

TO CORRESPONDENTS.

H. G., of Ill.—Your letter covering \$21 for subscribers was duly received. We have entered all the names for 1 year each, and sent as many back numbers to the first six on your list as we have got, and regret very much that we cannot furnish them complete.

W. & Co., of Ohio.—We have no one cent stamps to send, and have applied the dollar received from you towards the continuation of your paper.

J. T., of Md.—Your advice is not appreciated, and we very much question the motive that induced your remarks.

W. H. M., of Ind.—The engravings of your invention will appear in the next number.

R. McK., of Ind.—A pamphlet will be issued in a short time containing useful receipts at a low price. The majority of receipts published in books are not correct.

T. T. G., of Pa.—You should write to the Patent Office for such information as you solicit of us. If you have been swindled by your agent we regret your misfortune, but cannot intercede in your behalf until you have first withdrawn your business from his hands.

H. L. A., of Wis.—You are correct about the cooling of the cylinders with the cold water. You can avoid this by using a steam engine of the usual form, one double-acting cylinder, and a double-acting pump. You will thereby have just the same parts in your engine.

J. J., of Miss.—Your engine at that pressure will be about 4 horse power. The power will be found out by multiplying the pressure in pounds on every square inch of piston into its velocity in feet per minute, and dividing by 33,000.

A. C. C., of Mass.—Yours is such a case that we could not say much about it. There are persons in Boston who are very enterprising about such matters. We have seen a machine professing to accomplish the same thing.

J. S. S., of Phila.—Air cannot be employed in any manner to successfully compete with steam, it is too bulky, its nature is not the thing.

J. M. S., of Mich.—We cannot judge of your brake without the opportunity of examining a sketch. So many modifications having been made in brakes and the means of operating them that it is almost impossible for us to give a satisfactory opinion without.

J. de B., of Ohio.—J. B. Creighton, of Tiffin, Ohio, is the inventor of a machine for pulling stumps, which is capable, we should think, of performing satisfactorily. You might ascertain by writing to him.

T. & H., of N. C.—Messrs. Sarony & Major, of this city, could get you up a lithograph of carriages suitable for a show bill. You had better write to them about the matter.

J. H. C., of Pa.—There is nothing especially important in your "stump puller," however, publish it at some future time, for the benefit of all whom it may concern.

C. A., of Va.—The use of caloric as a substitute for steam, would undoubtedly prove a boon to mankind if made successful. We would gladly chronicle its triumphant success, but we are convinced that it is based upon a mechanical fallacy, which time is rapidly developing. We could not withhold our opinion and do justice to those who expect us to speak out. Among the most painful duties we are called upon to perform, is to oppose the claims of inventors, we must do it, however, when such claims are contrary to established facts, let the consequences be what they may.

O. D., of Ga.—There is such a contrivance as alluded to in the article in question, which may be thus briefly explained: a light bar is placed horizontally near the paper, and on it are secured two or more curved strips of steel, by slightly turning the bar these strips of steel serve as a species of rake to pull forward the paper and present it to the fingers. This motion is given at the proper time by a cam, and the operation is further assisted by a slight tilting motion which is given to the feeding board. It is not, however, to be inferred that this apparatus dispenses with a person for feeding, its object being merely to ensure correctness.

H. C., of Me.—It is possible that your "close analysis" of the Caloric Engine may turn out the same as in the case of the "Static Pressure." By reference to a letter you wrote us August 2nd, 1851, you make use of the same terms in approbating the claims of Sawyer & Co. We are probably more particular and less enthusiastic in our examination of scientific matter. Your advice might be useful if properly applied, but not needing it ourselves we must beg of you to withhold it for self-instruction.

C. A., of N. Y.—We are disposed to give you all proper credit for your exertions; the result of your labors are certainly commendable, and we are sorry that you have been anticipated by others.

