

LITERARY NOTICES.

THE PLURALITY OF WORLDS—With an Introduction by Edward Hitchcock, D. D., 12mo, pp. 307. Boston: Gould & Lincoln. For sale in New York by Evans Dickerson, Gould & Lincoln, of Boston, are rapidly acquiring for their house an extensive and enviable reputation, as the publishers of the most valuable and popular scientific books issued in this country.

NEW YORK CRYSTAL PALACE ILLUSTRATED—This is an elegant work, by Messrs. Geo. Carstensen and Charles Gillemester, architects of the Building—the publishers are Riker, Thorne & Co., New York. There is one beautiful exterior view of the Palace in oil colors, and six large plates containing plans, elevations, sections and details from the working drawings.

TROW'S NEW YORK CITY DIRECTORY—Compiled by H. Wilson. This Directory is unusually valuable, as it contains not only a complete and accurate list of the names and residence of the inhabitants of this great city, but also a general classified business and copartnership directory; these two latter features are new, and are well worthy of the attention and patronage of our people.

TO CORRESPONDENTS.

E. H. McDonald, of New Creek Depot, Va.—This man says, he has a large quantity of white oak slabs, and wishes to know how he can convert them into saleable stock, or otherwise can dispose of them. Who will inform him?

S. S., of N. Y.—We use a faucet every day in our office which is constructed precisely like the sketch you sent us.

R. M., of Mass.—An application was made some time since, for a patent on a knife sharpener after the plan you suggest, but we think it has not issued yet, and it is doubtful if it ever does.

J. H., of N. H.—Fire alarms constructed in a manner you propose will probably be the first kind ever adopted. Suspending cords around a building made fast to clock gearing with an alarm bell attached, answers a very good purpose, but the use of a metal wire will answer the purpose and is much more durable. The expansion of the wire by heat will produce the same result as the cord by altering the mechanism of your clock work but slightly.

S. T. McC., of Ga.—We see no novelty in your wheel, and believe it possesses no merit over many other wheels.

G. S. Q., of Conn.—Chas. Lucas did obtain a patent in 1843, for an apparatus for cutting garments.

S. W., of N. Y.—You cannot do anything towards patenting a machine of which you are not the inventor, we can see no chance for you under the circumstances, unless you can negotiate with the foreign inventor, and through him secure the patent.

J. P. H., of N. H.—We see no advantage to be gained from your proposed improvement in steam engines. We would prefer to attach the engine to the boiler as is usually done in all portable engines.

H. D. B., of Cal.—Your question propounds to us the very subject we have been wishing information upon for some time. Who among our intelligent readers will impart some facts concerning the remarkable dark day of which we have all heard from the lips of our grandmothers? Was the phenomenon ever accounted for? What was the terrestrial and celestial appearance of the universe. Who will enlighten our inquirer and ourselves upon this matter?

T. M. P., of Md.—It would not be patentable to construct a kettle with a recess around it, so as to allow of its being packed with non-conducting substances. This principle has been applied to so many different purposes that any mere change of use would not render it patentable.

C. C., of Pa.—Your alleged improvement in paper feeders has a number of claimants, and unless you invented it months ago you will stand no chance for a patent.

J. B. C., of Tenn.—Yours will receive attention.

W. B., of Mass.—Yours is under consideration.

R. McQ., of Mass.—You must be the best judge of the quality of the liquor to which you refer, as testing the matter is the only way to prove its qualities. It interferes, we believe, with no existing patent right.

T. B. C., of Del.—Some have supposed that motion was the cause of heat, while others have supposed that heat was the cause of motion. The friction of the water in motion to which you refer, no doubt increased its temperature.

L. A. D., of Ohio.—There is no patentable novelty in your self-operating faucet for letting water out of steam cylinders. We have seen essentially the same thing before.

J. B. K., of Geo.—We do not know of any one engaged in making such machines as you want.

E. J. M., of Mass.—There is certainly more friction to be overcome in driving water through a long than a short pipe. The cistern which you describe could be filled as soon with the supply water a mile distant as thirty feet, but it would require more power to propel the water through the long pipe, as a column of water a mile long would have to be moved every stroke.

