



tion with the tunnel head of a blast furnace, substantially as described.

I also claim the conical or bell-shaped open work gate, F, for the purpose of more readily diffusing the heat and gases through the ore and of discharging the ore into the furnace when heated, substantially as described.

Edward Lindner, of New York City, for an Improvement in Breech-loading Fire-arms. Patented March 29, 1859:

I claim, first, The method described for operating or closing the breech and forming a tight joint at the junction of the barrel with the breech, by the employment of a screw, ferrule or sleeve fitting an outer screw thread on the barrel, and provided with a projecting annular flange for grasping and releasing the breech and for drawing the same backwards and forwards in the direction of the barrel to or from the rear end thereof upon said screw-threaded sleeve, being operated substantially as described.

Second, I claim, in combination with a movable box within the breech, constructed and operating as described, the packing thereof by means of asbestos, or its equivalent, substantially in the manner and for the purposes described.

Third, Looking the screw-threaded sleeve that operates the breech, by forming the pivoted lever which serves to turn said sleeve with an eccentric or cam, arranged to act upon a locking pin by pressing down said lever after the breech is drawn tight, as set forth.

Edward Lindner, of New York City, for an Improvement in Breech-loading Fire-arms. Patented March 29, 1859:

I claim the employment of a hollow screw, arranged to fit the rear end of the barrel, and serving to lock and open a suitable sliding breech-piece, substantially as and for the purpose or purposes set forth.

S. J. Seely, of New York City (formerly of Buffalo, N. Y.), assignor to C. W. Durant, of New York City, for an Improvement in Railroad Cars. Patented April 24, 1860:

I claim, first, The application of corrugated metal plates combined with and secured to and upon the angle irons, a b c d, for the construction of the bodies of railroad cars and other vehicles, as set forth.

Second, The application of the said corrugated metal plates and angle irons, combined with the trough irons, E, as set forth, for the purposes described.

ADDITIONAL IMPROVEMENTS.

D. F. Elmer, of Haydensville, Mass., for an Improved Watch Key and Guard Bar. Patented June 26, 1860:

I claim making that portion, f, of the slot in the sheath which provides for the longitudinal movement of the sheath upon the tube of a spiral form, substantially as and for the purpose described.

W. H. Johnson, of Richmond, Ark., for an Improvement in Plows. Patented Feb. 14, 1860:

I claim the segmental ring, D, provided with the screw threads and nuts for adjusting it in the beam, A, in combination with the share piece, E, constructed, arranged and operating substantially as and for the purposes specified.

J. B. McEnally, of Clearfield, Pa., for an Improved Paper and Letter File. Patented Feb. 28, 1860:

I claim the hollow cylinder or tube, A, provided with a bottom, a, lid, c, and land or rim, d, the latter having, in connection with the open end, b, of the cylinder, spiral edges, when said cylinder is used in connection with the link, B, and wires or rods, e, for the purpose specified.

[This invention relates to an improvement on a paper and letter file, for which Letter's Patent was granted to this inventor, bearing date Feb. 28, 1860. This invention consists in having the cylinder of the file made hollow, so as to serve as a box or case to hold the wires or rods, whereby the implement is rendered much more desirable than the one previously patented.]

G. T. Parkhurst, of Baltimore, Md., for an Improvement in Lamps. Patented Sept. 13, 1859:

I claim a spring attached to the outside of the upper half of a burner, and extending each way around it from the point where it is attached, with a catch on each end, suitably shaped to fasten the glass to the burner and the two parts of the burner to each other. I also claim the oval-shaped dome or cap made in one piece with the flooring, in combination with the partitions which divide the currents of air which flow to the wick from those which pass through the side openings between the cap or dome and the chimney.

I also claim the snuffing blade attached to the interior of the lamp and actuated by mechanism outside the same, all made substantially as described, or their mechanical equivalents, and operating in the manner set forth.

DESIGNS.

Henry Berger, of New York City, for a Design for Center Pieces.

E. A. Murdoch, of Boston, Mass., for a Design for a Lady's Hat.

Alonzo Hebbard assignor to W. Gale, Jr., and J. R. Willis, of New York City, for a Design for Spoons.

E. J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Co., for a Design for Carpets.

G. Smith and H. Brown (assignors to North, Chase and North), of Philadelphia, Pa., for a Design for Stoves.

G. Smith and H. Brown (assignors to Shepperd & Co.), of Philadelphia, Pa., for a Design for the Plates of a Cook's Stove.

