

TO CORRESPONDENTS.

"M. P. of Pa."—The Rule for finding the weight of a fly wheel is, to multiply the horse power of the engine by 2000, and divide by the square of the velocity of the circumference of the wheel.

"G. A. S. of N. Y."—The fault is not in the Patent office, no doubt full justice was done to your claims. The great trouble was the lack of novelty in your invention, and you should have taken the advice in the matter as being correct.

"J. W. C. of Ind"—Your communication has been received, and will receive early attention.

"A. J. P. of La."—It will not be possible for us to give you the advice sought for, without a better opportunity of examining into the matter. You will readily see the necessity of sending a clear drawing or model, together with a description of the invention.

"N. M. of Pa."—We know of no pump in use, superior to Mr. Kase's, for forcing water.

"T. W. L. of Mass."—The ideas you have advanced in your letter are correct, and have been illustrated in this paper, frequently during the present volume.

Your experiment can do you no harm, if a knowledge of the laws of electricity be desirable and practical information better than theoretical.

"J. B. L. of Va."—We know of no mill such as you describe and should think it might be patentable. Patents are granted for the United States, only.

"M. K. of N. Y."—We cannot give you the information you desire, and would advise you to write Mr. Prosser who will undoubtedly, impart the necessary information cheerfully.

"G. W. of Miss."—We have examined the sketch of your lathe, and should think that it was new and patentable, and would advise you to send us a model without delay.

"L. D. B. of Pa."—We do not consider your device, the subject of a patent, as it is already in use, in mill wheels, &c.

"O. C. of Ill."—Your model has been received and we can discover no patentable combination about it, in fact there is no combination whatever,—it will be necessary for you to construct a working model illustrating fully, the principles upon which you wish to found your claims.

"Wm. F. & G. A. G. of Pa."—We think that your invention is new, from what little insight we can get of its general arrangement, from your sketch of it, a model would be necessary, before we could give a decisive opinion upon its novelty.

"T. J. W. of Conn."—Borax has long been known as a solvent of shell lac and copal. You will be fully convinced of this, by reading any good work on chemistry.

"H. W. R., of New York."—We cannot lay our hands on the piece of information you want, although we have made considerable search for it; if we discover it you will see it published.

"O. H. P. W., of Ala."—We can only say this about Rich's wheel, that a gentleman who has had one in operation for two years, tells us that it is "a most excellent wheel." Mr. Rich lives in Oswego Co., N. Y. The other information we will try and get for you soon.

"G. W., of Boston."—Your model is at hand, and has been examined. We can discover no combination sufficiently new to warrant an application for Letters patent.

"R. F., of N. Y."—You are mistaken in a great measure: the author of the article you refer to, is both practical and scientific and makes engines.

"B. F. S., of Ohio."—Yours has just come to hand.

"H. W. G., of N. C."—Your communication has been received. We shall endeavor to furnish the information sought for as early as possible.

"A. T., of N. Y."—John Johnson is a swindling impostor, and deserves an uncomfortable lodge in Auburn, where he justly belongs, and should never be allowed a peep outside of its walls, unless properly secured by manacles, or deprived of what little sense he possesses. Any biped in human form that will be engaged in the contemptible business of swindling newspaper publishers, or the public, out of the paltry price of a year's subscription, deserves to be transported in chains to that newly discovered country near the Red Sea, and be compelled to gather the poison from the "Upas." Travelling agents shall meet with a cold reception from us. We have none, and what is more we don't want any.

"J. A. R., of N. Y.; J. F. M., of Pa., and C. C. of N. H."—Your papers have been forwarded to the Patent Office.

Money received on account of Patent Office business since August 15:— R. & W., of Ct., \$30; L. & B., of N. J., \$30; J. F. M., of Phila., \$20; R. A., of Mo., \$40.

Making Varnish.