Money received on account of Patent Office business for the week ending Saturday, June 17:—

G. M. B., of O., \$25; J. B. W., of Mass., \$25; E. C. F., of Ct., \$30; F. B. H., of Ind., \$30; G. C., of Me., \$45; J. L., of Ky., \$30; T. G. B., of Ct., \$25; J. A. G., of Mich., \$45; J. C. E., of N. Y., \$30; B. F., of Ind., \$30; W. H. H., of Pa., \$10; B. F. B., of Mass., \$25; A. N. N., of Ind., \$55; W. H. W., of Pa., \$25; A. W., of N. Y., \$30; J. D., of N. Y., \$55; J. J. S., of Mo., \$50; P. G. G., of N. Y., \$10; S. P. C., of N. Y., \$30; C. A. S., of Mass., \$28; E. T., of N. H., \$40.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 17:—

G. M. B., of Ohio; T. G. B., of Ct.; H. L. C., of Ind.; J. B. W., of Mass.; G. C., of Me.; A. R. H., of Pa.; B. F., of Ind.; S. P. C., of N. Y.; J. T. D., of N. Y.; P. G. G., of N. Y.; C. A. S., of Mass.; E. T., of N. H.; W. H. W., of Pa.

A Chapter of Suggestions, &c

PATENT LAWS—The seventh edition of the American Patent Laws and Guide to the Patent Office. For sale at this office, price 12 1/2 cents.

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.

PATENTERS—Remember we are always willing to execute and publish engravings of your inventions, providing they are on interesting subjects, and have never appeared in any other publication. No engravings are inserted in our columns that have appeared in any other journal in this country, and we must be permitted to have the engravings executed to suit our own columns in size and style. Barely the expense of the engraving is charged by us, and the wood-cuts may be claimed by the inventor, and subsequently used to advantage in other journals.

BACK NUMBERS AND VOLUMES—In reply to many interrogatories as to what back numbers and volumes of the Scientific American can be furnished, we make the following statement: Of Vols. 1, 2, 3, and 4—none. Of Vol. 5, forty numbers, price, in sheets, \$1; bound, \$1.75. Of Vol. 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7, all; price, in sheets, \$2; bound, \$2.75. Of Vol. 8, none complete, but about 30 numbers in sheets which will be sold at 50 cents per set; of Vol. 9, all but five numbers.

TO CORRESPONDENTS.—Condense your ideas into as brief space as possible, and write them out legibly, always remembering to add your name to the communication. Anonymous letters receive no attention at this office. If you have questions to ask, do it in as few words as possible, and if you have some invention to describe come right to the business at the commencement of your letter, and not fill up the best part of your sheet in making apologies for having the presumption to address us. We are always willing to impart information if we have the kind solicited.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Number of lines and Price. 4 lines, for each insertion, 75 cts; 8 lines, 1.50; 12 lines, 2.25; 16 lines, 3.00.

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

All advertisements must be paid for before inserting.

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. All business entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M. until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express, or any other convenient medium. They should not be over 1 foot square in size, if possible. Having Agents located in the chief cities of Europe, our facilities for obtaining Foreign Patents are unequalled. This branch of our business receives the special attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Patents. MUNN & CO., Scientific American Office, 125 Fulton Street, New York.

EUROPEAN PATENTS.—MESSRS. MUNN & CO. pay special attention to the procuring of Patents in foreign countries, and are prepared to secure patents in all nations where Patent Laws exist. We have our own special agents in the chief European cities; this enables us to communicate directly with Patent Departments, and to save much time and expense to applicants.

CARPENTER & PLASS.—Having removed their works to the foot of 50th street, East River, N. Y., and enlarged their facilities for manufacturing Machinery Tools, are now prepared to supply unlimited orders at shortest notice, always guaranteeing a superior article. Terms moderate. 41 2/3

NOVELTY IRON WORKS.—Manufacturing of Machinery Tools; also Engine Lathes, with an improved Tool Rest, Lathes, and Iron Planers kept on hand; for sale by W. W. NICHOLS & CO., cor. B and Turnpike street, Boston, Mass. 41 1/2

FOR SALE.—The Crescent Foundry and Machine Co. have nearly finished a large Lathe, heavy and substantial, which swings 7 feet 5 inches over the ways, has 19 feet length of bed, and weighs about 13 tons. Bridgeport, Ct., June 14, 1854. 41 2/3

RE-SAWING MACHINE.—Myers & Emson's Patent for cutting thin stuff from 1/8 to 1/4 inch of regular thickness out of merchantable lumber. One of said sawing machines is running constantly at 34 Beane street, in this city, and can be seen at any time. The attention of persons interested in the business is called to the quality of its work. For rights apply to R. G. Emson, 351 Broadway. 41 1/2

PATTERNS.—For Castings and Models for the Patent Office made to order at the pattern shop of the Peck Slip Foundry, Williamsburgh, L. I., near the ferry. 41 5/8 WM. ARCHER.

