



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.—Eds.

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., \$30; 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; L. S. G., of Ky., \$15; J. G., of Ohio, \$30; H. W., of Pa., \$20; J. R., of N. Y., \$20; S. M. G., of Va., \$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., \$25; 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 Va., \$30; H. N. H., of Va., \$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 Va.; 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 Va.; 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.

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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.

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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.

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