

TO CORRESPONDENTS.

A. H., of Geo.—Upon receipt of the model we shall proceed with your business with as little delay as possible.

J. W. R., of N. Y.—Hollow grate bars, for feeding the water through them to the boiler, are not new; if you look on page 204, Vol. 3, Sci. Am., you will find them illustrated and described.

J. R. M., of Fla.—Your subscription will not expire until the 15th of Sept next.

W. A. G., of Va.—We do not think the "Model Calculator" would prove of any especial value to your profession. \$2 received on account of another year's subscription.

J. W. D., of Geo.—We think you can obtain the mill stone shaft from Messrs Logan, Vail, & Co., No. 7 Gold st., this city. They deal in all kinds of mill gearing. \$2 received.

J. C. S., of N. Y.—An application was made for an extension and re issue of Langdon's patents, one for planing boards, the other for shingles. They were both rejected on the 20th of February, but the parties interested were dissatisfied and submitted an argument for a re-examination, on the 4th of May they were again rejected—we think very justly. He claimed that which was not found in his original models or papers. The application was a singular one, and shows how far designing men will go sometimes.

J. H. E., of Tenn.—Your favor of the 11th inst. came duly to hand, and will command early attention.

H. C. T., of S. C.—Glad to learn of your success with the protector, and shall hope to hear from you again.

J. M., of Ohio.—Messrs. M. & J. H. Buck., of Lebanon, N. H., can furnish you with such a mortising machine as you enquired for.

J. E., of R. I.—It is probable that your improvement in looms for weaving counterpanes is new, we cannot, however, decide fully without a sketch.

F. B. H., of Ind.—The model we have returned to you at Indianapolis.

J. H. D., of N. Y.—The employment of a balloon to aid in sustaining a boat is an old exploded idea. No good can come out of it.

J. M., of Ohio.—A machine to peg boots and shoes would be valuable, providing it could be made effectual and cheap. We understand that machines for that purpose are in use in the Eastern States, but do not hear much of their practical character. We have no volumes back of the sixth. Price of Vol. 6 bound, \$2.75.

W. W. B., of Wis.—There is an instrument named the anemoscope for measuring the velocity and consequently the pressure of the wind. We have never known of it being used on shipboard, but it could be used. The velocimeter is an old instrument. You will find an engraving of the wind measurer on page 46, Vol. 6, Sci. Am.

V. E. R., of Ill.—We think your mill is new and patentable, and advise you to send a model.

L. D., of N. Y.—There is nothing at all new in the suggestion of pressing at both ends of a bale of hay or cotton. It has often been suggested.

W. B. S., of N. H.—It has been proposed to employ an india rubber bag in the air chamber. We have seen one used. It is best to have the chamber air-tight, and there is no necessity for any diaphragm.

D. T., of Canada.—Mr. Scott's subscription has expired. You Canadians must not forget that it costs us 11-2 cents postage on every paper which we send into Canada, and that such amount has to be abstracted from your remittances. \$2 pays for only 40 numbers when sent over the line into John Bull's dominions.

A. A., of N. H.—You mistake the centrifugal force and consider it different from the applied force; it is the applied force, and there is no such a thing as centrifugal force when the body is moving in a straight line.

N. B., of R. I.—We are not familiar with the arrangement for drying mentioned in the Cultivator, and can give no advice upon the subject.

O. L. R., of Geo.—We cannot advise you to file a caveat. When the model is finished send it on, of course we shall do the best for you we can.

S. S., of Ohio.—We do not apprehend any difficulty in getting a patent on the combination as set forth in section third of your drawing. It is totally different from Mr. Brown's invention.

G. M., Jr., of Ill.—You would see something about the extra bow in our last number, it is, however, very different in principle from yours. The principle of applying the air as a medium under the boat, was tried by R. L. Stevens, of this city, a few years ago; it was a failure, yours is a better plan, however, we think more favorably of it.

C. A. M., of Mass.—M. Roucher finds that calcined magnesia, if administered in time, is an efficacious remedy for poisoning by sulphate of copper. Eight parts at least of magnesia are required to one of the sulphate.

W. S., of Conn.—The common garden rhubarb contains a considerable amount of oxalic acid, and may not be regarded as a healthy diet. Its use, however, is limited.

D. S., of Ohio.—Dr. Wright, of Cincinnati, published a communication in Vol. 6, Sci. Am., in which he recommends coal tar as a good substitute to be employed in removing incrustations. It deprives the water of its saline matter.

R. H., of Miss.—In volume six, of the Sci Am., we published an illustrated series of articles on the water wheels. No doubt the information will be useful to you. The volume bound costs \$2.75.

