

TO CORRESPONDENTS.

"C. S. J., of N. Y."—Such an engine as you want with boiler and all, complete, will cost \$500, put upon ship board in this city—we do not deliver them beyond this city. The engine will be of the most approved kind, with cylinder boiler.

"J. S. D. of Geo."—We forward a copy of Cook's Condensing Engine Plate, on the 30th, to Messrs. Lightfoot & Flanders Macon, Geo.

"S. C. A., of Miss."—The plan suggested by you for fastening hoops, has been secured by patent: Mr. S. Pratt, Chelsea, Mass, is the patentee. \$2 received.

"W. S., of Conn."—We have examined your model and think favorable of the new additions. Please send us the Patent fee, \$30, and we will proceed with the business without delay.

"J. T., of Ala."—The common way of annealing is to place the castings in an oven, called the "annealing oven," and heat it up until the castings are about a faint red heat, then withdraw the fire and let the castings remain until it is all quite cool. Another way is to put the castings in an iron box—put the box in the fire and give it a faint red heat, then withdraw the fire. Cover them all with warm ashes and sand, and let them remain so until all is quite cool. Your name is entered properly on our books, and the paper is sent from this office every week. Patent laws sent.

"W. A. W., of Ala."—Much has been done in the way of lamps, but we should think from the description that your plan was new. You had better send one of the lamps, together with a full description of its distinguishing features, and \$30. The business will undergo a searching examination before an application is made—and our fees for making out the necessary papers, will be as reasonable as we can make them. We shall write you by letter as soon as the model reaches us.

"J. P., of Me.; E. T. B., of Conn, and I. N. H., of Pa."—The lathes referred to are not adapted to ornamental trimming—the knife accommodates itself to the pattern. For instance, if you wish to turn a shovel handle, the pattern must be of the form intended. The description is clear, we think, so that any one can understand the principle upon which it operates. J. P.'s letter has been forwarded to the inventor, as we are not authorized to furnish them as he proposes.

"E. B., of Conn."—We cannot inform you where to obtain the desired information at present. Pratt & Co., of this city, we understand, are about to publish a Directory of the Middle States, which will contain all the information you want, they can furnish the New England Directory, new, at \$1, having a list of all the trades.

"E. A. D., of N. Y."—Your apparatus for raising substances has been examined, although there may be an improvement over the patent referred to, still we think it embraces many of the distinguishing features found in the original. Therefore a patent would be of no value to you whatever.

"J. P., of Ky."—The model of your Twer Iron has been received and will be examined in a few days. We paid \$2.75 expense on the model and applied \$2 for one year's subscription as per request, which leaves 25cts, to your credit.

"A. B. W., of Mass."—The model and engravings of your machine were forwarded by express as you requested.

"G. R. C., of N. Y."—We shall be pleased with any effort you may choose to make in extending the circulation of this Journal. Accept our thanks for yours of the 26th. Specimen numbers sent.

"A. C. G., of Ohio."—The drawings of your non-Condensing Engine has been examined. By reference to Dr. Lardner's work on the Steam Engine, page 325, you will find an engraving and description of Trevethick & Vivian's Engine, the first that was ever brought into practical use in Great Britain. You will find it the same as yours, with a slight variation in the mechanical construction.

"S. H. M., of Pa."—We have been unable to find you a good cheap work upon practical printing. We saw a few days since a second volume devoted to printing, for which the owner, charges \$35.

"M. W. Stevens."—We should have replied to your communication of the 29th ult, by letter, had you given us any directions. The P. M. also omitted to stamp the letter properly. We can see no objection to your method of separating ores, but think it very good. There is however so little novelty in the arrangement that a patent would be doubtful under our laws. You had better submit it to test, as many of the Gold washers which would separate brass and lead filings from the dirt failed in their operations at the mines. Glass tubes would be a serious objections to their use in the mines, as they would be liable to get broken.

"J. C. E., of Mass."—Your papers and model have been examined, there can be no doubt in regard to the success of an application for letters patent, the principle is good, and you had better take steps to secure it without delay.

"H. S. P., of S. C."—We shall attend to your communication as soon as possible, have patience and we will tell the all.

"W. D. of N. Y."—Please call upon us in regard to your business, as soon as convenient.

"C. J. C., of N. Y."—A very good receipt for making Copying paper is to prepare a stiff ointment of butter or lard and lampblack. Smear it thinly and evenly over soft writing paper, by means of a piece of flannel, then wipe of the redundant portion with a piece of soft rag, and dry it in a warm place. Place it on paper and write on it with a solid pen.—By repeating the arrangement, two or three copies may be obtained at once.

"J. Y. S. of Pa."—The law does not prevent you from making and selling your machines previous to obtaining letters patent.—We cannot tell you at what time the application will be examined.

