

"M. W. S., of Mass."—The model of your mowing machine is received and has been examined. We are of the opinion that the principle of operating the cutters arranged upon a revolving bed, is new and patentable.

"Dr. H. C., of Mass."—We have referred to No. 9, and do not find Mr. Helton's name mentioned; perhaps you are mistaken in the Number.

"C. W. A., of Va."—We do not know of any such wells as those you speak of. If we come across such information we will notice it.

"N. S., of Ind."—There is no doubt but what the Furnace Blower which you describe is new, but whether it would pay you to make an application for a patent upon it, is for you alone to decide. If you could furnish us with a model, we could decide more definitely concerning the matter and answer your inquiries more fully.

"W. C. B., of N. Y."—Caveat fees are invariably \$20. We will consult with you and give our opinion of the invention, when you call upon us.

"E. T. of Ill."—The Camera and a copy of Ranlett's Architect were sent to Messrs. McNeil & Jerome, 69 Liberty street, several weeks since. A condenser for the purpose you name, would, we think, be valuable.

"W. P. C., of O."—Loadstone can be furnished at \$2 per pound, and black oxide cobalt at \$2 per oz.

"E. J. U., of O."—Your apparatus for milking cows by mechanical means is believed not to be patentable. Recommending it to be superior to the apparatus invented and patented by Knapp is not adding much to its reputation. The human hand is the best milker yet.

"J. G., of N. Y."—The patent would cost you altogether about \$50.

"H. P., of N. J."—You will find an article on the subject of friction on another page. By it, no difference it seems would be experienced in the amount of friction, if the whole weight of the 12 small shafts and 6 large shafts be equal. Whatever the difference in weight may be, then there will be a difference in friction.

"D. J., of Mass."—Why have you not answered our letter sent to you more than two months ago. We have your papers here.

"A. B., of Conn."—Yes, many plans have been tried and some are now in use for using the exhaust steam over, such as Wolfe's Engine. What will you gain by doing away with the lead off valve?

"A. A. F., of N. Y."—A tube of clay would not answer. The platina being the only metal indestructible in the fire, is the reason why it answers, but it cannot be done but at great expense. We sent the engraving to Mr. Paine, saying that it was unsatisfactory to us. He has promised to provide us suitable drawings.

"G. J. H., of Tenn."—By addressing a letter to A. K. Carter, at Newark, N. J., you will get the information you desire; also David Stone, of Dana, Mass., has a machine for turning spokes; his advertisement you will find in another column of the paper.

"G. B. M., of Texas."—The engravings of your engine were forwarded to your address, through Harper & Bros., on the 5th inst.

The specifications and drawings belonging to parties of the following initials, have been forwarded to the Patent Office since Jan. 25: J. S., of Mass.; J. S. S., of N. Y.; S. B., of Conn.; J. M. B., of N. Y.; H. H. O., of Conn.; J. T. D., of N. Y.; W. & P., of Pa.; G. B. W., of Mass.; R. L., of O.; T. H. & Sons, of N. Y.; J. W. R., of N. Y.; T. R., of N. J.; T. R., of Mass.; A. C. A., of Conn.; S. & L., of N. Y., and J. C. K., of N. Y.

Money received on account of Patent Office business, since Feb. 5, 1851:— R. B. & Son, of O., \$35; R. A. V., of N. Y., \$30; M. G. & Co., of Paris, \$9,50; S. I., of N. Y., \$30; S. & L., of N. Y., \$8; J. W. O., of O., \$30, and T. H. & Sons, of N. Y., \$25.

Patent Claims.

Persons desiring the claims 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 the year the patent was granted (adding the month of the year when convenient), and enclosing one dollar as fee for copying.

Standing Notice to Subscribers.

Henceforth, parties ordering the Scientific American will be supplied with the paper commencing at the time the order is received, unless they particularly mention that the back Numbers of the present Volume are desired. We have on hand over 3,000 sets of the Numbers already published, and shall be happy to furnish all new subscribers with complete sets whenever requested.

The present volume of the Scientific American will be the most valuable encyclopedia, or year book of inventions we have yet published, and every person ordering it should not fail to receive the back numbers, to render his volume complete.