A New York correspondent writes to us and says "in the receipt for making varnish No 47 Scientific American, if the bottle containing the ingredients be placed in hot water the gum will dissolve about as fast, as if placed on the fire, and then there is no danger of the spirits taking fire." This is correct.

Advertisements.

Table with columns for General Agents, Local Agents, and their respective locations and names.

To Manufacturers or Capitalists about to commence the Manufacture of Cottons.

THE subscriber, brought up with Messrs. Samuel & Jno. Slater, at operating and building cotton machinery, and for the last 20 years has travelled through several of the United States, setting up and building, on the most approved plans of modern invention, now offers his services as Superintendent and is ready to introduce a new system, greatly reducing the cost of manufacture, and at the same time making better goods than ever was in the market. Please direct, post paid, to G. W. HOWARD, 228 Eddy st., Providence, R. I.

FAIRMAN'S PATENT UNIVERSAL CHUCK FOR LATHES.

OLIVER SNOW & CO'S Hand Planing Machines, Boring Machines &c., also Lathes for Dentists, Jewellers, Wood Turners, &c. Lathe Wheels, Bands, Hooks and Eyes, Circular Saws, Saw Man drills, and every other description of Tools for Machinists, Carpenters, Coachmakers, &c., constantly on hand at WOOD'S established Tool store, corner of Chatham and Duane streets, New York. Planes made to order and warranted. Carpenters' and amateurs' Tool Chests, &c.

TO IRON FOUNDERS.

FINE ground Sea Coal, an approved article to make the sand come off the Castings easily; fine bolted Charcoal Blacking; Lehigh fine Dust, and Soapstone Dust for facing Stove Plates, &c. &c.; also, Black Lead Dust, for sale in Barrels, by GEORGE O. ROBERTSON 303 West 17th st. New York.

KASE'S PUMPS. THESE celebrated Suction and Force Pumps, are for sale at \$25 each, by S. C. HILLS, 43 Fulton st. N. Y.

Patent Agency.

From our long acquaintance and experience in Patent Office business we have no hesitancy in asserting that we are better able to judge the merits of new inventions, and are better capable of advising upon all subjects pertaining to Patents than any other concern in the United States.

Any business connected with the Patent office may be done by letter through the Scientific American office with the same facility and certainty as though the inventor applied in person. Our prices too (another important consideration to inventors) are but about half as much as the charges of most agents as the amount of business which we do, and that in connection with the publication of the Scientific American renders to us superior advantage over all other agents.

Having been often complimented by those who have entrusted their business in our care, we here repeat what very many have said. "The best Patent Agency in the United States is at the Scientific American office."

All models, drawings or communications that are sent to the Scientific American office for inspection are deposited from the eyes of the public until the necessary application for securing the invention has been made.

The best of artists are constantly employed to make drawings from models and our corps of specification writers are composed of gentlemen formerly connected with the Patent office at Washington as Examiners.

All communications should be addressed to MUNN & CO. Scientific American Office. Post Paid. New York.

MECHANICS' FAIR.

THE Salem Charitable Mechanic Association announces to the public, that their first Exhibition will be held at Mechanic Hall, in the city of Salem, commencing on Monday, September 24th, and continuing through the week.

We invite all to contribute in every department of industry which can in any way promote the comfort, convenience or improvement of mankind. We respectfully solicit the aid of Mechanics, Manufacturers, and Artists. Let them bring forward the products of the Loom and the Forge. All kinds of Machinery; every description of Tool and Implement. Articles of Wood, Stone, Metal, Glass, Leather, Wool, Cotton, Silk, Hemp and Flax, specimens of Printing, Statuary, Painting, Daguerreotypes, Engraving and Lithography. Articles of female ingenuity and taste will have a prominent place in the Exhibition.