UNITED STATES PATENT OFFICE. Washington, June 5, 1854.

ON THE PETITION of Frederick J. Austin, of New York, praying for the extension of a patent granted to him on the 18th June, 1841, ante-dated December 16th, 1840, for an improvement in "machines for cutting paper and trimming books," for seven years from the expiration of said patent, which takes place on the sixteenth day of December, eighteen hundred and fifty-four.

It is ordered that the said petition be heard at the Patent Office on Monday, the 4th of December 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.

The testimony in the case will be closed on the 24th of Nov.; depositions, and other papers relied upon as testimony, must be filed in the office on or before the morning of that day; the arguments, if any, within ten days thereafter.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvania Packet, Philadelphia, Pa.; Scientific American, New York; Daily Courier, Buffalo, N. Y.; and Post, Boston, Massachusetts once a week for three successive weeks previous to the 4th day of Dec. next, the day of hearing.

CHARLES MASON, Commissioner of Patents.

P. S.—Editors of the above papers will please copy and send their bills to the Patent Office, with a paper containing this notice. 49 1/2

IRON HILL SIDE PLOWS.—The subscribers hereby give notice to all whom it may concern, that they are the assignees of Harrison & Metcalf (patentees of the above-named Plow) embracing the States of New York, Connecticut, Massachusetts, Vermont, and New Hampshire; we expect to pass through those States with a new and improved mode of plow, and will be prepared to sell either State, County, or district rights to make and use it, as this plow possesses three advantages over all others in use—strength, durability, and simplicity; it only needs to be examined—it will recommend itself for all hill work and road making, and also well on level land. PUBLISHED OCT. 11, 1853. 41 2/8 N. & I. KYLENDALL, Albany, N. Y.

A YOUNG MAN.—Desires of a situation as Foreman or Draughtsman in a machine shop, either in the city or country. Can give the best of references as to qualification. Address HENRY F. SNYDER, 306 Monroe st., New York.

KENTUCKY LOCOMOTIVE WORKS.—Corner of Kentucky and Tenth streets, Louisville, Ky.—The proprietors of the Kentucky Locomotive Works would respectfully inform Railroad Companies and the public generally, that, having completed their establishment, they are now prepared to receive and execute orders for Locomotives, Passenger, Freight, Gravel, and Hand Cars, of every style and pattern, as well as all kinds of Stock and Machinery required for railroads. Particular attention will be paid to repairing, for which they have every facility. They are also prepared to construct and repair the terms for building all kinds of Machine Tools, such as Turning Engines, Lathes, Planers, Drills, Slotting, Spinning, and Shaping Machines of every variety of pattern. Having also a large Foundry connected with the establishment, orders for castings are solicited, and will be filled with promptness. Car wheels of any pattern can be furnished on short notice. Double and single plate and Spoke Wheels of all sizes constantly on hand. Communications or orders must be addressed to OLMSTED, TENNEYS & PECK, Louisville, Ky. 40 6m.

PATENT RIGHT FOR SALE.—We are ready to dispose of the Patent Right, (or any part of it) of the best Stone Drilling Machine now in use, or we are prepared to furnish working machines at very reasonable prices, these machines will drill from 1 to 7 inches in diameter, and 100 feet deep, and can be worked by Hand, Horse, or Steam Power, one machine performing the work of twenty-five men. For further particulars and circulars with cuts address JAS. T. WHITEMORE, Agent American Manufacturing Co., 39 State street, Boston. 40 1/2

T. M. CHAPMAN'S PATENT SAW FILING Machine. The best known and without a rival. The subscriber offers for sale Territorial Rights, and also builds and sends machines wherever they may be wanted. T. M. CHAPMAN, Patentee, Old Town, Me. 40 1/2

EXTENSION OF TIME.—The period for receiving proposals for Superstructure of Bridges and Trusswork of Huntington and Board Top Railroad, has been extended by order of the Board of Directors to Saturday evening, June 24, 1854, Huntington, Pa., June 7, 1854. S. W. MIFFLIN, C. E. 40 1/2