H. G. Thompson, of New York City, assignor to the Hartford Carpet Co., of Hartford, Conn., for a Design for Carpeting, &c. (13 cases.)

N. S. Vedder, of Troy, N. Y., assignor to J. S. & Merritt Peckham, of Utica, N. Y., for a Design for a Stove Register.

NOTE.—In the above list of claims we recognize thirty-six patents which were secured through the Scientific American Patent Agency.—EBS.

NEW BOOKS AND PERIODICALS RECEIVED.

THE ATLANTIC MONTHLY. Published by Ticknor & Fields, Boston. An excellent number.

MOTT'S CLINQUES. Report of Professor Valentine Mott's Surgical Cliniques in the University of New York, Session 1859-60. By Samuel Francis, Member of Dr. Mott's Surgical Staff. Published by S. B. & W. Wood, 389 Broadway, New York.

NARRATIVES AND ADVENTURES OF TRAVELERS IN AFRICA. By Charles Williams, Esq. Dick & Fitzgerald, publishers, No. 18 Ann-street, New York.

BLACKWOOD'S MAGAZINE FOR SEPTEMBER. Re-printed by Leonard Scott & Co., 79 Fulton-street, New York.

We suppose most of our readers are aware that they can get this re-print of Blackwood with the four British Reviews (the best literature in the world) all for \$10 per year.

J. H. A., of N. Y.—We know of no treatise on dipping. Either of the strong acids may be used for coloring brass. Sulphuric and hydrochloric acids act slowly, but are easily managed. To give the dead or "mat" surface, nitric acid, or a mixture of nitric and sulphuric is used. Many also prefer to make a thick mixture of niter in sulphuric acid. The acids act chiefly by dissolving out the zinc from the surface of the brass. Gold is colored on the same principle.

W. G. W., of Va.—We have not seen the invention to which you refer, and therefore cannot meet your question. You will learn the cost of a piston, &c., by addressing the Novelty Works, in this city.

B., of Ill.—Friction is independent of velocity in relation to distance, not in relation to time. If a hundred pound weight is dragged over an iron rail a mile long, and it takes a hundred pound weight, falling perpendicularly 1,000 feet, to overcome the friction, then it will require this weight to fall the same distance, to overcome the mile of friction, whether the rubbing body moves over it in an hour or in a minute; though, in one case, the friction would be sixty times more per minute than in the other case.

C. D., of Mass.—If gunpowder be exploded in a chamber which can resist the pressure, the pressure will be maintained provided no heat escapes. The same answer applies to gun cotton.

O. P., of S. C.—Molds for india-rubber manufacture are made of metal, plaster of Paris, &c. The rubber is pressed in when at the consistence of very thick dough. Hard rubber is sold for about \$2 per pound.

J. E., of Mo.—We would prescribe an application of sand paper for the purpose of removing the glaze from your rubber belts.

T. M., of N. J.—The waxed cloth to which you refer should be of oil. We think you would find sheets of pure gutta-percha preferable.

W. F. H., of Tenn.—You "consider it a fixed fact that man must fly," and ask why he may not fly with the machine you describe, just as well as with any other.

[W. F. H. proposes to use a modified, explosive air engine, constructed of aluminum, &c.]

J. M. L., of Ind.—The bristles of brushes are arranged by careful and dexterous manipulation.

S. L. C., of Ind.—You ask: "Why is it that the earth does not perform one fourth of its revolution in the same time that it would fall to the sun, if deprived of its projectile force?" There is no reason.

G. H. H., of Maine.—Instead of .4 read .04, and your way is clear.

B. F. C., of Tenn.—Your philosophy teaches you correctly; we advise you to arm yourself with it and demolish your opponents. Tell them how a babe can move the earth, and they will be satisfied that a force of 100 pounds will move the "Great Eastern" under the circumstances you describe.

F. F., of S. C.—Creosote is extracted from coal tar and wood tar. For use in preserving wood, it is not necessary that the creosote be pure; coal tar is often used without any special preparation. It is very desirable that creosote shall be produced in some convenient form for sale and use.

W. F. C., of Md.—The "laminated" gold is gold in the shape of foil or ribbon.

H. S., of Md.—We gave the recipes with the endorsement of others. The ordinary way of depositing alloys is by means of the battery, from cyanide solutions.

W. W. B., of Mass.—Bars of soap shrink by reason of the evaporation of the water combined with the soap. You may, therefore, prevent the shrinkage by keeping the soap in a damp place.