Money received on account of Patent Office business for the week ending Saturday, April 9:—

H. S. W., of O., \$20; S. & McK., of N. Y., \$30; C. V. D. H., of N. Y., \$45; J. G. Jr., of Mass., \$60; J. O., of N. Y., \$25; P. K., of Ct., \$8; C. & Co., of N. Y., \$40; H. C. H., of N. Y., \$60; F. D., of Va., \$55; H. B., of Ct., \$25; D. E. McD., of N. Y., \$50; G. B. Jr., of N. Y., \$30; E. A. S., of N. Y., \$45; L. S., of N. Y., \$20; W. W., of N. Y., \$30; B. D. G., of Miss., \$20.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday April 9:—

P. & R., of Ill.; H. H., of N. Y.; J. T. D., of N. Y.; W. W., of N. Y.; R. M. F., of N. Y.; P. K., of Ct.; C. & S., of N. Y.; E. A. S., of N. Y.; H. B., of Conn.

ADVERTISEMENTS.

THE AMERICAN ENGINEER, DRAUGHTSMAN, and Machinist's Assistant, designed for practical workmen, apprentices, and those intended for the engineering profession, illustrated with 200 wood cuts, and 14 large engraved lithographic plates of recently constructed American machinery and engine work. By Oliver Byrne, 1 Vol., large 4 to. Embracing Mathematical and Drawing Instruments, Geometrical Problems, Brackets, and Pillow Blocks, Lubricators, Electric Steam Gauge, Horse Power, Parallel Motions, Indicator, Safety Valves, High Pressure Steam Engines, Steamship Engines and Boilers, Rotary Engines, Locomotives, Screw Propellers, Ericsson's Caloric Engine, &c., &c., price \$5. The work will be sent to any part of the United States, free of postage, upon the receipt of the amount by mail, address C. A. BROWNE, & CO., publishers, N. W. Corner, of 4th and Arch streets, Philadelphia. 31 6*

WANTED.—By a young man just arrived from England, a situation in an Engineer's or land surveyor's office, or an engagement as superintendent of a section of Railway constructing. Best of references given. No objection to engage for any part of the United States. Address J. R., (care of Mr. Pierce) 5 Debevois st., Fulton Avenue, Brooklyn, N. Y. 1*

MELODEONS.—Patent rights for these instruments in several of the United States, are offered for sale upon reasonable terms. Patented in 1851. Have been thoroughly tested and will be warranted equal in all respects, and in some, superior to any yet offered to the public. Letters addressed MARVIN SMITH, New Haven, Conn., will receive prompt attention, references given. 31 3*

BALLOONS.—A splendid tri-colored French flag used several times, but in good order. Each of them large enough, when inflated with coal gas, to ascend with a man. Instruction given gratis. 31 4* JOHN WISE, Aeronaut, Lancaster, Pa.

TO IRON FOUNDERS.—For sale, three superb cranes, capable of raising 10 to 15 tons. 31 2 TREADWELL & PERRY, Albany, N. Y.

PIG IRON.—American and Scotch, of favorite brands; also Cupola Fire Bricks, Fire Clay, Sand and Foundry Facings of every approved description, for sale by G. O. ROBERTSON, & CO., office 135 Water street, (corner of Pine), N. Y. 31 6eow*

STAVE MACHINERY.—We manufacture the improved Mowry Stave Machine for slack work, cutting, dressing, and jointing, at one operation, without any handling of the stave until it is finished, after you place the bolt of wood upon the feeding carriage. The machine feeds itself, cutting, dressing, and jointing in a finished and uniform manner 30 to 100 staves a minute. Any kind of timber fit for a stave may be used, even such as could not be rived, ashelm, hickory, beach, &c. The cost of running the machine need not exceed, if it equals, 50cts per M, for cutting, dressing, jointing, removing, and piling up, where a machine is kept steadily at work. For machinery and rights in the State of New York, apply to CHAS. MOWRY, Auburn, N. Y.; for machinery and rights elsewhere, to the subscribers, GWYNNE & SHEFFIELD, Urbana, Ohio. 30tf

WANTED.—A situation as Superintendent of a Machine Shop, or of the locomotive power department on a railroad, by a capable man of 16 years' practical experience on locomotive engines, and who is a proficient draughtsman. Address "E. T. S.," care of V. B. Palmer, Newspaper Agent, Scallaly's Building, Courtst, Boston. 30 2*

MORTISING MACHINE.—"Dear Sirs, I received the Portable Mortising Machine about three weeks ago; I have used it, and am very well pleased with it; it is the best plan of a machine of the kind I have ever seen." W. R. McFARLAND, Nashville, Tenn., 1851.

