

TO CORRESPONDENTS.

G. S., of Ind.—John Rosob, optician, No. 79 Nassau st., manufactures good daguerrotype apparatus, also James Green, 422 Broadway.

S. D. M., of Pa.—The Wilson Sewing Machine would probably answer your purpose better than any other, if you wish it for family sewing or for a small tailoring establishment. Lerow & Blodgett construct a good machine, but theirs is better adapted for large establishments.

P. R. & Co., of O.—For the same device as yours, see engraving of David Anthony's patent Horse Power, on page 393, Vol. 3, Sci. Am. Mr. Anthony's claim covers all the parts found in your machine; see page 12, same Vol.

J. R. L., of Fla.—You are in an error as regards the first principles of ballooning, it is apparent from your communication. Had we time we could quote from those who had lived ages before you were born, who had precisely the ideas you advance, but, like yourself, they were never quite able to demonstrate the thing by experiment.

L. B. G., of Pa.—If such a claim as you mention would answer your purpose, we think a patent might probably be obtained for you. Send in your model and let us see that.

H. G. H., of N. C.—Your name we have entered upon our subscription book, and have sent the back numbers as you requested. Your subscription will not expire again until the end of Vol. 8. The information you solicit concerning Kirkpatrick's Threshing Machine we cannot give.

W. H., of Ind.—Your letter, with funds, came duly to hand.

G. W. C., of Ind.—Scott's Engineers' and Mechanics' Assistant is the work you need: price \$24, 2 Vols. You can order it through our office if you desire it.

W. P., of N. Y.—You are not quite correct, for the rollers and the water are different—the logs are partly submerged—but the analogy is nearly correct.

B., of Boston.—Yours will be attended to.

E. M. C., of R. I.—"Momentum" and "quantity" of "motion" are synonymous—it is the product of the mass by the velocity. In estimating the momentum of two moving bodies, we multiply the virtual velocity of each into its weight. If the large ball has a velocity of 3 feet per second, and the small one 6 times that, it comes to about the same thing. The other part to which you refer, was noticed the day before your letter was received, and will be set right.

L. T., of N. Y.—Malleable iron is manufactured at Worcester, Mass., by Macfarlane & Co., but yours is quite a new process, and we believe a good and patentable one.

R. C., of Phila.—If an assignment of a patent is not recorded in the Patent Office three months after date, it does not affect the right of the assignee, it does not go back to the patentee. The neglect of recording only prevents the assignee from suing for infringement until it is recorded. You must sue for your notes.

J. W. O., of N. Y.—We received yours on the "Sci. Men.," but waited for the completion of the record from you before commencing to publish. Will you send the second part soon?

C. S. J., of Cin.—If the application for the patent was not made for two years after the said machine was exhibited, it might be considered an abandonment of the invention, but this could only be decided at a court of law. We believe the patentees would be successful against you, and would advise you to be cautious in the matter.

S. H. N., of Phila.—The hydraulic machine you refer to, was nothing more nor less than a rotary water engine, like Hale's. We have seen Hale's operate by steam, and also by a Croton water pipe. The power of the machine is according to the quantity of water and height of the fall.

G. W. P., of Williamsburg.—You are perfectly right; the "water pendulum," as it has been termed, is familiar to astronomers.

J. B., of N. J.—The government has published no work on explosions since 1848. The best way to collect statistics on the subject, is to perse files of some daily papers.

B. H., of N. Y.—A moving horizontal cutter and pressure rollers, is not patentable, neither is it an infringement; it is old and is not to be compared with the revolving cylinder.

T. H. S., of M. D.—The owners of property in Broadway object to a railroad in toto, on account of private carriages, not omnibuses. It would do no good to publish your letter.

H. H. H., of N. Y.—If you will peruse the second volume of the Scientific American, you will find a complete series of articles on various kinds of painting, among which is a chapter on water colors well worth your attention.

S. T. J., of Mass.—The engravings for your invention will cost \$10, and will be of ten times that benefit to you.

R. K., of N. Y.—We have no doubt but you have lost a valuable patent, all because you were too slow about applying for it. Your friends gave you bad advice.