E. S. P., of Va.—Your paper has been regularly sent since the receipt of your funds, and we cannot define a reason for its not reaching you properly.

Money received on account of Patent Office business or the week ending Saturday June 19:

A. R., of Mass., \$20; S. A. C., of Ct., \$50; P. B., of N. Y., \$55; C. G. B., of N. Y., \$30; N. G. D., of L. I., \$30; J. W., of Pa., \$50; E. & Co., of N. Y., \$40; P. McK., of N. Y., \$70; G. & S., of N. C., \$20; S. I., of N. Y., \$60; J. J. H., of N. Y., \$20; F. C. S., of L. I., \$30; C. W., of Ct., \$20; J. F. M., of Pa., \$30; S. W., of Ill., \$10; D. P., Jr., of N. Y., \$55; B. H. M., of Ind., \$32; W. S., of Pa., \$20; H. M., of N. Y., \$3,000.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 19:

A. R. of Mass.; J. R., of N. Y.; P. McK., of N. Y.; A. M. G., of S. C.; J. W. H., of N. Y.; J. J. H., of N. Y.; J. C., of Ohio; B. H. M., of Ind.; W. S., of Pa.; C. M. M., of Pa.

An Important Paragraph.

Whenever our friends order numbers they have missed—we always send them if we have them on hand. We make this statement to save time and trouble, to which we are subjected in replying when the numbers called for cannot be supplied.

The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.

Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

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 but 4 numbers, price, in sheets, \$1. Of Volume 6, all; price in sheets, \$2; bound, \$2.75. Of Vol. 7, all back numbers at subscription price.

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.

Patent Laws, and Guide to Inventors.

We publish, and have for sale, the Patent Laws of the United States. The pamphlet contains not only the laws but all information touching the rules and regulation of the Patent Office. Price 121-2 cts. per copy.

ADVERTISEMENTS.

Terms of Advertising.

Table with 2 columns: Lines for each insertion, Price. 4 lines, for each insertion, 50 cts. 8 " " " " 1.00. 12 " " " " 1.50. 16 " " " " 2.00.

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, 128 Fulton street, New York.

SHERRY & BYRAM'S AMERICAN CLOCKS, FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c. REGULATORS FOR JEWELLERS, and other styles, designed for Banks, Offices, etc., also Astronomical Clocks. The undersigned have introduced such improvements in the construction of their clocks, as to be enabled to warrant them the most durable and accurate (highest grade to vary less than two minutes in twelve months), of any others now in use. Glass dials for illumination furnished at short notice. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island, N. Y. "At the Oakland Works of Sherry & Byram there are made some of the finest clocks in the world."—[Scientific American. "Mr. Byram is a rare mechanical genius." [Tour of Commerce. 41 7eow*

EXCELLENT SAW GUMMERS FOR SALE.—Very low, by G. A. KIRTLAND, 205 South street, N. Y. 41

AN ENGINEER of good reputation in machinery, hydraulics, and mill work, can find a desirable location by addressing GEO. T. McLAUTHLIN & CO., 108 State street Boston. 41 2*

DRAUGHT BOARDS, PATENT—23 by 29 inches. Ready sales their best recommendation. Cheapest instruments in use. Complete for \$10. Sent by Express. Direct (post-paid) to H. W. CHAMBERLIN, Pittsfield, Mass. 40 tf

TO INVENTORS.—The subscribers will enter into arrangements, on the most reasonable terms, for furnishing Drawings, Patterns, and Models, believing that they have one of the most thorough and scientific men, in that line of business, to be found in New York. Their object is merely to fill up time, they not having sufficient work of their own to keep him in steady employment, and do not like to have him leave for fear they could not obtain his services when required. Apply at Dunlop's Manufacturing Empo.ium, No. 36 Gold street. 41 13* FRASER & EVERITT.

WANTED TO PURCHASE.—One Wool Card (single cylinder will do) for making rolls for hand spinning. Any person having one to dispose of may state the width, number of workers and strippers, condition of clothing, price, etc.; a second-hand one would do if not much worn. Address, post-paid, JOB RUSSELL, 41 3* Lewisville, Chester Dis., S. C.

