges. Adams' Improved batteries and black-lead machines also for sale. LOGAN & LIDGERWOOD, 13 1y* 9 Gold st., N. Y.

FILMER & CO., Electrotypers, and Manufacturers of Electrotype Materials, 125 Fulton st., N. Y. Molding Presses, Batteries, Cases, Blanking Plans, Shaving Machines, Metal Kettles, Chases, Blocks, Building Irons, etc., etc., on hand, or furnished at short notice, and at moderate charges. Adams' Improved batteries and black-lead machines also for sale. 25 tf

OIL! OIL! OIL!—For railroads, steamers, and for all 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. It is offered to the public upon the most reliable, thorough, and practical test. Our most skillful engineers and machinists pronounce it superior and cheaper than any other, and the only oil that is in all cases reliable and of uniform quality. The Scientific American, after several tests, pronounced it "superior to any other they have ever used for machinery." For sale only by the inventor and manufacturer. P. S. PEASE, 61 Main st., Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe. 35 tf

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. Rights to use the N. G. Norcross's patented machine can be purchased on application to N. G. NORCROSS, Office for sale of rights at 27 State street, Boston, and Lowell, Mass. 45tf

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. For cuts giving full description and prices, address, "New Haven Manufacturing Co. New Haven, Conn." 19 tf

HARRISON'S 30 INCH GRAIN MILLS—Latest Patent.—A supply constantly on hand. Price \$300. Address New Haven Manufacturing Co., New Haven, Conn. 31tf

BOILER INCrustATIONS PREVENTED.—A simple and cheap condenser manufactured by Wm. Burdon, 102 Front st., Brooklyn, will take every particle of lime or salt out of the water, rendering it as pure as Croton, before entering the boiler. Persons in want of such machines will please state what the bore and stroke of the engines are, and what kind of water is to be used. 41 tf