S. R. T., of Mass.—We cannot publish any more about the pendulum experiment at present—enough said.

A. J. H., of Pa.—The water-wheel about which you speak is exactly like some rotary engines: it is not, by any means, so good as any one we have presented in the articles on Hydraulics.

T. J., of Ohio.—You need not be afraid of the atmosphere getting on fire—the thing is impossible. It makes no matter what people may say about gas light, carbon is the main constituent.

J. C. S., of N. Y.—Yours on the raft has been received and will be published next week. It will be very difficult to base a claim on the form of the hull, but if it is new and useful it is patentable: the shape itself is patentable, also the mode of producing the proper form.

W. Mt. E., of N. Y.—There is Parnell's Applied Chemistry, which is valuable on coal, oil, and other gases; the price is \$15. Johnson on American Coals is a U. S. Report, and is a good one—not sold. Knapp's Chemistry is \$4 per volume, and is good on caloric and the gases. The best work on caloric—the use of fuel—is a French work, the name of which we forget; if you could get the evidence adduced before Chancellor Walworth, on the Wheeling Bridge Case, you would get much of the information you desire.

J. S. M., of O.—Our correspondence is so large that it is difficult to answer letters. The flax movement description was from the London Mechanic's Magazine. We have got a full description, but it would require us to write you a number of pages to give you the proper idea.

J. A. S., of St. Louis.—Your tale is well told and interesting, but not of universal interest enough to bear publishing in the Sci. Am.

W. H. C., of Mass.—We are obliged to you for directing attention to the error; it should have been three times instead of four, as it acquires the velocity of 32 feet per second, which, if added to the 16, makes 48 feet. It will be corrected.

Money received on account of Patent Office business since June 10:

E. S. C., of Mass., \$15; R. W. P., of Mass., \$25; G. A. W., of Pa., \$30; G. H. K., of Ill., \$3.50; R. M. F., of N. Y., \$40; N. S., of N. Y., \$20; A. R., of Vt., \$100; E. G. B., of Me., \$10; T. H. D., of N. H., \$20; E. B., of N. Y., \$25; G. S., of O., \$10; C. S. G., of Vt., \$30.

Specifications and drawings of inventions belonging to parties with the following initials, have been forwarded to the Patent Office since June 10:

R. W. P., of Mass.; E. S. C., of Mass.; G. H. K., of Ill.; R. M. F., of N. Y.; G. S., of O.; C. S. G., of Vt.

Post Office Stamps.

In consequence of the change of rates on the first of next month, we would respectfully notify the public that henceforth, until further notice, Post Office Stamps will not be received at this office in payment for subscriptions to the Scientific American.

New Edition of the Patent Laws.

We have just issued another edition of the American Patent Laws, which was delayed until after the adjournment of the last Congress, on account of an expected modification in them. The pamphlet contains not only the laws but all information touching the rules and regulations of the Patent Office. We shall continue to furnish them for 12 1/2 cts. per copy.

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 enclosing one dollar as fee for copying.

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 Volumes 1, 2, and 3—none. Of Volume 4, about 20 Nos., price 50 cts. Of Volume 5, all, price, in sheets, \$2; bound, \$2.75. Of Volume 6, all back Nos., at subscription price.

ADVERTISEMENTS.

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Advertisements should not exceed 16 lines, and out cannot be inserted in connection with them at any price.

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 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 preliminary research can 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. In the item of charges alone, parties having business to transact abroad, will find it for their interest to consult with us, in preference to any other concern. MUNN & CO., Scientific American Office, 128 Fulton street, New York.