"Since I have been a subscriber to your paper I have purchased one of your Mortising Machines, for which I would not take double its price and do without it." WM. M. FLEMING, Elizabethtown, Tenn., Jan. 8 1853.

This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20. MUNN & CO.

WANTED.—In an Architect's Office, in this city, two pupils to learn the business. For further particulars address EDSON & ENGELBERT, Architects, No. 85 Nassau street, New York. 30 2*

WHEELER, WILSON, & Co.—Watertown, Ct. proprietors and manufacturers of Allen B. Wilson's Patent Stitching Machine. Patented June 15, 1852, it can be seen at the Company's Office 265 Broadway, New York. 30 20*

CHILDS, TANTER & CO., Worcester, Mass., Builders of Daniel's Planers, with Read's feed motion, and J. A. FAY & CO's celebrated Woodworking Machinery. 24 8*

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, Taber's Water Gauge, Sewall's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, etc. etc. CHARLES W. COPELAND, 29 13* Consulting Engineer, 64 Broadway.

SAND PAPER, GLUE.—Excelsior Sand and Emery Paper. ABBOT'S Manilla Sand and Match Papers. Emery Cloth, Emery, Emery Grit, Pumice Stone ground and in lump, of very superior quality; also Glue of all grades, and in quantities to suit purchasers at the lowest manufacturers' prices, for sale by WILLIAM B. PARSONS, 284 Pearl street. 24 8*

LEE & LEAVITT.—Manufacturers of every description of Cast Steel Saws, No. 53 Water street, between Walnut and Vine, Cincinnati O. 27 6m*

1852 TO 1856.—WOODWORTH'S Patent Planing, Tonguing, Grooving, Rabbeting, and Moulding Machines.—Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price from \$150 to \$700. For rights in the unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 1amtf

TO ARTISTS, DESIGNERS, &c., one hundred dollars premium.—The government of the Massachusetts Charitable Mechanic Association having determined to procure a new diploma to be used at the Exhibition the present year, hereby offer a premium of one hundred dollars for the best original design of one Artist and others who may be disposed to compete, will please send their drawings to the secretary on or before Saturday the thirtieth day of April next. Each drawing must have some mark upon it, and must be accompanied by a sealed envelope, bearing a similar mark, and containing the address of the party sending it. For the design which shall be adopted by the executive committee the above premium will be paid. The other designs will be returned to their respective owners on demand. Any further information may be obtained by application to the Secretary. In behalf of the Government, FRED. H. STIMPSON, Secretary. Boston, Feb. 23, 1853. 29 3*

WOODBURY'S PATENT PLANING Machines.—I have recently improved the manufacture of my Patent Planing Machines, making them strong and easy to operate, and am now ready to sell my 24 inch Surfacing Machines for \$700, and 14 inch Surfacing Machines for \$650 each. I will warrant, by a special contract, that one of my aforesaid machines will plane as many boards or plank as two of the Woodworth machines in the same time, and do it better and with less power. I also manufacture a superior Tonguing and Grooving Machine for \$350, which can be either attached to the Planing Machine, or worked separately. JOSEPH P. WOODBURY, Patentee, Border st., East Boston, Mass. 29tf

THE NEW HAVEN MANUFACTURING Company, New Haven, Conn., having purchased the entire right of E. Harrison's Flour and Grain Mill, for the United States and Territories, for the term of five years, are now prepared to furnish said mills at short notice. These mills are unequalled by any other mill in use, and will grind from 20 to 30 bushels per hour of fine meal, and will run 24 hours per day, without heating, as the mills are self-cooling. They weigh from 1400 to 1500 lbs., of the best French burr stone, 30 inches in diameter: snugly packed in a cast-iron frame, price of mill \$200, packing \$5. Terms cash. Further particulars can be had by addressing as above, post-paid, or to S. C. Hills agent N. H. M. Co., 12 Platt st., N. Y. 28tf

THE NEW HAVEN MANUFACTURING CO. No. 2 Howard st., New Haven, Ct., are now finishing 6 large Lathes, for turning driving wheels, and all kinds of large work; these lathes weigh 9 tons, and swing 7 1-2 feet, shears about 16 feet long. Cuts and further particulars can be had by addressing as above, post-paid, or to S. C. Hills, agent N. H. M. Co., 12 Platt st., N. Y. 28tf