MACHINERY IN THE GREAT EXHIBITION—22 Copperplate Engravings of the following subjects and numerous Woodcuts, are given in the Volume of the ARTIZAN for 1851, price \$3.50: Retort Settings (Croll's Patent) and Wet Lime Purifiers, for the Great Central Gas Works; Comparison of recent Improvement in Permanent Ways; Ryder's Forging Machine; Brown's Blooming Machine; Curvilinear Planing and Shaping Machine; Ericsson's Caloric Engine; Hydraulic Mine Lifting Machinery; Pumping Engine, by M. Mazeline; Samuel's Locomotive Feed Engine; Galloway's Patent Smoke-Consuming Water-Tube Boilers and Engines; Ship-ton's Pendulous Engine; Details of the Emperor of Russia's Yacht "Peterhoff," by Messrs Rennie, and of the Prussian War Steamer "Nix," armed on Mr. Scott Russell's Patent System; Carlson's Direct Acting Engines for the Screw; Long's Steering Apparatus; Details of a Swedish Ornamental Villa; Wigginton's Model Dwellings, ventilated on the best principle; large sheet of Designs for Architectural Ornaments in Fire-clay; Result of Experiments of the Commission on the Strength of Iron.

The four preceding volumes may also be had, containing an immense amount of practical information on Civil and Mechanical Engineering, Steam Navigation, Shipbuilding, &c. The Artizan may be had of any bookseller in the United States, by order, or any person forwarding an order for 16 shillings sterling (\$3.90) on any London house, will have it sent for a year by post. Address W. K. WRYTEHEAD, Consulting Engineer, office of the Artizan Journal, 69 Cornhill, London. 37 4eow

MARYLAND INSTITUTE FAIR.—The Board of Managers of this Institute will hold the Fifth Annual Exhibition in the Grand Saloon of the Institute Building, in the city of Baltimore, commencing on the 4th day of October next. The great facility thus afforded for a splendid display of American Manufactures, they hope, will be a sufficient inducement for the Manufacturers, Mechanics, Artists, Inventors, and others throughout the United States, to contribute such specimens of their industry, skill, and ingenuity, as shall be alike honorable and creditable to the mechanical genius and refined taste of the country. The Hall will be open for the reception of goods on Monday the 27th Sept next, from which time to Thursday night, Sept. 30, articles intended for competition and premium must be deposited. The balance of the week will be devoted to the reception of articles intended for exhibition only, free of charge. After which time depositors will be subject to a charge of 50 cents to \$1. On Monday, Oct. 4, at 7 o'clock, P. M., the Exhibition will be open for the reception of visitors. Circulars containing the regulations and arrangements established by the Standing Committee on Exhibitions, can be had by addressing (post-paid) JOHN S. SELBY, Actuary of the Maryland Institute, by whom any information required will be promptly given. 39 7

PATENT ALARM WHISTLE.—Indicators for speaking pipes, for the use of hotels, steamships, factories, store-houses, private dwellings, etc. etc. This instrument is intended to supersede the use of the bell, being more simple in its arrangement, more effective in its operation, and much less liable to get out of order, being directly connected with the speaking pipe, it requires no lengthy wires in its use, which are continually getting out of order or breaking. There have been several hundreds of them fitted up in this city and vicinity with the greatest success. They can be attached to pipes, which are already fitted up without damage to buildings, and for much less than the cost of a bell, and warranted to operate. The public are invited to call and examine them at the factory of the patentees. WOOLCOCKS & OSTRANDER, 57 Ann street, New York. State and County Rights for sale. 40 13

IRON FOUNDERS MATERIALS.—via: good American Pig Iron—grey, mottled and white; No. 1 Scotch Pig Iron, of favorite brands. Pulverized Sea Coal, Anthracite Charcoal, Soapstone, and Black Lead Facings. English and Scotch patent Fire Bricks—plain, arch, and circular, for cupolas. Fire Sand and Fire Clay. Iron and brass moulding sand; Core sand and flour; always on hand and for sale by G. O. ROBERTSON, 135 Water street (corner of Pine), N. Y. 40 6*

PATENT CAR AXLE LATHE.—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 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. The above lathes warranted to give good satisfaction. J. D. WHITE, Hartford, Ct. 39 26*

TO CARPENTERS AND DEALERS IN PATENT LIGHTS.—The whole right and title to the Patent Blind and Shutter Fastener, which was illustrated in No. 37 Vol. 7 of the Scientific American, will be sold cheap to a cash customer, or the owner of the patent will sell single States (not in smaller quantities) if desired. The invention is a good one; the claims are broad, and it is not an infringement of any existing patent, as decided by parties who have investigated the matter thoroughly. For particulars concerning the purchase of rights, etc., address "DESAIX," box 773, P. O., New York City. 41 3*

LATHES FOR BROOM HANDLES, Etc.—We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Roundings; 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.