Those desiring Volume 5 of the Scientific American, are informed that we are able to furnish a few complete volumes, (bound,) at \$2,75 each. Also, we can send by mail sets complete, (unbound,) for \$2. We would also say, that whenever our friends order numbers they have missed—we shall always send them if we have them on hand. We make this statement to save much time and trouble, to which we are subjected in replying, when the numbers called for cannot be supplied.

ADVERTISEMENTS.

Terms of Advertising:

One square of 8 lines, 50 cents for each insertion. " 12 lines, 75 cts., " " " 16 lines, \$1,00 " " " Advertisements should not exceed 16 lines, and not be inserted in connection with them at any price.

Patent Office.

NOTICE TO INVENTORS.—Inventors and others requiring protection by United States Letters Patent, are informed that all business relating to the procurement of letters patent, or filing caveats, is transacted at the Scientific American Office, with the utmost economy and despatch. Drawings of all kinds executed on the most reasonable terms. Messrs. Munn & Co. can be consulted at all times in regard to Patent business, at their office, and such advice rendered as will enable inventors to adopt the safest means for securing their rights. Arrangements have been made with Messrs. Barlow, Payne & Parken, Patent Attorneys, in London, for procuring Letters Patent in Great Britain and France, with great facility and despatch. MUNN & CO., 128 Fultonstreet, New York.

WILSON'S SEWING MACHINE.—New York Jan 17, 1851.—This is to certify that E. E. Lee, Esq., has made for our store several pairs of pantaloons, on his sewing machine, which we find to be done quite as well as is usually done by hand labor. G. P. & J. B. WILKINSON, Manufacturers of Clothes, 30 John st., cor. Nassau. 20 3*

WILLIAM W. HUBBELL—Attorney and Counsellor at Law, and Solicitor in Equity, Philadelphia, Penn.

IRON FOUNDERS MATERIALS.—Viz., fine ground and bolted Sea Coal, Charcoal, Lehigh, Soapstone, and Black Lead Facings of approved quality. Iron and Brass Founder's superior Moulding Sand, Fire Clay, and Kaoline. Best Fire Bricks, plain and arch shaped, for cupolas, &c. Fire Bricks cased and Sand Barrels, for exportation. By G. O. ROBERTSON, 4 Liberty Place, near the Post Office, New York. 22 3m*

MODELS AND PATTERNS.—The subscriber begs leave to inform inventors, machinists and others, that he is prepared to execute, in a first rate manner, and at short notice, all kinds of Models and Patterns. He trusts that his experience and strict attention to business will secure him a liberal patronage. Unquestionable references given if required. All orders strictly confidential. ROBERT F. BEEBEE, 131st st., near 4th avenue, Harlem. 22 2*

DEEP WELL BORING IN ROCK.—The undersigned, having been extensively engaged in this business for several years, on the great Kanawha River, Va., with entire success, offers his services to the public, in boring wells for gas, salt water, or any minerals, to the depth of 2,000 feet or more if required. Satisfactory references will be produced by addressing the subscriber (post-paid) at Kanawha Salines, Va., to C. W. ATKINSON. 22 2*

BROOM MACHINERY.—The most improved and durable machinery for the manufacture of Brooms, for sale by JACOB GRAY, Scotia, Schenectady Co., N. Y. Address post-paid. 22 6*

MATAPAN MACHINE WORKS.—Corner of Second and A sts., South Boston. The undersigned have recently enlarged their business and are now prepared to offer a great variety of Machinists' Tools, viz., Engine and Hand Lathes, iron Planing and Vertical Drilling Machines, Cutting Engines, Slotting Machines, and Universal Chucks; also Mill Gearing and Wrought Iron Shafting made to order. 22 12*

WORLD'S FAIR ART UNION.—Incorporated by the New York Legislature; shares \$5 each. Fifty Prizes. A Prize is a first cabin passage to London and back, and \$100 to pay expenses while in London. In addition every subscriber has a magnificent engraving of the interior of the Great World's Fair—really worth \$5. The subscription list is filling rapidly, and as the number of shares is limited by the charter incorporation, application for shares should be made forthwith. A remittance of \$45 will entitle the sender to ten shares. Remittances by mail will be at the company's risk. Drafts to be made payable to the order of the secretary. Funds current at the place whence sent taken at par. All letters must be pre-paid. Shares, or further particulars may be obtained on application, personally, or by paid letter, at the office of the World's Fair Art Union, 50 Wall st., N. Y. By order, J. TOWNSEND, Secy. 22 3*