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

J. Y. S., of Pa., G. C., of Me., A. R. T., of Ill., W. S. D., of N. Y., H. C., of Va.

Money received on account of Patent Office business, since Nov. 30, 1849:—

A. L. S., of N. Y., \$50; A. H. H., of Pa., \$30; J. R., of N. Y., \$20; J. Y. S., of Pa., \$10; M. H., of N. Y., \$10; J. T., of Mo., \$63; N. R. C., of Conn., \$18; A. N. P., of Mass., \$30; J. P., of Ky., \$5.

We have several models and communications in the office awaiting examination—we shall attend to them as soon as possible; our friends must bear with a few days' delay, as we are very much driven at present: our intention is to devote one day in the week, exclusively, to examinations.

Models.

We have to request persons sending models to us to be particular in pre-paying the expense of transportation. Lately the tax upon us has been severe, and unless this request is complied with, so far as it is possible to do so, we shall take the liberty of refusing the model.

We have to acknowledge the receipt of several fine specimens of hominy, prepared by the new process of Mr. O. P. Stevens, of Ohio city, Ohio. We may have more to say in regard to it in future. Perhaps we shall give our editorial brethren an invitation to a supper of hominy and milk, soon.

Notice.

Whenever any of 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.

125 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.,
125 FULTON STREET, NEW YORK.

THE RAMBLER FOR 1850.—The Boston SATURDAY RAMBLER will commence its Fifth Yearly Volume on Saturday, Jan. 5th, 1850, on which occasion it will appear in an entire new and elegant suit of type, printed on fine paper, and in all respects equal to the handsomest journal of the day. Several other important improvements and new features will be introduced, and it is intended that the paper shall in every respect present higher claims to the patronage of the public than it has yet pretended to. The volume will open with a splendid original romance by C. W. Webber, Esq., author of "Old Hicks the Guide," "The Gold Mines of the Gila," "Shot in the Eye," &c. It is entitled "The Bravo Ranger," or "The Scalp-Hunter of Chihuahua, and will probably extend through eight or ten numbers of the paper. Mr. Webber is known throughout the country from his daring excursions into comparatively unknown portions of the continent, as well as from the fresh and entertaining account of his adventures which he has given to the world in "Old Hicks" and the "Gold Mines of the Gila."

Among other features of our paper, worthy of note, may be mentioned the department for Farmers, in which original articles appear weekly from the best agricultural writers in New England; the Financial and Business department, under the direction of an accomplished financial writer; the Markets, which we report with more than usual fullness; the Shipping List, into which we condense with great care, all marine intelligence of interest, to New England readers; the News Department, to which careful attention is devoted; besides which is given early intelligence of all new inventions, and discoveries, sketches of travel, historical, biographical and scientific articles, Sunday readings, puzzles, enigmas and problems, humorous sketches, and everything else that can benefit or interest the ordinary reader. The illustrations will be continued weekly, and an entirely new field of embellishments will be entered upon.

TERMS.—Two dollars per annum in advance. Specimen copies sent gratis, all applications post-paid. Address WILLIAM SIMONS & CO. 12 6* No. 12 School Street, Boston.

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. FOWLERS & WELLS, publishers.—Clinton Hall, 129 and 131 Nassau-st., New York. Sample numbers Sent Gratis. 11 12m

STEAM ENGINES, second hand, one each 11-2

6, 8, 16, 20, and 30 horse power. New ditto 1-2 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 covers, applies, swings 19 inches and price only \$245. Shingle Machines, Johnson's superior will saw 6 to 8000 per day. For the above or any other kind of machinery. Application must be post paid, to SAMUEL C. HILLS, Machinery Agent, 43 Fulton street, 11 5*

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*

THE SUBSCRIBER, late of the firm of

Haldeman & 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 japanning, 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. HALDEMAN, Bainbridge, Lancaster Co., Pa. [See Engraving of the above Bit in No. 26, Vol. 4, "Sci. Am."] 9

PREMIUM STOVE POLISH, &c.—Quar-

terman's Chemical Oil Stove Polish, American Atomic Drier, Electro Chemical coloring colors, and gold size. The stove polish is put up in tin boxes of 12 1-2 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. m1

THOMAS E. DANIELS' PLANING MA-

CHINES.—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 Patent Journal Office. m12 tf

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 & Dugan's mill, foot of West Fourteenth 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. 27 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. m1 tf

DAGUERRIAN MATERIALS.—JOHN

DROACH, 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. ROBERTSON, 303 West 17th street, or 4 Liberty Place, between Liberty st. and Maiden Lane, N. Y. 9 14*

A 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 ADEE, 61 6ms 107 Fulton street, New York.

EMPLOYMENT.—Pleasant and profitable em-

ployment 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*

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CAMERA LUCIDA.—Notwithstanding the de-

mand 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. 3tf

PHILOSOPHICAL AND CHEMICAL AP-

paratus 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*