

TO CORRESPONDENTS.

"E. Q. S., of Mass."—The elastic bag in the air chamber, to our knowledge, has been tried years ago. No patent, in our opinion, could be secured for your manner of working the piston. It is the same, essentially as that of the wing force pump, which was exhibited in this city three years ago by a mechanic from Ohio. The Piano Fire Engine comes nearest removing all the objections of Mr. Ewbank—the stroke is short from the breast, in an arc to the knee. We would advise you not to spend any money on the project.

"B. F., of N. H."—We have received yours and will give it due attention.

"F. E. E., of Mich."—The lathe referred to is not suitable for turning lasts. For information in regard to rights please address the inventor. No. 7 sent.

"A. J., of Greensboro."—A machine such as you want for turning spokes, lasts and gunstocks, can be purchased of A. R. Carter, of Newark, N. J. Mr. Alcott's is not suitable for that kind of turning.

"A. C. R., of Boston."—In Vol. 3 we gave free instructions, with plates, regarding the whole process of Electrotyping.

"W. D. A., of N. Y."—Next week about the Telegraph feat—a little too late for this number.

"W. B. T., of Syracuse."—Yours will appear next week.

"H. M. P., of Mass."—Your last has just come to hand.

"J. A., of Ala."—We will at a very early period collect and publish as much information as we can, upon the subject of Tanning.

"I. A. R. of Mass."—Upon the receipt of the model of your "balances," we will advise you fully in regard to their novelty.

"S. H., of La."—We can furnish you Vol. 4, bound, complete, at \$2.75—but volumes 1, 2, and 3 cannot be supplied from this office at any price. Louisiana money taken at par. \$1 received.

"G. W. D., of N. Y."—We have received yours. The screw is employed upon the principle of sculling, its form being adapted to act while revolving in the same way.

"T. A. R., of N. Y."—You had better not stand in the way of such a grouty man as the one who threatens you. If you do not use revolving cutters you can go on in spite of any body. We know of no good cheap machine hereabout for your purpose.

"A. H. N., of Mass."—We should like to know a little more about the invention you speak of. It is not clear to us. No speaking trumpet could convey sound to the distance stated by you: what is the plan? we must know that clearly, for we do not wish to speak about things we do not understand.

"S. T. S., of Mass."—There is no probability that any patent could be obtained for your system of propelling. Allen's plan failed in comparison with modern improvements,—and doubtless yours would, being, as you say, nearly the same.

"C. K. & Bro., Cincinnati."—Your request of the 14th will receive early attention. No. 44 has been sent by mail. We cannot furnish the back Vols. complete of the Sci. Am.—Vol. 4 is all we have. Glad to hear of Dr. C.'s safe return.

"J. R. W. of Ohio."—The drawing and description of your Corn Sheller has been examined. The conical plate arranged on a vertical shaft and the fanblower, are very common devices, and could not be patented. The springs for holding the corn are not new, in fact we fail to discover sufficient novelty in your invention to warrant an application for letters patent. \$4- received and credited as per request.

"A. H., of Ill."—We have received your papers and will attend to them without delay.

"T. C. M., of Ky."—The operation of your pump is very indifferently described, and we have been unable to obtain a clear understanding of its modus operandi. Pumps are very numerous and difficult to decide upon: our advice is that you send a model as soon as possible.

"H. & R., of Nantucket."—Your remittance came duly to hand, for which we are much obliged.

"B. S., of N. Y."—Your papers in relation to the bridge have been received. The Tribune, it seems, did not choose to notice your invention. The Committee at the Fair were perfectly blind in regard to bridges, as no mention was made of them. Very encouraging to the exhibitors to try again.

"C. L., Jr., of Conn."—The Vol. 3d sent you is the very last one that we have, therefore we cannot supply you with one complete. No. 1, Vol. 3, cannot be furnished, which we regret very much.

"W. J. H., of Ala."—Your letter in relation to machines for turning irregular forms, has been handed to responsible parties for attention. We had not the information wanted.

"J. N., Dayton, Va."—The requests have been attended to, and Mr. D. of the Magazine will rectify the error. We have that assurance.

"D. McC., of Wisconsin."—Ranlett's Architect is now complete in 20 numbers. Cannot be furnished for less than 50 cts. per number. Your numbers have been forwarded by mail.

"C. J. V. of Ohio."—Yours of the 13th is all right. Orders obeyed. Glad to hear from you often.