THE NASHVILLE MANUFACTURING Company (chartered by the State of Tennessee) being now engaged in the erection of extensive machine works, wish to engage the services of a person thoroughly competent to manage the same. It is the intention of the Company to engage extensively in building locomotives, steam engines, &c. None but such as can furnish undoubted testimonials for skill, energy, and other requisites to fill the station, need apply. The Company also wish to employ a number of machinists, founders, &c., and would also receive propositions for the necessary tools, &c., for such an establishment. Immediate application, by letter or personally, to the undersigned, will meet attention. S. D. MORGAN, Pres't. Nashville Man. Co. Nashville, Tenn., Jan 17, 1851. 21 6*

TO LUMBER DEALERS.—Law's Planer having undergone important alterations, is now perfected and in successful daily operation, facing and matching at the same time, and in both respects, in a style not to be surpassed. The common objection that machines are expensive in repairs, is not applicable to these new machines—they are simple, strong, and easily kept in order. It is confidently believed that when they are well known they will have a decided preference over any other machine or mode of planing. Planing of all kinds done at short notice, corner of Water and Jay sts., Brooklyn. Law's Stave Machine dresses and joints staves of all kinds, shapes, and widths, by once passing through. Rights or machines for sale by H. LAW, 216 Pearl street, or after 1st March, at 25 Park Row. 21 8

PATENT RIGHTS FOR SALE.—Goodman's Improvement for Turning Irregular Forms.—This machine has been patented about two years, and is well adapted to turning spokes, laats, and handles; it differs from all other machines in having a combination of mandrels connected by gears, each of which holds one end of a stick to be turned, the other end being fastened by a common cent; e; over these hangs a cylinder, with cutters of sufficient length to come in contact with all the pieces to be turned, it being at right angles with them. Machines are now in operation which turn 4 spokes at a time, which will turn 50 an hour, leaving them better to finish than any other machine in use. For particulars, address DANIEL STONE, Dana, Mass. 48 5*

HUTCHINSON'S PATENT STAVE MACHINE.—C. B. HUTCHINSON & CO., Waterloo, N. Y., offer for sale town, county and State rights, or single machines, with right to use the same. This machine was illustrated in No. 2, Vol. 5, Sci. Am.; it will cut from 1,500 to 2,000 perfect staves per hour. We manufacture machines of different sizes, for keg, firkin, barrel and hoghead staves; also, heading shingle, and listing and jointing machines. These machines may be seen in operation at St. Louis, Mo.; Chicago, Ill.; Savannah, Ga.; Madison, Ia.; Ithaca, N. Y.; Waterloo, N. Y.; Bytown, C. W. Letters directed to us, post-paid, will receive prompt attention. 15 3m*

LEONARD'S MACHINERY DEPOT, 116 Pearl st., N. Y.—The subscriber has removed from 66 Beaver st. to the large store, 116 Pearl st., and is now prepared to offer a great variety of Machinists' Tools, viz., engines and hand lathes, iron planing and vertical drilling machines, cutting engines, slotting machines, universal chucks, &c. Carpenters' Tools—mortising and tenoning machines, wood planing machines, &c. Cotton Gins, hand and power, Carver Washburn & Co's Patent. Steam Engines and Boilers, from 5 to 100 horse power. Mill Gearing, wrought iron shafting and castings made to order. Particular attention paid to the packing, shipping, and insurance, when requested, of all machinery ordered through me. P. A. LEONARD. 15 3m

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., will have finished 2 Power Planers ready to ship by the 1st of Feb., that will plane 9 feet long, 31 inches wide, and 24 inches high, with angle feed; counter shaft, pulleys, and hangers, splining and centre heads, with index plate, and weigh over 5,000 lbs.; also 2 power planers that will plane 5 feet long, 22 in. wide, and 20 in. high, with counter shaft, pulleys, and hangers, and weigh 2,400 lbs.—These planers are 25 per cent. lower than any others built. Cuts can be had by addressing as above, post paid. 19 1f