TO SASH OR CABINET MAKERS ABOUT to commence business.—A couple of young men acquainted with working sash or cabinet machinery possessing a small capital can hear of a good chance for business in a large and flourishing city, where there is no competition, and prices from 50 to 100 per cent higher than in New York or Boston. Address J. E. TURNBULL, Saint Johns, New Brunswick. 28 4*

BOSTON BELTING COMPANY.—No. 37 Milk Street, Boston, Manufacturers of Machine Belting, Steam Packing, Engine and Conducting Hose, and all other articles of Vulcanized Rubber, for the purpose of Belting and Manufacturing. 28tf

SPILLARD AND DODGE.—Arch Street Hall Brass Foundry, and manufactory of plumbers' brass; water, steam, and gas cock constantly for sale upon reasonable terms; 213 Arch street, Philadelphia, Pa. 26 8*

AARON KILBORN, No. 4 Howard st., New Haven, Conn., manufacturer of Steam Engines, Boilers, &c. Noiseless fan blowers and machinery in general. 25 10*

OLIVER'S WIRE WORKS.—No. 25 Fulton St., corner of Water. Locomotive Spark Wire, Patent Self-Setting Revolving Rat Traps; a new invented enclosed Coal and Ash Separator, and Wove Wire of every description. 28 4*

COTTON MACHINERY.—Of the most approved plans, from the best shops in the country:—drawings, specifications, and general arrangements for the machinery, furnished at the lowest rates, by W. B. LEONARD, and E. W. SMITH, 75 Merchants' Exchange, New York. 23tf

HARRISON'S UNEQUALLED FLOUR AND GRAIN MILLS.—Their frames and hopper are cast-iron, and the stones French Burr, 30 inches in diameter; grinds of wheat and corn 20 bushels an hour, weighs fourteen hundred pounds. These mills, constructed upon a new principle, have become widely known, and are producing a revolution in milling. Cash orders promptly supplied, and the mills warranted to work in the best manner. The patentee offers \$500 reward for any mill which will do an equal amount of work with the same power and dressing. Made and for sale at the corner of Court and Union streets, New Haven, Conn. by EDWARD HARRISON. 20 12*

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 dies 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.

HORSE STEAM ENGINE FOR SALE.—We offer for sale an Engine and Boiler, as follows: 8 horse, horizontal, cylinder 7 inches bore, 16 inch stroke, on a cast-iron bed, fly wheel, driving pulley, governor, pump, pipes, etc.; has never been used. The Boiler has been used by the maker about one year. It is cylinder, horizontal, 16 feet long, 30 inch diameter, has a steam chamber, try-cocks, check and safety valves: price, \$600. Address MUNN & CO.

FAMILY SCHOOL FOR BOYS.—Easton, Conn. Number Limited to Twelve. Summer Session begins May 2nd. Rev. C. T. Prentice, Principal. References for circulars, etc.—S. H. Wales, Esq., Scientific American Office; Rev. S. J. Prime, 142 Nassau st.; F. C. Woodworth, Esq., 118 Nassau st., and Capt. J. Brooks, Peck Slip, New York; George Sterling, and J. D. Johnson, Esqs., and Rev. Mr. Hewit, of Bridgeport, Conn.; Rev. Messrs. Atwater, of Fairfield, and Hall, of Norwalk, Conn. 29

BEARDSLEE'S PATENT PLANING Tonguing and Grooving Machines.—These celebrated machines have now been generally introduced in various portions of the United States. More than thirty are now in successful practical operation in the State of New York alone. As an illustration of the extent of work which they are capable of performing, with unrivalled perfection, it is sufficient to state that, within the last six months and a half, over five millions of feet of spruce flooring have been planed, tongued and grooved by one of these machines at Plattsburgh, N. Y., never running to exceed ten hours a day. The claim that the Beardslee machine was an infringement upon the Woodworth patent, has been finally abandoned; and after the proofs had been taken, the suit instituted by the owners of that patent was discontinued, and the whole controversy terminated on the first of November last. Applications for machines or rights may be made to the subscriber, GEO. W. BEARDSLEE, 57 State street, or No. 764 Broadway, Albany. 15tf