MONEY RECEIVED

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Oct. 6, 1860:—

- J. D., of N. Y., \$30; J. H. B. S., of Ga., \$10; L. F. M., of N. Y., \$15; E. D., of Mass., \$25; F. H. P., of Conn., \$25; T. E. R., of Fla., \$30; S. B. S., of Ind., \$30; D. G. & Co., N. Y., \$40; H. P., of N. Y., \$20; W. J. H., of Conn., \$25; J. T. W., of N. Y., \$32; J. M. T., of Va., \$25; I. J. S., of Va., \$25; D. D., of Pa., \$25; A. M., of N. Y., \$30; P. H., of Mass., \$50; T. S., of Ohio, \$20; W. H., of Ill., \$20; J. B. C., of N. Y., \$20; J. B. S., of N. Y., \$25; E. S., of Mass., \$30; C. W., of N. Y., \$30; E. C., of N. Y., \$25; J. B. G., of N. Y., \$55; J. B., of N. Y., \$25; J. B. Van D., of N. Y., \$35; H. B., of Ill., \$35; J. McA., of Ill., \$25; W. C., of Pa., \$15; C. W. S., of Ala., \$35; E. V. A., of Maine, \$30; J. G. E. T., of La., \$100; J. W. G., of Pa., \$30; J. R. S. G., of Ky., \$15; J. G., of Ohio, \$30; H. W., of Pa., \$20; J. L., of N. Y., \$20; S. M. G., of Vt., \$25; S. W. M., of N. Y., \$30; J. S. B., of N. Y., \$30; S. C. St. J., of N. Y., \$40; D. L., of Ill., \$25; B. M., of N. Y., \$30; J. T. P., of Conn., \$30; H. P., of Ill., \$30; H. H., of Va., \$35; A. K. W., of Pa., \$30; P. L., of N. Y., \$30; W. H. L., of N. Y., \$40; J. B. S., of N. Y., \$25; V. V., of N. Y., \$38; W. H. T., of Ohio, \$25; G. & S., of Ohio, \$25; J. H. K., of Mass., \$25; W. J. L., of N. Y., \$35; J. W. C., of Ind., \$25; W. R. H., of Ga., \$35; J. G., of Miss., \$50; S. N. D., of Mich., \$30; J. W., of N. Y., \$30; W. G., of Mass., \$30; R. C. M., of S. C., \$30; E. & G., of Mass., \$30; O. S., of Mo., \$25; L. G., of Conn., \$25; J. W. of Conn., \$30; G. A. C., of N. Y., \$30; R. T. K., of Pa., \$30; G. & S., of Mass., \$25; W. P. L., of N. J., \$25; R. C. B., of N. C., \$30; S. I., of N. Y., \$35; H. S. H., of N. Y., \$35; S. T., of N. Y., \$25; A. F., of N. Y., \$20; J. B. S., of Conn., \$25; A. A., of Conn., \$30; G. W. H., of Pa., \$55; J. G., of Ga., \$30; J. N. N., of Pa., \$35; A. A., of Vt., \$30; H. N. H., of Vt., \$25; R. L. U., of N. Y., \$12; J. M., of N. Y., \$25; S. G., of La., \$35; A. R., of N. Y., \$25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 6, 1860:—

- R. C., of Texas; J. H. K., of Miss.; E. L., of N. N.; F. H. P., of Conn.; W. B. H., of Ga.; J. B., of N. Y.; C. T. S., of Cal.; R. T. K., of Pa.; W. S., of N. Y.; S. M. G., of Vt.; S. C. St. J., of N. Y.; W. H., of Ill.; H. H., of Va.; D. G. & H., of N. Y.; V. V., of N. Y.; J. McA., of Ill.; H. B., of Ill.; A. F., of N. Y.; W. C., of Pa.; C. W. S., of Ala.; J. M. T., of Va.; G. & S., of Mass.; F. S. G., of Conn.; O. S., of Mo.; W. A. D., of Ill.; P. M., of La.; J. B. Van D., of N. Y.; H. S. H., of N. Y.; J. B. S., of Conn.; W. H. T., of Ohio; S. J., of N. Y.; J. B. G., of N. Y.; E. D., of Mass.; W. J. H., of Conn.; J. W. C., of Ind.; D. L., of Ill.; H. K., of Ill.; H. H., of N. Y.; J. J. S., of Ga.; A. R. W., of Pa.; G. & S., of Ohio; E. C., of N. Y.; L. S. G., of Ky.; D. B. B., of Pa.; W. J. L., of N. Y.; P. H., of Mass. (two cases); T. S. of Ohio; D. D., of Va.; S. & G., of N. Y.; W. P. L., of N. J.; J. B. S., of N. Y.; S. W. M., of N. Y.; G. W. H., of Pa.; A. A., of Vt.; J. N. N., of Pa.; L. G., of La.; R. L. U., of N. Y.; A. R., of N. Y.