WORLD'S FAIR, LONDON, in 1851.—ANDREW P. HOW, Civil Engineer and Machinist, 35 Mark Lane, London, England. Mr. How is a native of the United States, in the above named business in the city of London. He offers his services to those of his countrymen who may have any kind of steam or other machinery to be exhibited at the Great Fair. He will, if required, receive it on arrival, and do all that may be necessary towards its erection, &c. References in New York—Thos. Sewell, 701 Broadway; Joseph Barton, 516 Grand st. 16 8*

TO TIN PLATE AND SHEET IRON WORKERS.—ROY'S & WILCOX, Mattabessett Works, East Berlin Station, on the Middletown Rail Road, manufacture all kinds of Tools and Machines of the best quality, both in material and workmanship. This establishment being the only one where both tools and machines are manufactured, superior instruments are offered to the trade; all work warranted, with fair use. Agents in most of the principal cities of the United States and Canada. Orders promptly attended to. F. ROYS, E. WILCOX. Berlin, Conn., Nov. 1, 1850. 7 1amly

LINEN AND HEMP MACHINERY.—I am prepared to contract with companies or individuals for the building of machinery by which linen can be produced as cheap as cotton, from either unrotted hemp or flax; also for making rope or bagging of unrotted hem—the same machinery which I am now successfully using in the manufacture of kyanized cordage. O. S. LEAVITT. Maysville, Ky., Jan. 23, 1851. 21 4*

PATENT DREDGE BOAT.—The subscriber having obtained a patent for improvements on the Dredge Boat, offers to sell rights to build and to use his Patent Dredge Boat in any part of the United States; the excavating apparatus consists of twenty scoops, preceded by plows, receiving great pressure, and are capable of raising eight or ten cubic yards of mud or gravel per minute; the scooping apparatus may be fitted on an old steamboat or other vessel, for the purpose of removing bars or other obstructions to navigation. A working model may be seen by calling on the subscriber. JAMES CALLAGHAN, 20 10* No. 64 Spruce st., New Bedford, Mass.

NEW YORK, JAN. 16th, 1851.—We have appointed Warren Gale our Agent for the sale of A. B. Wilson's Sewing Machine rights in the State of Ohio. E. E. LEE & CO. The Subscriber will open an office in a few days, in Cincinnati, for the sale of rights of A. B. Wilson's Sewing Machine. All orders for machines or rights can be addressed to me, at Cincinnati. 19 4* WARREN GALE.

DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteeawan Company, having entered into an arrangement with the Patentee for the manufacture of the so-called Dick's Anti-Friction Press, are now prepared to execute orders for the following, to which this power is applicable, viz.—Boiler Panches, Boiler Plate Shears, Saw Gummers, Rail Straighteners, Copying and Sealing Presses, Book and Paper Presses, Embossing Presses, Presses for Baling Cotton and Woollen Goods—Cotton, Hay, Tobacco, and Cider Presses; Flaxseed, Lard, and Sperm Oil Presses; Stump Extractors, &c. &c. The convenience and celerity with which this machine can be operated, is such that on an average, not more than one-fourth the time will be required to do the same work with the same force required by any other machine. WILLIAM B. LEONARD, Agent, No. 66 Beaver st., New York City. 13 1f

MACHINES FOR CUTTING SHINGLES.—The extraordinary success of Wood's Patent Shingle Machine, under every circumstance where it has been tried, fully establishes its superiority over any other machine for the purpose ever yet offered to the public. It received the first premium at the last Fair of the American Institute—where its operation was witnessed by hundreds. A few State rights remain unsold. Patented January 8th, 1850.—13 years more to run. Terms made easy to the purchaser. Address, (post-paid) JAMES D. JOHNSON, Redding Ridge, Conn., or Wm. WOOD, Westport, Conn. All letters will be promptly attended to. 10 1f

GURLEY'S IMPROVED SAW GUMMERS.—For gumming out and sharpening the teeth of saws can be had on application to G. A. KIRTLAND, 205 South st., N. Y. 10 1f

CARD.—The undersigned begs leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers, and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubbs) and Swiss Files and Tools, also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English style, which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBENMANN, Importer of Watchmakers' and Jewellers' Files and Tools, and manufacturer of Mathematical Instruments, 154 Fulton street. 1 6m.