BEARDSLEE'S PATENT PLANING MACHINE, for Planing, Tonguing and Grooving Boards and Plank.—This recently patented machine is now in successful operation at the Machine shop and Foundry of Messrs. F. & T. Townsend, Albany N. Y.; where it can be seen. It produces work superior to any mode of planing before known. The number of plank or boards fed into it is the only limit to the amount it will plane. For rights to this machine apply to the patentee at the abovenamed foundry—or at his residence No. 764 Broadway; Albany. GEO. W. BEARDSLEE. 23tf

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. 26 tf

WOOD'S IMPROVED SHINGLE MACHINE.—Patented January 8th 1850, is without doubt the most valuable improvement ever made in this branch of labor-saving machinery. It has been thoroughly tested upon all kinds of timber and so great was the favor with which this machine was held at the last Fair of the American Institute that an unbought premium was awarded to it in preference to any other on exhibition. Persons wishing for rights can address (post-paid) JAMES D. JOHNSON, Bridgeport, Ct.; or WM. WOOD, Westport, Ct.; All letters will be promptly attended to. 22tf

PORTER'S PATENT GRADUATING VALVE FORGE TUYERE.—Illustrated in this paper Sept. 6, 1851, gives a sure, quick, and clean heat, and is warranted to save full 25 cts. per day to each fire. Two sizes manufactured. Price \$6 to \$8. For sale, wholesale and retail, at No. 9 Gold st. W. J. & J. H. BURNETT. 38 4*

PAINTS, &c. &c.—American Atomic Drier, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., Painters and Chemists. 23tf

CHARLES F. MANN, FULTON IRON WORKS, Troy, N. Y.—The subscriber builds Steam Engines and Boilers of various patterns and sizes, from three horse power upward; also, his Portable Steam Engine and Boiler combined, occupying little space, economical in fuel, safe, and easily managed; Double Action Lift and Force Pumps; Fixtures and Apparatus for Steam or Water; Tools for Machine Shops; Shafting and Pulleys for Factories. Brass Castings and Machinery made to order at short notice. Steam engines furnished cheaper than can be had elsewhere, of the same quality. 30tf

JOHN W. GRIFFITHS—Ship Builder and Marine Architect, 658 Fourth st., N. Y., furnishes models and draughts of all description of vessels, with the computation of stability, capacity, displacement, and necessary amount of impulsion. Propelling power located and proportionally adapted to the form of the vessel, whether sailing or steaming. Mr. G. also superintends the construction of vessels, and may be consulted upon all subjects pertaining to the various departments of the science or practice of ship building. Draughts forwarded by letter to all parts of the world, and to any desired scale; all letters must be post-paid. 27 18*

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 \$760. For rights in the unoccupied towns and counties of New York and Northern Pennsylvania, apply to JOHN GIBSON, Planing Mills, Albany, N. Y. 26tf

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.

TO BUILDERS AND WORKERS IN WOOD.—We are selling a very simple durable, and effective Mortising Machine for \$20, boxed ready for shipment. We have sold a large number within the last year, and they have given satisfaction. We furnish three chisels and a lever to operate them. Address MUNN & CO.

MANUFACTURE OF PATENT WIRE Ropes and Cables—for inclined planes, suspension bridges, standing rigging, mines, cranes, derrick, tilters &c.; by JOHN A. ROEBLING; Civil Engineer—Trenton N. J. 47 1y*

A. B. ELY, Counsellor at Law, 46 Washington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 13tf

TRACY & FALES, RAILROAD CAR MANUFACTORY—Grove Works, Hartford, Conn. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 26tf

LOGAN VAIL & CO., No. 9 Gold street, New York, agents for George Vail & Co., Speedwell Iron Works, have constantly on hand Saw Mill and Grist Mill Irons, Press Screws, Bogardus' Horse-Powers, and will take orders of Machinery of any kind, of iron and brass; Portable Saw-mills and Steam Engines, Saw Gummers of approved and cheap kind, &c. Gearing, Shafting, large and small, cast or of wrought iron. 11 1y

NEW HAVEN MANUFACTURING COMPANY, Tool Builders, New Haven, Conn., (successors to Scranton & Parshey) have now on hand \$25,000 worth of Machinists' Tools, consisting of power planers, to plane from 5 to 12 feet, slide lathes from 6 to 18 feet long; 3 size hand lathes, with or without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; drill presses, index plates, bolt cutters, and 3 size slide rests. The Co. are also manufacturing steam engines. All of the above tools are of the best quality, and are for sale at 25 per cent. less than any other tools in the market. Cuts and list of prices can be had by addressing as above, post-paid. Warehouse No. 12 Platt st., New York; S. C. HILLS, Agent N. H. Man'g Co. 25tf