The Annual Exhibition of the Essex Agricultural Society, and the Essex Institute, will take place in Salem during the week of our Fair. We trust that the Manufacturers of Agricultural Implements will bear this in mind, that we may have a good display of articles in this department. The Superintendent of the Fair will be entrusted with the care and management of every article sent for exhibition, and every facility will be given to show its useful purpose, its ingenious contrivance. Care will be taken to preserve them from injury; trustworthy men will be in attendance day and night; but all articles will be at the risk of the owners. Each contributor will be entitled to admission. Contributors are particularly and earnestly requested to send forward their goods in season. Articles intended for exhibition, will be received from the 1st to the 22d Sept. A check will be given for each article received, which must be presented when they are returned.

All Goods, Machinery, etc., intended for exhibition will be transported over the Railroads leading into the city, free of expense.

Medals of silver, and Diplomas, will be awarded according to the merit of the articles exhibited. No jury shall be adjudged to every contributor. Impartial men, possessing intelligence, and competent knowledge in each department of art, will be selected as judges; those only will be appointed who are not competitors for premiums.

All communications in relation to the Fair, should be addressed (post paid) to the Secretary of the Association.

ALBERT G. BROWNE, President. ELEANOR M. DALTON, Secretary.

E. NEVILLE, WOOD ENGRAVER. 122 Fulton st. corner Nassau.

The above is prepared to execute all orders at the shortest notice and on the most reasonable terms.

NOTICE.

We have constantly on hand and for sale: Mining & Mechanical Drawing Book, bound in calf, \$3.00 Cook's Condensing Engine, Plate and Book, \$3.00 Leonard's Mechanical Principia, \$1.50 Scribner's Mechanics, \$1.50 Ewbank's Hydraulics and Mechanics, \$2.50 Moritt's Chemical Manipulations, \$2.50 Ranlett's Architecture in numbers, each 50 Arnott's Gothic Architecture " 25 Camera Lucidas. \$6.00 MUNN & CO.

STEAM BOILER EXPLOSIONS

THE subscriber having been appointed sole agent for Faber's Magnetic Water Gauge, is now ready to supply the trade and individuals with this celebrated instrument. Beside the great safety from explosions, resulting from its use, it is a thorough check against careless stoking and feeding. In marine engines it will regulate the exact quantity required in the "blow-off" pamphlets containing full information can be had free on application to the Agent, JOSEPH P. PIRSSON, Civil Engineer, 5 Wall st. New York.

S. O. HILLS, No. 43 Fulton st., has constantly for sale: Steam Engine 3 to 20 horse power, at from \$200 to \$1250—good horizontal engines—deliverable here or in Philadelphia.

Steam Boilers for the same, say Bentley's patent, or common cylinder, at lowest prices. Engine Lathes 5 feet \$170; 7 feet \$180; 10 feet \$200 each, with gear for cutting screws, \$45 additional. Iron Planing Machines, to work by hand \$100.—Also Hand Lathes, Drills, &c. The above Machinery will be warranted. Letters must be post paid.

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 established, by, and connected only with this establishment. Pamphlets containing a synopsis of Foreign Patent Laws, and information can be had gratis on application. JOSEPH P. PIRSSON, Civil Engineer, Offices 5 Wall st. New York.

NOTICE.

THE Second Exhibition of the MARVLAND INSTITUTE for the Mechanic Arts, will be held at Washington Hall in the City of Baltimore, from Thursday, 27th of September, to 13th October, inclusive. Machines, models, or goods sent to the address of H. Hazelhurst, Corresponding Secretary of the Institute, (expense paid) will be met with immediate attention, and every facility used to exhibit the same to the best advantage.

MORSE'S PATENT AIR DISTRIBUTOR.

THIS improvement is a substitute for the common Grate by which Tan, Sawdust or a like material will burn as freely as dry wood. It has been introduced in most of the Northern States into Steam Saw Mills and Tanneries with the most gratifying results. We are now prepared to furnish castings at reasonable prices at New York or Philadelphia. A model may be seen at the office of J. P. Morris & Co. Steam Engine Builders, Philadelphia, who are prepared to furnish castings at short notice.