FOR \$1000 EACH.—An assignment will be made, (or security given therefor) of one third the rights patent for England and France, of a breech-loading and self-priming rifle, preventing escape at the breech, simple and durable arrangement and construction, and capable of one shot in five seconds, or one hundred in twelve minutes. U. S. Patent applied for. Address J. C. DAY, Hackettstown, N. J. 38 5/8

PIG IRON.—Scotch and American; also English Boiler Plate and Sheet Iron, for sale at the lowest market prices, by G. O. ROBERTSON, 135 Water st. cor. Fire, N. Y. 40 1/2

MACHINISTS TOOLS.—Power Planers 4 to 16 feet long, weight 1,000 to 10,000 lbs. Engine Lathes, 6 to 19 feet long, weight 1,700 to 4,000 lbs. Swing 21 to 38 inches. Hand Lathes, Gear Cutters, Drills, Bolt Cutters, Slide Rives, Chucks, &c., of best materials and workmanship constantly on hand, and being built, also the best Grain Mills in the country. "Harrison's Patent" For cuts giving full description and prices address NEW HAVEN MANUFACTURING CO., New Haven, Conn. 38 1/2

BRASS FOUNDRY FOR SALE.—On easy terms, having a good share of business, and a fine location. For further information address box 905, Detroit, Mich. 38 5/8

MACHINERY DEPOT.—J. W. HOOKER, 36 Lloyd street, Buffalo, N. Y., commission merchant, and dealer in all kinds of machinery, is prepared to fill orders for Lathes, Planing Machines, Drills, Universal Chucks, Car Wheel Bore, Rubber and Leather Belting, Oils, Millstones, Portable and Stationary Engines, Boilers and Machinery generally. 38 4/8

WOODWORTH'S PATENT Planing, Tonguing, Grooving Machines.—Double machines plane both sides, tongue, and groove at one and the same time, saving one-half of the time when lumber is required to be planed on both sides. Large assortment constantly on hand. Warranted to give entire satisfaction to purchasers. JOHN H. LESTER, 57 Pearl st., Brooklyn, L. I. 37 1/3

GRIFFITH'S PATENT VALVE COCKS for Steam Engines, dyeing establishments, or Chemical Works. They are warranted superior to any valve or cock in use. They are easily repaired without taking them from the pipes, they are made any size from 3/8 in. up to 7 1/2 in., either screwed or with flanges. Responsible agents for the sale of these valves wanted in New York, Boston, Pittsburg, and all the principal cities in the Union. The rights to manufacture in the different States for sale. Parties interested will address J. GRIFFITH, City Tube Works and Brass Foundry, 15 North 7th street Philadelphia. 34 8/8

STAVE AND BARREL MACHINERY.—HUTCHINSON'S PATENT. This machinery, which received the highest award at the Crystal Palace, may be seen there in operation during the ensuing season. Cutting, Jointing and Crozing Staves and Turning Heads. Staves prepared by this process are worth to the cooper from 20 to 40 per cent more than when finished in another way. Applies alike to thick and thin staves. Apply to C. B. HUTCHINSON & CO., Auburn, N. Y., or at the Crystal Palace. 34 1/2

KRUPP'S BEST CAST STEEL.—Suitable for Mint and Rollers, Rollers, also of large size (7x18 inches diam.) for plotting iron, copper or brass. Pistons of Steam Engines, and Shafts for Steamboats, not exceeding six tons weight in one piece. Also the celebrated Cast Steel Axles and Tires, made from a solid bar without welding. Agents, THOS. PROSSER & SON, 38 1/2 Platt st., New York. 33 1/2

STAVE MACHINERY.—The "Mowry Stave Cutter and Jointer Combined," which received the highest award at the Crystal Palace, is the only machine that ever undertook to joint a stave properly at the same time that it was cut and dressed, without rehandling. One man tends the machine and turns out from a solid block of wood ninety staves a minute, ready for the truss hoop. It is not only the best in use, but for slack work we challenge the world. For machines and rights in New York, apply to CHARLES MOWRY, Auburn, For machines and rights in other parts of the United States, apply to GWENNE & SLEEFIELD, Urbana, Ohio. 29 1/2

MINING MACHINERY.—Of most approved construction, furnished by FREDK COOK & CO, Hudson Machine Works, Hudson, N. Y. 15 6m