TO PAINTERS AND OTHERS.—American Anatomic Drier, Electro Chemical graining colors, Electro Negative gold size, and Chemical Oil Stove Polish. The Drier, improves in quality, by age—is adapted to all kinds of paints, and also to Printers' inks and colors. The above articles are compounded upon known chemical laws, and are submitted to the public without further comment. Manufactured and sold wholesale and retail at 114 John st., New York, and Flushing, L. I., N. Y., by QUARTERMAN & SON, Painters and Chemists. 22 1f

MACHINERY.—S. C. HILLS, No. 12 Platt Street, N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Kase's, Von Schmidt's, and other Pumps, Johnson's Shingle machines, Woodworth's, Daniel's and Law's Planing machines, Dick's Presses, Panches, and Shears; Mortising and Tenoning Machines, Belting machinery oil; Beal's patent Coband Corn Mills; Burr Mill, and Grindstones, Lead and Iron Pipe, &c. Letters to be noticed must be post paid. 10 1f

BAILEY'S SELF-CENTERING LATHE, for turning Broom and other handles, swelled work, chair spindles, &c.; warranted to turn out twice the work of any other lathe known—doing in a first rate manner 2000 broom handles and 4000 chair spindles per day, and other work in proportion. Orders, post-paid, may be forwarded to L. A. SPALDING, Lockport, N. Y. 21 1f

FOREIGN PATENTS.—PATENTS procured in GREAT BRITAIN and her colonies, also France, Belgium, Holland, &c., &c., with certainty and dispatch through special and responsible agents appointed, by, and connected only with this establishment.—Pamphlets containing a synopsis of Foreign Patent laws, and information that can be had gratis on application JOSEPH P. HIRSSON, Civil Engineer, Office 5 Wall street, New York. 7 1f

RAILROAD CAR MANUFACTORY.—TRACY & FALES, Grove Works, Hartford, Conn. Passage, Freight and all other descriptions of Railroad Cars, as well as Locomotive Tenders, made to order promptly. The above is the largest Car Factory in the Union. In quality of material and in workmanship, beauty and good taste, as well as strength and durability, we are determined our work shall be unsurpassed. JOHN R. TRACY, THOMAS J. FALES. 16 1f

FOWLERS & WELLS, Phrenologists and Publishers, Clinton Hall, 131 Nassau st., New York—Office of the Water Cure and Phrenological Journals. Professional examinations day and evening. 3 6m

MANUFACTURERS' FINDINGS and Leather Binding.—The subscriber is prepared to offer a large assortment of manufacturers' Findings for Cotton and Woollen Factories, viz., bobbins, reeds, harness, shuttles, temples, rockers, harness twines, varnish, roller cloth, card clothing, card stripper and clamps, calf and sheep roller, leather, lace, and picker string, potato & wheat starch, oils, &c. Leather Banding, of all widths, made in a superior manner from best oak tanned leather, riveted and cemented. P. A. LEONARD, 116 Pearl st. 15 3m

UNITED PATENT OFFICE IN PARIS AND LONDON.—GARDISSAL & CO., 9 Arthur st., west, city, London; Paris, 29 Boulevard St. Martin.—Procuration of Patents for England, Ireland, Scotland, France, and all countries; and transactions of all business relating to patents, (sale and license,) specifications, oppositions, &c. "The Invention," monthly journal, \$1 a-year. 15 4m*

LAP-WELDED WROUGHT IRON TUBES for Tubular Boilers, from 1-4 to 7 inches in diameter. The only Tubes of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine, and other Steam Engine Boilers. THOS. PROSSER & SON, Patentees, 28 Platt st., New York. 16 1f

STRAW CUTTER FOR SALE.—We have on hand one of Macomber's Improved Straw Cutters, patented Nov. 5, 1850, illustrated in No. 50, Vol. 5, Sci. Am. Price \$10. Address MUNN & CO. 10 1f

THE SUBSCRIBER is now finishing four 14 horse engines, with boiler and apparatus all complete—price \$1,200 each. Several 6 horse engines extremely low; also, several of smaller capacity, complete; also, several power planers, now finishing—Galvanized chain for water elevators, and all fixtures—price low—wholesale and retail. Orders, post-paid, will receive prompt attention. AARON KILBORN, No. 4 Howard st., New Haven, Conn. 18 10*