

TO CORRESPONDENTS.

"T. H., of N. Y."—The reception of your papers, model, and fees, has been acknowledged by the Patent Office, and you may expect to hear the decision in a few days.

"G. A. G., of Pa."—The Alcott lathe is not adapted for turning so small a matter as rake teeth.

"H. D. D., of Mass."—The information you solicit we are unable to give—we are unacquainted with either invention.

"A. L., of R. I."—Mr. Stephen Frink, of Newark, N. J., manufactures "bone mills" of any capacity. By addressing a line to Mr. Frink, as above, the information you solicit may be obtained.

"T. V. T., of Pa."—Your letter, enclosing \$2, was duly received, and credited on account of subscription. If the information you require would not take more than a week's time to obtain, we would try to get it for you, but the quantity of questions you have the audacity to ask, for a new subscriber, does entirely nonplus us.

"J. C. S., of N. Y."—The arrangement of your carriage body and combination of the springs, is believed to be new and patentable; it is a novel arrangement, and would operate well, we think, on light wagons.

"G. H. R., of Tenn."—We could not procure for you a single number of Arnott's Architecture, so we credit the 31 cts. on your subscription to the Scientific American. The work of Arnott's is complete now, and single numbers can no longer be obtained.

"I. A., of Pa."—We do not believe that you would be likely to get a patent for the improvement. It is very difficult to get one on tools of that kind—we know this from experience.

"J. Y. M., of S. C."—Mifflin is ready; its cost is \$1; Daniels & Smith, Philadelphia, are the publishers. Gutta percha will answer for the water pipes in a stream subject to tide water.

"J. F. W., of Mass."—There is a machine for pegging boots in Lynn, Mass. We have seen one for the heels. You could not get a patent.

"J. W. H., of Mass."—The price of Bourne's Catechism is 75 cents.

"A. S., of St. Louis."—We will be able to get a list of the articles at the Fair, but it will be quite a large book and very expensive. We could not tell you whether you could get a patent for the improvement in soap or not; you can only patent the articles to produce the effect, and we don't know what they are. To produce such a good effect as that you speak of, we should judge that you had something new and patentable. We say the same about the tallow. Each patent would cost you at least \$50.

"H. W. H., of N. H."—If it be possible we may, at some future time, accede to your request about the figures for teaching drawing. We will send you a small copy of the book you speak of, but how are we send it. We do not sell the work any more.

"W. C. C., of —."—Your method of hanging gates is different from the one referred to.

"X. X., of Md."—Your improvement is, without doubt, patentable, at least we know of nothing like it; the first step necessary is to construct a model and forward it to this office; you will then be advised as to the expense of obtaining Letters Patent; the model should be made as compact as possible.

"J. S., of Ind."—The numbers of volume 4 you desire, cannot be furnished.

"H. B. of O."—The Alcott Lathe is just the machine you need to facilitate your business.

"J. S. H., of Mass."—We cannot supply you with the lenses; you can obtain them from John Roach, optician, 80 Nassau street. The information about the school we publish in this number.

"J. A. R., of N. H."—Your lathe was sent on the 2nd inst., as directed.

"E. F. D., of Ohio."—We shipped your lathe on the 2nd, by the Pittsburg Transportation Co., care of O'Conner, Atkins & Co., Cincinnati—receipt sent by mail.

Money received on account of Patent Office business, since Jan. 7, 1851:—

J. W., of N. Y., \$75; J. C. K., of N. Y., \$8; J. R. T., of Ohio, \$35; E. G., of Mass., \$25, and W. & P., of Pa., \$30.

The specifications and drawings belonging to parties of the following initials, have been forwarded to the Patent Office since last acknowledged in the Scientific American, and the respective fees paid:—

H. N. DeG., of N. Y.; U. P. of Conn.; G. D., of O.; S. N. M., of N. Y.; C. B. H., of N. Y.; L. A. S., of Pa.; L. I. W., of R. I.; J. W. O., of Ohio; E. G., of N. Y.; W. M. S., of N. Y.

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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.

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Patent Office.

123 FULTON ST.

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., 123 FULTON STREET, NEW YORK.

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, lasts, 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 cone; 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. 18 5\*

1851 TO 1856.—WOODWORTH'S PATENT PLANING MACHINE.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns, continues to be dressed with Woodworth's Patent Machines, which may be seen in constant operation in the steam planing mills at Boston, Philadelphia, New York, Jersey City, Williamsburgh, Brooklyn, Albany, Troy, Utica, Rome, Syracuse, Geneva, Rochester, Lockport, Buffalo, Elmira, Pittsburg, Jamestown, Gibson, Binghamton, Ithaca, &c. &c. The price of a complete machine is from \$100 to \$1,000—according to size, capacity, and quality. Persons holding licenses from the subscriber are protected by him against infringements on their rights. For rights to use these machines in the Counties of Queens, Richmond, Suffolk, and Westchester, and the other unoccupied counties and towns of New York, and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 18 4\*

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

FOR SALE.—A small Steam Engine and Tubular Boiler, of one horse power, in complete order. Apply at No. 12 Spruce st., 3rd story. 15 3\*

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.