IMPORTANT TO INVENTORS.

THE GREAT AMERICAN AND FOREIGN PATENT AGENCY.—Messrs. MUNN & CO., Proprietors of the Scientific American, are happy to announce the engagement of Hon. CHARLES MASON, formerly Commissioner of Patents, as associate counsel with them in the prosecution of their extensive patent business. This connection renders their facilities still more ample than they have ever previously been for procuring Letters Patent, and attending to the various other departments of business pertaining to patents, such as Extensions, Appeals before the United States Court, Interferences, Opinions relative to Infringements, &c., &c. The long experience Messrs. MUNN & CO. have had in preparing Specifications and Drawings, extending over a period of fifteen years, has rendered them perfectly conversant with the mode of doing business at the United States Patent Office, and with the greater part of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawing and description to this office.

Consultation may be had with the firm, between nine and four o'clock, daily, at their PRINCIPAL OFFICE, No. 37 PARK ROW, NEW YORK. We have also established a BRANCH OFFICE in the CITY OF WASHINGTON, on the CORNER OF F AND SEVENTH STREETS, opposite the United States Patent Office. This office is under the general superintendence of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington, having business at the Patent Office, are cordially invited to call at their office.

They are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business they have Offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris, and 26 Rue des Epiceriers, Brussels. We think we may safely say that three-fourths of all the European Patents secured to American citizens are procured through our Agency.

Inventors will do well to bear in mind that the English law does not limit the issue of patents to inventors. Any one can take out a patent there. A pamphlet of information concerning the proper course to be pursued in obtaining patents through their Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. They also furnish a Circular of Information about Foreign Patents.

The annexed letters, from the last three Commissioners of Patents, we commend to the perusal of all persons interested in obtaining Patents:—

Messrs. MUNN & CO.—It is a pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS. I have no doubt that the public confidence thus indicated has been fully deserved as I have always observed, in all our intercourse with the Office, a marked degree of promptness, skill and fidelity to the interests of your employers. Yours, very truly,

CHAS. MASON. Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subjoined very gratifying testimonial:—

Messrs. MUNN & CO.—It affords me much pleasure to bear testimony to the able and efficient manner in which you have discharged your duties of Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained, I doubt not, justly deserved the reputation of energy, marked ability and uncompromising fidelity in performing your professional engagements. Very respectfully, Your obedient servant, J. HOLT.

Messrs. MUNN & CO.—Gentlemen: It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency, and that I have ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully, Your obedient servant, WM. D. BISHOP.

Communications and remittances should be addressed to MUNN & CO., Publishers, No. 37 Park-row, New York.

GREAT CURIOSITY.—MAGIC CIGAR CASES, with secret drawer, sent free on receipt of twelve red-postage stamps, to any part of the United States. Agents wanted, by whom large profits are made. Send for one as sample and terms to C. J. WILLIAMS, Lock Box 388, Providence, R. I. 16 2*

GREAT INTELLECTUAL TREAT!—WE PROPOSE publishing in the HOUSEHOLD JOURNAL, Professor Faraday's six lectures on "The Various Forces of Matter and their Relations to Each Other," lately delivered in London, and which have excited so much admiration in the intellectual world. The first lecture (complete) will be published in No. 4 of the HOUSEHOLD JOURNAL, to be followed by the five following lectures—one lecture appearing in each number. The whole will be illustrated by 51 engravings, executed in the best manner. The HOUSEHOLD JOURNAL is ready every Thursday morning, price three cents. To be had of all news agents, or from the publishers, direct, on receipt of stamps to the amount, by A. HARTHILL & CO., No. 20 North William-street, New York. *No. 4 of the HOUSEHOLD JOURNAL also contains a biographical sketch of Professor Faraday, in its department of "Corner for Celebrities," besides the usual quantity of the best Reading Matter and Music. 1

TO PATENTEES OF SMALL WARES.—THE subscribers, with capital and manufacturing facilities, and having influence with the wholesale trade, will treat with parties desiring of selling their rights or of effecting large sales on their articles. Please address Describing article, R. & Co., Box No. 2,814 New York Post-office.