H. H. S., J. McC., J. A. H., T. W. S., A. H., J. P., and D. M.

Persons indicated by the above initials are informed that their funds were received and the Camera Lucida shipped according to their respective orders.

The specifications and drawings belonging to individuals with the following initials, have been filed at the Patent Office since our last issue:

O. L. R., of N. H.; J. P. G., J. P., and H. S., of N. Y.; A. H. of Ill.; N. S. T., of Va. R. N. P., of Ga., and W. S., of O.

Money received on account of Patent Office business, since Nov. 23, 1849:—

O. L. R., of N. H., \$25; J. P. G., of N. Y., \$30; J. P., of N. Y., \$50; B. S., of N. Y., \$10; C. R., of Mass., \$8; H. S., of N. Y., \$20, and N. S. T. of Ala., \$100.

Forwarding Back Numbers.

To save our subscribers the trouble of writing for the back numbers of the Scientific American, on Volume 5, we shall forward to all new subscribers the back numbers of this volume, so that at the end of the year they may have the volume complete. We shall pursue this course of sending the back numbers issued on this volume until No. 13, and after that time the names will be entered from the date of the reception of the orders, unless the writer expresses a wish to receive the back Nos.—in that case they will be promptly forwarded. It is desired that those subscribing, who are going to want the back numbers at all should order them at the time they send their names—and to insure their getting them, they are recommended to subscribe without delay.

Notice. We refer our subscribers to No. 5 of this Vol. for particulars in relation to back numbers. 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.

ADVERTISEMENTS.

Patent Office.

128 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.

MUNN & CO., 128 FULTON STREET, NEW YORK.

THE PHRENOLOGICAL JOURNAL.—This Journal is a monthly publication, containing thirty-six octavo pages, at One Dollar a year, in advance. To reform and perfect ourselves and our race is the most exalted of all works. To do this we must understand the human constitution. This, Phrenology, Physiology, and Vital Magnetism embrace, and hence fully expound all the laws of our being, conditions of happiness, and causes of misery.

PHRENOLOGY.—Each number will contain either the analysis and location of some phrenological faculty, illustrated by an engraving, or an article on their combinations; also the organization and character of some distinguished personage, accompanied by a likeness, together with frequent articles on Physiognomy. Published by FOWLERS & WELLS, Clinton Hall, 129 and 131 Nassau-st., N. Y. 11 2m

THE WATER CURE JOURNAL FOR 1850.—The Water-Cure Journal is published monthly, at One Dollar a year, in advance, containing thirty-two large octavo pages, illustrated with engravings exhibiting the Structure and Anatomy of the entire Human Body; with familiar explanations, easily to be understood by all classes.

The Water-Cure Journal, emphatically a Journal of Health, embracing the true principles of Life and Longevity, has now been before the public several years. And they have expressed their approval of it by giving it a monthly circulation of upwards of Fifteen Thousand Copies. This Journal is edited by the leading Hydropathic practitioners aided by numerous able contributors in various parts of our own and other countries. FOWLER & WELLS, publishers, Clinton Hall, 129 and 131 Nassau-st., New York. Sample numbers Sent Gratis. 11 2m

THE MECHANIC'S ASSISTANT.—D. APLETON & Co., 200 Broadway have just published the "The Mechanic's Assistant;" a thorough practical Treatise on Mensuration and the Sliding Rule, teaching the manner of Drawing all regular Surfaces, and the most concise Methods of finding the Areas of all Regular Surfaces, and the Contents of all Regular Solids, both by Numbers and by the Sliding Rule. Treating also of the Laws of Motion, the Descent of Falling Bodies, the Strength of Materials, the Mechanical Powers, the Elasticity and Force of Steam, Specific Gravities, Levelling, the Pendulum, &c. Adapted for the use of Carpenters, Shipwrights, Wheelwrights, Sawyers, Gaugers, Joiners, Students, and Artisans generally. By D. M. KNAPP, A. M. 12mo, \$1.