J. SLOAN'S PATENT HYDROSTAT.—For the Prevention of Steam Boiler Explosions. The undersigned having made extensive arrangements for the manufacture of these machines, are now prepared to receive orders for the immediate application of the same to boilers of every description. They have endeavored to place the instrument within the reach of all, by selling it at a very low price, the cost of one horse-power being only \$20, five horse-power, \$30, and so on, according to the capacity of the boiler. SLOAN & LEGGETT, Proprietors and Manufacturers, foot of East 25th st., New York. 30tf

P. N. FITZGERALD, Counsellor at Law, has recently resigned the office of principal Examiner of Patents, which he has held for many years, and is ready to assist, professionally, in the preparation and trial of patent cases before the U. S. Courts in any of the States, and before the Supreme Court of the United States. He also acts as Counsel in cases before the Patent Office, and on appeals therefrom, but does not prepare applications for Patents. Office corner of E and 8th sts., Washington, D. C. 18tf

MACHINERY.—S. C. HILLS, No. 12 Platt-st. 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, Punches and Shears; Mortising and Tenoning machines; Belting; machinery oil, Beal's patent Cob and Corn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be noticed must be post-paid. 27tf

A. B. ELY, Counsellor at Law, 52 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 16tf

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers. Also a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 27tf P. A. LEONARD

DAINTY, GILBERT & CO., Patent Paste, Gold Size, Zinc Drier, and Store Polish. QUARTERMAN & SON, 114 John st., Painters and Chemists. 27tf

BLACK LEAD CRUCIBLES and Melting Pots of any form, size and quality, made to suit customers, for 3 cents per number, and warranted equal to any of the kind manufactured in the world, by D. H. PURINTON, Somerset, Mass. 23 10*

PATENT DRAFT BOARDS.—With extension scales, sheet fasteners, and T rule. See Reports of Worcester Fair, Maryland State Fair, &c. &c. with their awards. \$10 complete. Sent by express. Address, post-paid, CHAMBERLIN & CO., Pittsfield, Mass. 16tf

THE TROY IRON BRIDGE CO. are prepared to erect Iron Bridges or Roofs, or any kind of bearing trusses, girders, or beams, to span one thousand feet or under, of any required strength, in any part of the country. Their bridges will be subjected to severe tests, and can be built for about the price of good wooden ones. Address BLANCHARD & FELLOWS, Troy, N. Y. 30 10*

NORCROSS ROTARY PLANING MACHINE, Decided by the Circuit Court not to infringe the Woodworth Machine—I now offer my Planing Machines at a low price; they are not surpassed by any machines as to amount or quality of work. Tonguing and grooving machines also for sale, doing one or both edges as desired; 80 machines now in operation. Address me at Lowell, Mass. 27 10* N. G. NORCROSS.

FALES & GRAY (Successors to TRACY & FALES), RAILROAD CAR MANUFACTURERS—Grove Works, Hartford, Connecticut. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 14*

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines, the best in use, and applicable alike to thick or thin staves; also his Head Cutting and Turning, and Stave Jointing Machines. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 9tf

J. B. WHITE'S PATENT CARAXLE LATHES—also Patent Engine Screw Lathes, for boring and turning to pers, cutting screws, &c. We manufacture and keep constantly on hand the above lathes; also double slide Chuck and common Hand Lathes, Iron Planers, S. Ingersoll's Patent Universal Ratchet Drill, &c. Weight of Axle Lathe, 5,500 lbs; price \$600; Engine Screw Lathe, 1,400 to 7,000 lbs; price \$225 to \$675. BROWN & WHITE, Windsor Locks, Conn. 27tf

COCHRAN'S CRUSHING MACHINE.—Can be seen in daily operation in Thirteenth street, between 9th and 10th avenues. Parties in want of a machine for crushing and pulverizing quickly and cheaply Quartz Rock, Iron, Lead, Copper, and Silver Ores, and other mineral substances equally hard, are invited to witness the operation of these powerful and simple, but yet effective machines. For further particulars apply to E. & J. BUSSING & CO., No. 32 Cliff st., N. Y. 23tf

PATENT LAWS OF THE UNITED STATES, and information to inventors and patentees; for sale at the Scientific American office. Price 12 1-2 cents.