INVENTORS' MODELS MADE BY P. L. SLAY.—TER. corner of White and Center-streets (Harlem Railroad Depot Buildings), New York. 1*

\$1.00 COPYING PRESS—WITH BOOK FOR copying business-letters instantly and perfectly, is sent, post-paid, for \$1.27. For satisfactory testimonials, references, &c., address, with stamp, the manufacturer, P. S.—Agents wanted. J. H. ATWATER, Providence, R. I. 2*

THE GRAEFENBERG THEORY AND PRACTICE OF MEDICINE.—On the 1st day of May, 1860, the Graefenberg Company's Sales-rooms, Consulting Offices and Medical Institute were removed from No. 34 Park-row to—

No. 2 Bond-street, New York. (first door from Broadway,) in order to afford greater facilities and a more central location, demanded by the rapid increase of confidence in the Graefenberg Theory and Practice. The Graefenberg Theory and Practice, and the use of their medicines, together with complete symptoms of all diseases incident to this country and climate, the best method for their prevention and cure, will be found in the "Graefenberg Manual of Health."

JOSHUA F. BRIDGE, M. D., Resident and Consulting Physician Graefenberg Co., No. 2 Bond-street, New York.

PORTER'S IMPROVED GOVERNOR.—The reputation of these governors is well established. Parties troubled with unstable power may send for them in entire confidence. They never fail. The numerous valves in use are all equally good, if well made; the form of the openings immaterial. The governors are warranted to work perfectly with any and all valves, which move freely and close tolerably tight.

CHARLES T. PORTER, No. 23 West Thirteenth-street, corner of Ninth-avenue, New York City.

THE BEST, AT HALF PRICE.—MOORE'S RURAL NEW-YORKER, the leading and largest circulated Agricultural, Horticultural, Literary and Family Newspaper of America (now in its XIIIth volume), commences a new quarter with October; hence, now is the time to subscribe.

PLANNING MILL MACHINERY FOR SALE.—JOHN GIBSON, of Albany, N. Y., having sold the real estate occupied by his Planning and Sawmills at the above place, now offers for sale all the Machinery thereof (at low prices, and in lots to suit purchasers); viz: 1 50-horse horizontal Steam Engine; 2 Steam Boilers, 24 feet long by 4 feet diameter—2 18-inch flues each; also, 3 Steam Boilers, 22 feet long by 3 feet diameter—2 flues each; 6 superior Woodworth Planing Machines, of various sizes; 2 upright resplitting Sawmills, 1 large self-feeding circular Sawmill, for resplitting—cuts about 16 inches; 1 Crosby clappboard Saw; also, circular saw Benches, Line Shafting, 2 to 5-inch Pulleys, 2 to 4 foot diameter; 1 screw-cutting Engine Lathes, 14 feet long—swings 25 inches; 3 double Lumber Trucks, together with all the Belting, Tools and Implements. Address JOHN GIBSON, Box No. 531 P. O., Albany, N. Y.

MODEL MAKING.—A RARE OPPORTUNITY for mechanics will be found on application to the undersigned, who has a complete establishment for the making of all kinds of MODELS for the Patent Office and United States Courts. His machinery and tools are of the very best construction, and in perfect order; many of them being nearly new. He has many of the leading patentees and agencies as his constant patrons, and his orders have constantly increased, rendering the business and stand highly desirable. He is obliged to leave Washington, by reason of failing health, and invites the early attention of purchasers. EDWARD N. SMITH, No. 451 Seventh-street, (Directly opposite eastern portico of the U. S. Patent Office), Washington, D. C.

TO CANDLE AND SOAP MANUFACTURERS.—Processes, with drawings, to manufacture Candles of every description—Common, Paraffine, Adamantine, French, Stearic; processes to bleach Oil, and make Candles of it; recipe for every kind of Soaps—Hard, Soft, Tallow, Palm, Fancy; essays of Soaps and Greases. Address Professor H. DUSSAUCE, New Lebanon, N. Y.

A COMPLETE SET OF PATENT OFFICE REPORTS FROM 1790. Also, Vols. IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, and XV. SCIENTIFIC AMERICAN, for sale cheap, or exchanged for an invention in the stationary line. Address WILLIAM BURNET, No. 454 Pine-street, New York.

OFFICE OF THE McNARY KNITTING MACHINE COMPANY, Sept. 29, 1860.—The Office of this company has been removed to No. 25 William-street, room No. 27, rear building.