Also prepared for Publication. A DICTIONARY—OF Machines, Mechanics, Engine-Work, and Engineering—designed for Practical Working-men, and those Intended for the Engineering Profession—edited by Oliver Byrne, formerly Professor of Mathematics, College of Civil Engineers, London, Author of "The Calculus of Form." To be completed in about 30 Nos., Price 25 cts. each. 11

STEAM ENGINES, secondhand, one each 11-2 6, 8, 16, 20, and 30 horse power. New ditto 11-2 and 5 horse, on hand, and orders taken for any size. Lathes new 5, 7, 8, 10, and 12 feet, the 8 feet lathe is a beautiful article, has back and screw gear, drill chuck, centre and follow rest, overhead reversing pulleys, swings 19 inches and price only \$200. Single Machines, Johnson's superior mill saw 6 to 8000 per day. For the above or any other kind of machinery. Application must be post paid, to SAMUEL C. HILLS, 118\* Machinery Agent, 43 Fulton street.

BRUSH'S IMPROVED DOUBLE ACTING LIFT AND FORCE PUMP.—The subscriber is now manufacturing and has constantly on hand, an extensive assortment of Lift and Force Pumps, to which he would call the attention of owners of factories, breweries, ships, steamships, or for railroad stations and farmers, as one of the most powerful pumps ever yet invented. Persons in want of a good article (the price is within the reach of all) are invited to call on the subscriber at his manufactory. 10 10\* J. A. BRUSH, 83 Pike Slip, N. Y.

TWO PRACTICAL MACHINISTS.—The advertiser having perfected an original invention—a new hydraulic motive power, (which has occupied his attention for four years) and finding his means exhausted, is desirous of obtaining the assistance of an influential machinist to bring the invention into notice and use. References of the highest respectability can be given. Communications (post paid) addressed C. box 421 St. Louis, Mo., will receive prompt attention. 9 2\*

THE SUBSCRIBER, late of the firm of Haldean & Seitz, of Marietta, Pa., formerly engaged in the manufacture and sale of Bridle Bits, has bought out Mr. Seitz in the whole Patent Right and stock on hand. Therefore he now offers to machinists, and dealers generally, the opportunity of buying low, the patent right for States, Counties or Districts in any part of the United States, for the remaining term of the patent right, the date of which is September 26, 1848. Persons buying rights can also be supplied with a small stock to commence the business upon at once, as he is still finishing up the stock on hand in the different styles of japing, tining and plating. He will still supply the old customers in what stock they may want at reduced prices, until their neighborhood is supplied by new manufacturers. Any orders either for rights, samples or information will be promptly attended to by CYRUS S. HALDEAN, Bainsbridge, Lancaster Co., Pa. [See Engraving of the above Bit in No. 26, Vol. 4, "Sci. Am."] 9

NOTICE.—We have constantly on hand and for sale: Mims's Mechanical Drawing Book, bound in calf, \$3.00 Cook's Condensing Engine, Plate and Book, 3.00 Leonard's Mechanical Principles, 1.50 "Scientific American," bound, 4th vols. 2.75 Scribner's Mechanics, 1.50 Ewbank's Hydraulics and Mechanics, 2.50 Morritt's Chemical Manipulations, 2.50 Ranlett's Architecture in numbers, each 50 Ranlett's Architecture, 2 vols., bound, 12.00 Arnott's Gothic Architecture " 25 Camera Lucidas, 36.00 MUNN & CO.

PREMIUM STOVE POLISH, &c.—Quarterman's Chemical Oil Stove Polish, American Atomic Drier, Electro Chemical graining colors, and gold size. The stove polish is put up in tin boxes of 121-2 to 31 1-4 cts. Sold wholesale and retail at 114 John st., New York, by QUARTERMAN & SON, Painters and Chemists. 8 3m\*

LAP WELDED WROUGHT IRON TUBES, for Tubular Boilers, from 1 1-2 to 8 inches in 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. ml

EMPLOYMENT.—Pleasant and profitable employment may be obtained by a number of intelligent and active young men, in every County, by addressing postpaid, FOWLERS & WELLS, Publishers, 129 and 131 Nassau-st., New-York. P. S.—A small capital, with which to commence, will be necessary. Agents who engage in this enterprise will be secured from the possibility of loss. 5 3m\*

THOMAS E. DANIELS' PLANING MACHINES.—Manufactured by HOWE, CHENEY & CO., Worcester, Mass. All orders for the above machines executed at short notice and satisfactory prices. 2 4m\*

BARLOW & PAYNE, Patent Agents and Consulting Engineers, 89 Chancery Lane London ml 2 tf Patent Journal Office.