JOHN PARSHLEY, No. 6 and 7 Howard st., New Haven, Ct., manufacturer of Machinery Tools, and Steam Engines, has now finishing off 25 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lathes have back and screw gear, rib rest, with screw feed, and the rest is so arranged that the tool can be adjusted to any point the work may require, without upturning the tool, hence they possess all the good qualities of the job and the weight of the tool; they are of the best workmanship. Price of Lathes with count shaft and pulleys, \$55 cash. Cuts with full description of the lathe, can be had by addressing as above, post paid. Also four 30 horse power vertical Steam Engines with cylinders. Price of engine with pump and heater, \$850 cash. For particulars address as above. 35 1/2

\$100 REWARD.—To the Manufacturers of Bank Note Paper. The Executive Committee of the Association of Banks for the Suppression of Counterfeiting, hereby offer a reward of One Hundred Dollars for the best specimen, in the opinion of the Committee, of Bank Note Paper, of not less than five hundred sheets, which may be submitted to them on or before the 1st day of January next. All paper submitted, except that selected by the Committee, to be returned to the persons submitting the same. J. M. GORDON, Secretary 31 15*

FULTON FOUNDRY AND MACHINE WORKS. S. W. corner of Green and Morgan streets, Jersey City, N. J. The subscribers are prepared to contract for Sugar Mills and Mining Machinery of every description. Horizontal Steam Engines of various sizes constantly on hand. All orders executed with promptness. 34 13*

ENGINEERING.—The undersigned is prepared to furnish plans for ever description of machinery, water wheels, turbines, and to consult with parties to make experiments and scientific investigations, and to superintend the construction of works. Agent for Mellier's Patent for making White Paper from Straw. VICTOR BEAUMONT, Consulting Engineer, 74 Broadway, N. Y. 38 10*

FOR SALE.—By the Baltimore and Ohio Railroad Co., 24 Grate Cars, adapted to railroad purposes, which will be sold at a reasonable price. For further information apply to SAMUEL J. HAYES, M. of M., Baltimore and Ohio R. Co., or BRIDGES & BRO., 64 Cortland st., New York. 34 1/2

NORCROSS' ROTARY PLANING MACHINE. The Supreme Court of the U. S., at the Term of 1838 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 an infringement of the Woodworth Patent. Rights to use N. G. Norcross' patented machine can be purchased on application to N. G. NORCROSS, 208 Broadway, New York. The printed Report of the case with the opinion of the Court can be had of Mr. Norcross. 36 1/2

MACHINERY FOR SALE.—The following machines are for sale at the "Scientific American Office": Alcott's Concentric Lathe, price \$25. Portable Mortising Machine, \$30. Bushnell's Iron Drill, \$25. All orders should be addressed (accompanied with the cash) to MUNN & CO., 125 Fulton st., N. Y.

WHITE STRAW PAPER.—For Newspapers.—A Mellier, the patentee, having established his process at Nixon & Xelour's Mills, Manassas, where the paper for the Philadelphia Ledger has been made daily from straw since the 13th of April, is now ready to sell licenses to make arrangements for carrying the process elsewhere. Apply to A. MELLIER & BEAUMONT, 74 Broadway, where specimens of half stuff, stuff and paper may be seen. 33 10*

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. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic, Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salmometer, Dudgeon's Hydraulic Lifting Press, Robbins' Patent Wire Rope for hoisting and steering purposes, etc., etc. CHARLES W. COPELAND, Consulting Engineer, 64 Broadway. 35 1/2

PLANING, 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. The work they produce cannot be equalled by the hand plane. They work from 100 to 200 feet, lineal measure, per minute. One machine has planed over twenty millions of feet during the last two years, another more than twelve millions of feet Spruce flooring in ten months. Working models can be seen at the Crystal Palace, where further information can be obtained, or of the patentee at Albany, N. Y. GEO. W. BEARDSLEE. 27 1/2

STATIONARY STEAM ENGINES.—The subscriber is now prepared to furnish, with or without pumps, boilers, &c. Horizontal Engines on iron bed frames, good strong, substantial, plain finished engines that will do good service, say from 4 horse, \$215, to 30 horse, \$1,037; they have Judson's patent valves, and will be warranted to work well. S. C. HILLS, 31 1/2 12 Platt st., New York.

A. B. ELY, Counsellor at Law, 52 Washington street, Boston, will give particular attention to Patent Cases. Refer to Messrs Munn & Co., Scientific American. 16 1/2

SEWING MACHINE.—The Office and Warerooms of the Wheeler & Wilson Manufacturing Company, for the sale of their Sewing Machines, is removed to No. 348 Broadway, where the public are invited to call and examine them in practical operation. 31 13*