SOMETHING NEW.—A COUNTER SAFE, combining a metallic Money-drawer and Burglars' Alarm Lock, with 27 changes; handsomely finished. Sent to order for \$3; full particulars with each Sale. Agents wanted. Send stamp for particulars. A. W. DECROW, Patentee, Bangor, Maine.

STEVENSON'S JONVAL TURBINE WATER WHEELS, which gave a useful effect of 90.77 per cent. of the power employed at the late trial of water wheels at the Fairmount Works, Philadelphia, March 9, 1860, are manufactured solely by J. E. STEVENSON, Novelty Iron-works, New York.

J. A. FAY & CO., WORCESTER, MASS., MAKE the iron frame Bay State planer and matcher; it has a wrought iron head, steel bearings, Pitt's patent knife-adjuster and feed works. Will surface 24 inches wide. Send for circulars.

SOLUBLE GLASS.—FOR BUILDERS, PAINTERS, calico printers and soap manufacturers. For rendering wood, cotton, &c., fire-proof; preventing soap from shrinking; also a detergent to guard against dry rot and mildew. Mixed with dolomite, it surpasses all other roofing cements. All kinds of wood coated with a solution of soluble glass will be fireproof. Cotton picking rooms, cotton bagging and outhouses can, by a solution of soluble glass, be saved from fire. Manufactured in a dry and liquid form by LEWIS FEUCHTWANGER & SON, No. 42 Cedar-street, New York. Constantly on hand Persian insect powder, oxide of manganese, tin crystals, chloride of zinc. All rare metals and chemicals for pyrotechnists and calico printers; essential oils and essences.

SAVE YOUR STEAM.—HOARD & WIGGIN'S Improved Steam Trap Valve, for relieving steam pipes, cylinders, &c., of condensed water. By its use the boiler pressure is kept up, the fuel heat maintained, and a large saving in fuel made. Several thousand of these trap valves are in successful use, and we offer them with entire confidence that they will accomplish all that we claim for them. For an illustrated circular of the machines, address: J. W. HOARD, G. B. WIGGIN, Providence, R. I.

LABORATORY OF CHEMISTRY.—CONSULTATIONS and advice on chemistry applied to arts and manufactures, agriculture, metallurgy, mining, surveying. Information on chemical fabrications, with drawings, such as colors, varnishes, coal oils, paper, gas, candles, ropes, dyeing, animal black, munitions, acids, alkalies, salts, india-rubber, gutta-percha, &c. Address Professor H. DUSSAUCE, chemist (from the Conservatoire Imperial of Arts and Manufactures, Paris), New Lebanon, N. Y.

CHARLES G. WILCOX, MECHANICAL ENGINEER, No. 135 North Third-street, Philadelphia, supplies plans of buildings with arrangement of power and machinery. Engines and machinery furnished and erected. Estimates given.

JONVAL TURBINES.—THE SAME IN EVERY respect as the one illustrated on page 164 of the present volume of the SCIENTIFIC AMERICAN, and described by J. E. Stevenson, are made by the undersigned at their manufactory in Paterson, N. J. We have made and put in over 40 of these wheels, and they have given general satisfaction. We can furnish the best of references. Address W. G. & J. WATSON, Paterson, N. J.

MACHINISTS' TOOLS FOR SALE.—TWO double-gear screw-cutting slide lathes, swinging from 20 to 24 inches and shears 12 to 16 feet long; one double-gear slide lathe, 4 feet diameter and 20 feet in length; four planing machines, various sizes; three card wheel boring machines, three card axle lathes, three shop cranes, &c., &c. All second hand; in good order. Apply to CHAS. W. COPELAND, No. 122 Broadway, New York.

CLARK'S PATENT VISE AND NICHOLSON'S metallic spirit level manufactured and for sale by W. T. NICHOLSON, No. 11 Dorrance-street, Providence, R. I. Send for circulars.

CHESTER GUILD & SONS, MANUFACTURERS of BELTING LEATHER, 16 Blackstone-street, Boston, Mass.

NOTICE.—WHEREAS APPLICATION HAS been made to the committee (who have advertised extensively, offering premiums for lamps designed for the burning of whale oil) asking further time for the completion of lamps for examination; therefore the committee have extended the time from August 30, 1860, to and including October 1, 1860. JCS. GRINNELL, Chairman.

BACK NUMBERS AND BOUND VOLUMES OF THE NEW SERIES OF THE SCIENTIFIC AMERICAN can always be had of A. WING, No. 320 Chestnut-street, Philadelphia, Pa.

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