Persons wishing to purchase territorial rights will address L. MORSE & BROTHERS, Patentees, 114 ft Athol, Mass. Agents will take notice that the right for the states of New York, Pennsylvania, Maryland & Delaware have been sold. L. M. & BROS. Athol, July 3, 1849.

SUPERIOR TURNING LATHES.

JAMES STEWART, 15 Canal-st. and 106 Elm-st. is constantly manufacturing and has now on hand between 50 and 60 superior lathes of the following descriptions and at reasonable prices, namely: Dentist's Lathes, very highly finished.

common, Brass and Wood Turner's Lathes. Jeweller's and Pencil-case maker's very superior. J. STEWART is also authorized to act as agent for the sale of the celebrated Lathes manufactured by James T. Perkins of Hudson, of large size and at prices from \$250 to \$800. A specimen of this description may be seen at his factory as above.

BRITISH PATENTS.

MESSRS. ROBERTSON AND CO.

PATENT SOLICITORS.

(Of which Firm Mr. J. C. Robertson, the Editor of the Mechanics Magazine from its commencement in 1833, is principal partner.) undertake The Procuration of Patents. For England, Scotland, Ireland, and all other European Countries, and the transaction, generally all business relating to patents. Instructions to inventors can be had gratis, on applying to Mr. THOMAS PROSSER, 29 Platt Street New York; as also the necessary forms of Petition and Declaration for British Patents.

PATENT OFFICE 166 Fleet Street, London.

Z. C. Robbins,

Consulting Engineer and Counsellor for Patentees.

Office on F street, opposite Patent Office, Washington, D. C.

Johnson's Improved Shingle Machine.

THE Subscriber having received Letters Patent for an improvement in the Shingle Machine, is now ready to furnish them at short notice, and he would request all those who want a good machine for sawing shingles, to call on him and examine the improvements he has made, as one eighth more shingles can be sawed in the same given time than by any other machine now in use. Manufactured at Augusta, Me. and Albany, N. Y. J. G. JOHNSON. Augusta, Maine, Oct. 29, 1848. Messrs. Norcross & Co. No. 60 Nassau st. New York, are Agents for the sale of my Shingle Machines.

TO PAINTERS, &c.

QUARTERMAN'S Improved American Aromatic Drier, adapted to all kinds of Paints and Painters' colors. Sold wholesale and retail, at 114 John st New York. QUARTERMAN & SON.

Barlow & Payne,

Patent Agents and Consulting Engineers, 89 Chancery Lane, London.

Patent Journal Office.

Lap welded Wrought Iron Tubes

FOR TUBULAR BOILERS. From 1 1/2 to 8 inches diameter. THESE are 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. THOMAS PROSSER, Patentee, 28 Platt street, New York.

TO INVENTORS.

THE Subscriber begs leave to inform inventors and others that he manufactures working models of machinery &c. in a neat workmanlike manner. Patterns of every description made for Castings.—Scroll sawing neatly executed. Mathematical and Nautical Instrument Cases of every description. JOSEPH PIRSSON, R. 240 Water st N. Y. Between Beekman st and Peck Slip.

MARDEN'S IMPROVED BALANCE CURTAIN FIXTURES.—Patented Oct. 1848.

FOR Sale wholesale, by J. A. D. Worcester, No. 43 Main st., near the City Square, and by the subscriber, GEORGE H MARDEN, Charles own Mass.

PATENT AGENCY.

SAMUEL C. HILLS, No. 43 Fulton street, N. Y. Patent Agent and Agent for the sale of Patent Goods and Patent Rights—still continue to aid and assist inventors in procuring Patents and selling Rights. Charges moderate. Application per mail must be post paid.

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BLACKSMITHS, Shipsmiths, and Machinists.—Fence and Balustrade Work All kinds of Ice Tools constantly on hand. Ice and Express Wagons built to order. Also, Trucks and Carts, all kinds of Railroad Works, Mill Work, shafting, &c. Chamber st, near the Square, Charlestown, Mass.

FAY & GULICK,

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