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 hogshead 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 2m

TO IRON FOUNDERS, &c.—Fine ground and bolted Foundry Facing, viz.: Sea Coal, Charcoal, Lehigh, Soapstone, and Black Lead. Fire Clay, Fire Sand, Kaolin, and Fire Brick; also Iron and Brass Founder's superior Moulding Sand, in barrels, or otherwise, for sale by G. O. ROBERTSON, New York. City Office, 4 Liberty Place, Liberty street, near the Post Office. 13 6\*

WANTED—By a Southern foundry and machine shop, in a healthy and desirable location, a man who is practically acquainted with, and fully experienced in the inside management and conduct of a foundry and machine shop. The establishment is large and requires for the office a man fully qualified as a designer and draughtsman, and thoroughly acquainted with, and experienced in engine and mill works of all descriptions. To a party who can furnish the very best testimonials from undoubted sources, of the highest qualifications, and who may render satisfaction, permanent employment will be given, none other need apply. A bond of five thousand dollars with approved security for faithful and competent discharge of duty will be required. The salary will be from \$2000 to \$3000, dependent upon the reputation, general experience, and character of the party. All communications will be regarded, strictly confidential. Address, with real name, post-paid, box 664, New York City. 17 5\*

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\*

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 1/2f

BARNUM'S PATENT PLANING MACHINE.—These machines, while they possess equal facilities with any other, for planing coarse lumber for flooring, &c., removes all the objections urged against machine planing, for ship and steamboat building, or fine ceiling, &c., by finishing the material with the grain, fully equal to hand planing, leaving no indentations on the surface of the board (as in all machines using pressure rollers in planing, by the chips and knots collected passing between the planed surface and weighted feed rollers, thereby destroying fine work, designed for painting, &c.) as there is no appliance whatever on the planed surface. Contracts may now be made for their construction or use, or for the formation of a joint stock company or companies, in any part of the U. S., to successfully prosecute the business by applying to DANIEL BARNUM, Snowden's Wharf, Philadelphia, where the machines may be seen in constant operation. 14 6\*

DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteawan Company, having entered into an arrangement with the Patentees 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 Punches, 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 1/2f

WATER POWER FOR SALE OR TO LEASE.—55 miles from New York, and 3 miles from the Harlem R. R. Depot at Croton Falls. There is a never-failing stream of water, with a fall of 200 feet in one-third of a mile, and about 150 horse power, without any cost of damming or danger from floods. It is a fine situation for a series of small manufacturing and mechanic employments requiring motive power. There are on the premises, consisting of 11 acres of land, a riat and plaster mill, with three runs of stones, and a dwelling house. The country is healthy, fruitful, and picturesque. Enquire of T. R. LEE, Croton Falls. 15 6\*

THE SUBSCRIBER is now finishing four 14 horse engines, with boiler and apparatus all complete—price \$1200 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\*

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 1/2f

SCRANTON & PARSHLEY.—New Haven, Conn., will have finished by the 15th of December, 12 Engine Lathes of 8, 10 and 12 feet beds, and weigh 1500, 1650, and 18 lbs; price \$200, \$220 and \$240. These Lathes are from a new set of patterns, and are greatly improved from their former small size lathes; they swing 21 inches, and have backward screw gearing, centre rest, follow rest, drill, chuck and overhead reversing pulleys, all hung in a cast iron frame, ready for use. On and after the first of Dec., by addressing as above (post paid) cuts can be had of these, with index card, showing the different pitch threads that these lathes will cut. Two of the power planers heretofore advertised in this paper, are now ready to ship to the first order; they weigh from 4500 to 4600 lbs., when finished. 9 1/2f

A 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 (Stubs) 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. 9 1/2f

MACHINERY.—S. C. HILLS, No. 12 Platt Street, N. Y., dealer in Steam Engines, Boilers, Iron Planers, Lathes, Universal Chucks, Drills, Kases, Von Schmidt's, and other Pumps, Johnson's Shingle machines, Woodworth's, Daniel's and Law's Planing machines, Dick's Presses, Punches, and Shears; Mortising and Tenoning Machines, Belting, machinery oil; Beal's patent Cob and Corn Mills; Burr Mill, and Grindstones, Lead and Iron Pipes, &c. Letters to be noticed must be post paid. 10 1/2f

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. These lathes are simple in construction, not liable to get out of repair, and will do enough more than other lathes, in three months' use, to pay their cost. One of them may be seen at the office of Munn & Co., New York. Price of Lathes for turning broom and hoe handles, rake stales, scythe snaths, Windsor and cottage chair legs and pillars, \$100, with one set of tools; \$125 with two sets. Laths for turning chair spindles, whip stocks, gun rods, &c., complete, \$75. Orders, post-paid, may be forwarded to L. A. SPALDING, Lockport, N. Y. 9 3m

IMPORTANT NOTICE TO CONFECTIONERY MAKERS.—Whereas, a patent was granted to the undersigned, Oct. 8th, 1850, for an improvement in the manufacture of Confits, and from certain knowledge which he has received, he believes that parties are using it without his consent. Vigorous measures are now being taken to ascertain who the unprincipled parties are, in order that they may be dealt with according to law. This notice is to warn all not to infringe the patent, as it is not the intention of the patentee to dispose of rights. Parties using it will have no authority. W. H. HOLT, Patentee. Hartford, Conn., Nov. 25, 1850. 11 9\*

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 can be had gratis on application to JOSEPH P. PIRSON, Civil Engineer, Office 5 Wall street, New York. 7 1/2f

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 1/2f

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PATENT RIGHTS FOR SALE.—The inventor of the patent "Cut-Off," illustrated in No. 14, Scientific American, desires to effect sales of rights—town, county and State rights will be sold on reasonable terms. Address G. B. MILNER, Houston, Texas, post-paid. 15 4\*

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

LAP-WELDED WROUGHT IRON TUBES for Tubular Boilers, from 1 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. TROSB. PROSSER & SON, Patentees, 28 Plattst., New York. 16 1/2f