SCRANTON & PARSHLEY, Tool Builders, New Haven, Conn., having had many applications for castings from their lathe patterns, with beds planed and screw and gearing out, have now made arrangements to accommodate that class of customers; this arrangement will enable small shops, with a little more than half of the amount of ready cash, to get them a new lathe. Cuts of these lathes and other tools can be had by addressing as above (post-paid). N. B. Machinists' tools constantly on hand. 331f

MECHANICS' FAIR.—The Middlesex Mechanic's Association will open their first exhibition for the encouragement of the mechanic arts and manufactures in the city of Lowell, on Tuesday, Sept. 16, 1851. The Committee of Arrangements for this proposed Fair, respectfully invite and solicit all persons engaged in the various branches of mechanism, manufactures, science, and art, to present specimens of their various products for exhibition and premium. Ladies are cordially invited to present specimens of their ingenuity and taste. Premiums will be awarded as the articles presented may merit. Articles for exhibition should be sent on or before Sept. 10th. For more particular information or copies of the circular, address (post-paid) J. A. Beard, Esq., Supt., Lowell, Mass. By order, OLIVER M. WHIPPLE, Chairman. M. C. BRYANT, Sec'y. 40 G*

SCHOOL FOR ENGINEERING. 650 Houston st., N. Y.—Mr. VICTOR BEAUMONT, Civil Engineer, graduate from "L'Ecole Centrale des Arts et Manufactures," of Paris, is about opening a new course of lessons in the French and English languages, in all the branches, theoretical and practical, connected with Civil Engineering. For details and references apply at the School. 33 1/2*

LAW'S PLANER FOR PLANK, BOARDS, &c., is now attracting much attention on account of its effectiveness, the excellence of its work, its simplicity, and consequent economy. Machines are now in operation in Brooklyn, New York City, and at various points South and West. Rights or machines for sale by H. LAW, 23 Park Row. 35 tf

MECHANICS' INSTITUTE FAIR.—The attention of Mechanics, inventors, and artisans is especially called to the Polytechnic Exhibition, which will open at the rooms, cor. Bowery and Division st., on the 15th of May. Those who wish to exhibit models, machinery, &c., of mechanical skill, and those who would like to carry on permanently, any mechanical occupation that would be in any way curious or attractive to visitors, are requested to call on the Actuary. Steam power will be provided. Well-lighted, warmed, and airy rooms can be had on liberal terms. As this Exhibition is permanent, an excellent opportunity is offered to skillful mechanics to bring themselves into notice. Articles may be sent in immediately and will be taken care of and insured. Z. PRATT, Prest.; T. C. DODD, Actuary. 34tf

LEONARD'S MACHINERY DEPOT, 109 Pearl st. 60 Beaver, N. Y.—The subscriber is constantly receiving, and offers for sale, a great variety of articles connected with the mechanical and manufacturing interest, viz., Machinists' Tools—engines and hand lathes, iron planing and vertical drilling machines, cutting engines, slotting machines, bolt cutters, slide rests, universal chucks, &c. Carpenters' Tools—mortising and tenoning machines, woodplaning machines, &c. Steam Engines and Boilers, from 5 to 100 horse power. Mill Gearing, wrought iron shafting, brass and iron castings made to order. Cotton and Woolen Machinery furnished from the best makers. Cotton Gins, hand and power, and power presses. Leather Banding of all widths, made in a superior manner, from the best oak tanned leather. Manufacturers' Findings of every description—bobbins, reeds, shuttles, temples, pickers, card clothing, roller cloth, potato and wheat starch, oils, &c. P. A. LEONARD. 33tf

PATENT CAR AXLE LATHE.—I am now manufacturing and have for sale the above lathes: they will turn and finish six sets per day, weight 5,000 lbs., price \$600. I have also for sale my Patent Engine Screw Lathe, for turning and chucking tapers, cutting screws, and all kinds of common job work; weight 1,500 lbs., price \$225, if the above lathes do not give good satisfaction, the money will be refunded on the return of the lathe, if within six months. J. D. WHITE, Hartford, Conn. 3213*

COTTON MACHINERY FOR SALE.—Viz., 4 Filling Frames, almost new; 1-1/2 Strand Speeder; 1 Warper, 1 Sapper; 2 Wind-mill Fans; 1 Reel; 1 Yarn Bundling Press; 1 Band Machine, and a large lot of tin cans. Apply to ELI WHITELEY, New Haven, Ct. 37 6*