PARKER'S WATER WHEEL.—The Subscriber offers rights for Sale, by Counties or States, of the Best Water Wheel for Grist Mills, in the United States, which will grind a bushel of corn from three to eight minutes, under a head of water from five to ten feet. It being at the same time simple and durable, any person purchasing a State right will be furnished with a model, and by addressing the Subscriber at Camden, S. C., will have all satisfactory information given. 4 3m\* EMANUEL PARKER.

ENGINE LATHES.—The Subscribers are now manufacturing, and have constantly on hand, an extensive assortment of the best patterns of Engine Lathes, which they offer at the following prices:—A Lathe 8 feet long, swing 19 inches, with back and screw gearing, drill chuck, centre and follow rest, \$200; ditto, without screw gearing, \$150; ditto, without fixtures, \$125. For particulars of other sizes, address, (post-paid) SCRANTON & PARSHLEY, New Haven, Ct. Munn & Co., Scientific American Office, are Agents for the above Lathes. Universal Chucks for sale at \$15. 4 3m.\*

LAW'S NEW PLANING MACHINE.—For boards and plank, is now in operation in this city—planing, tonguing and grooving at the same time, with rapidity and beauty. It is believed to be superior to any other machine, as it will do the work of two or three rotary machines, and for all Southern, and the majority of Northern lumber, the execution is much better.

Machines, with rights for States, or Counties, can be had by applying to the subscriber, at 216 Pearl street, or at Collyer & Dugand's mill, foot of West Fourth street, where the machine is at work. 2 tf H. LAW.

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. 127 tf

BRITISH PATENTS.—Messrs. Robertson & 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, of all business relating to patents. Instructions to Inventors can be had gratis, on application to Mr. THOMAS PROSSER, 28 Platt street, New York; as also the necessary forms of Petition and Declaration for British Patents. PATENT OFFICE, 166 Fleet street, London. ml tf

DAGUERRIAN MATERIALS.—JOHN ROACH, Optician, 79 Nassau st., N. Y., is manufacturing American Cameras of imported Flint Glass, which are warranted equal to any. Also, on hand, Voightlander Cameras. Plates, Cases, Chemicals, &c. Galvanic Batteries for gilding and silvering. Electro Magnetic Machines for medical purposes. Thermometers wholesale and retail. Object Glasses of various sizes, ground to order and warranted achromatic. 2 10\*

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 PECKOVER, 240 Water street N. York, (between Beekman st. and Peck Slip) 30 5m\*

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 and Fire Clay, for sale in Barrels, by GEORGE O. ROBERT, SON, 303 West 17th street, or 4 Liberty Place, between Liberty st. and Maiden Lane, N. Y. 9 14\*

DEE'S AMERICAN CAST STEEL Works, (at the foot of 24th st., E. River, N. Y.) The above works are now in successful operation, and the proprietor would respectfully call the attention of machinists and all consumers of the article to an examination of his Steel, which he is warranted by the testimony of the principal machinists and edge tool makers of this city, in recommending as fully equal in every respect to any ever used in this country. A full assortment of the different sizes constantly on hand, which the public are respectfully invited to call and examine at the office of DANIEL ADER, 61 6ms 107 Fulton street, New York.

BLAKE'S PATENT FIRE PROOF PAINT, from Ohio, which in a few moments turns to slate or stone, protecting whatever covered from the action of the weather and from fire. Purchasers should be particular and see that every barrel is marked "Blake's Patent Fire Proof Paint," as there is any amount of worthless counterfeit stuff in the market, called fire proof paint. The genuine article for sale by the patentee, at No. 3 Broad st., N. York. 51 12\* WILLIAM BLAKE.

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. PIRSSON, Civil Engineer, Office 5 Wall street, New York. 3 tf

CAMERA LUCIDA.—Notwithstanding the demand for these useful instruments has been so great, we are yet able to supply orders for them. Every draughtsman and every person that desires to foster a taste for the beautiful art of sketching should surely have one. Just received, a new and more beautiful article than has before been offered for sale in this country. Address MUNN & CO., at this office. Price \$6, boxed and shipped where directed. 3 tf

PHILOSOPHICAL AND CHEMICAL APPARATUS for Colleges and Schools, and Engineering Instruments.—JAMES GREEN, 175 Broadway, New York, and 43 South street, Baltimore, Manufacturer and Importer of every kind of Philosophical and Chemical Apparatus, and Optical and Mathematical Instruments, Barometers, thermometers, telescopes, Drawing Instruments, pocket Compasses, &c. wholesale and retail. Experimental Apparatus and Models made to order. 1 3m\*