WOODWORTH'S PATENT PLANING MACHINES: 1851 to 1856.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's machines. Persons holding licenses from the subscriber are protected by him against infringement on their rights. For rights in the unoccupied counties and towns of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 28 7eow*

WOODWORTH'S PLANING MACHINE. For sale, the right to use this justly celebrated labor-saving machine in the following States, viz.: Pennsylvania west of the Allegheny Mountains, Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama, and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 364 Broadway. 38 10*

GREAT REDUCTION IN PRICE.—The most valuable book of the day, containing domestic and medical recipes, rules with regard to the recovery and preservation of health, an account of the different medical theories of the day, useful tables, &c., entitled "THE GRAEFENBERG MANUAL OF HEALTH." It is complete in one volume of seven parts, and is beautifully printed upon fine paper, in a convenient form of 300 pages. The immense success which has attended the sale of previous editions, has warranted a reduction in the price of this (the 7th) edition, from 50 to 25 cts. per copy. Any number of copies, from one upward, will be forwarded upon the receipt of the money. (post-paid). Address THE GRAEFENBERG COMPANY, 214 Broadway, N. Y., or this Office. 3tf

DR. S. B. SMITH'S TORPEDO ELECTRO Magnetic Machines.—These machines differ from all other electro-magnetic machines. The inventor has made an improvement by which the primary and secondary currents are united. The cures performed by this instrument now are, in some instances, almost incredible. For proof of this I refer to my new work lately issued from the press, under the title of "The Medical Application of Electro Magnetism." Mail edition, 25 cents. Postage, 6 cents. The Torpedo Magnetic Machines are put up in neat rosewood cases of a very portable size. Price, \$12. To agents they are put at \$9. Postmasters, druggists, storekeepers, and all who are willing to be instrumental in relieving the sick, are respectfully invited to act as agents. Address Dr. S. B. SMITH 297 1/2 Broadway, N. Y., or MUNN & CO., 128 Fulton st., N. Y. Can be sent by Express to all parts of the Union. 29 4*

MECHANICAL DRAWINGS.—The subscriber, having returned to the city, will resume his business as Mechanical Draughtsman and Agent for the sale of Patents. Residence West Fifteenth st., first house east of Sixth av. J. H. BAILEY. 39 2*

A CARD.—The undersigned beg 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 st. 29 3m*

DICK'S GREAT POWER PRESS.—The public are hereby informed that the Matteswan 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 Punches, Boiler Plate Shears, Saw Gummers, Rail Straighteners, Copying and Sealing Presses, Book and Paper Presses, Embossing Presses, Presses for Baling Cotton and Woolen 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. 25tf

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. 37tf

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

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 35tf

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, Daniels' and Law's Planing machines, Dick's Presses, Punches, and Shears; Mortising and Tenoning Machines, Belling, machinery for oil; Seal's patent Cob and Corn Mills; Burr Mill, and Grindstones, Lead and Iron Pipe, &c. Letters to be noticed must be post paid. 35tf

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. 21tf

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LATHES FOR BROOM HANDLES, Etc. We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles, and Broom Handles. This Lathe is capable of turning under two inches diameter, with only the trouble of changing the die and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch, and work as smoothly as on a straight line, and does excellent work. Sold without frames for the low price of \$25—boxed and shipped, with directions for setting up. Address, (post paid) MUNN & CO., At this Office.

STEAM ENGINES AND BOILER.—Several Steam Engines, now finishing, from five to fourteen horse-power; also one of 15 and one of 25. Having just enlarged my manufactory, I am now prepared to make all sorts, from 2 to 50 horse-power, of the best materials in all their parts. One second-hand engine of 8 horse-power, two cylinders, in good order, for sale, with new boiler, \$375. Also Galvanized Chain for chain-pumps. AARON KILBORN, No. 4 Howard st., New Haven, Conn. 3210*

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WATTS & BELCHER, Manufacturers of Steam Engines, Lathes, Planing Machines, Power Presses, and Mechanics' Tools of all descriptions: Washington Factory, Newark, N. J. 35 13*