

Robert Marcher, of New York City, for an Improvement in Machines for Enameling Moldings. Patented July 26, 1859:

I claim the combination of the mechanism, or the equivalent thereof, for propelling the molding with the plate, the edge of which is formed the reverse of the molding, to strike off the surplus enameling and to rub it down, and with the bed or gage which sustains the molding in its proper relations to the said plate, substantially as and for the purpose specified.

I also claim, in combination with the combination above claimed, the employment of the side plates at the sides of the molding, substantially as and for the purpose specified.

And I also claim, in combination with the parts enumerated as claimed in combination in the second of the above claims, the employment of the other of the plates specified as having its lower edge of the reverse form of the molding, substantially as and for the purpose specified.

And finally, I claim making each of the said end plates and each of the said side plates, or all of them, self-adapting by yielding pressure, substantially as described, when combined with the mechanism, or its equivalent, for feeding the molding, and with the bed or gage, substantially as and for the purpose specified.

George K. Snow, of Watertown, Mass., for an Improvement in Machines for Folding Paper. Patented Oct. 16, 1850:

I claim, first, A slotted plate, B, table or contrivance, for receiving and supporting the sheet; second, two parallel planes or plates, L M, extending at right angles from such support, and so arranged that there shall be one of the said plates on each side of the slot, P, of the first element or support of the sheet; third, a striking and folding frame or plate, D, so arranged and operated as to press the paper against the middle or other proper part of it, force it downward through the slot and between the two parallel plates; the said parallel plates operating to complete the fold and hold the sheet of paper during the return or retrograde movement of the striking frame or plate.

And in combination with the above, I also claim a second striking and folding plate, N, arranged at right angles to the said two parallel plates, and made so to pass or operate through them or their slots, and directly after the said retrograde movement of the first one, as to press against the sheet of paper and force it through one of the said slots, and thereby once more, or a second time, fold it.

I also claim, in combination with such second combination of mechanism, a third striking and folding plate, R, and slotted parallel folding plate, S, and friction rollers, P, Q, or equivalent contrivances; the same being for supporting the twice-folded sheet of paper, folding it a third time, and subsequently discharging it; such discharge taking place in consequence of the return or retrograde movement of the striking or doubling plate, as described.

I also claim the combination of one or more registerpoints or registering apparatus with the sheet-receiving table or platform, and an apparatus for producing one or more folds in the sheet.

I also claim a combination composed not only of machinery for folding sheets of paper, but machinery for receiving and piling or packing such sheets in a regular pile or pack.

I also claim the combination of mechanism which it applied to the striking plate and its rollers or folding contrivances, and need for packing the sheets; the said mechanism consisting of the stationary plate, T, and the spring plate, U, or plate and its spring, or other proper equivalents, which permit the recession of the plate in proportion as the pack of sheets increases in size; the whole being arranged and made to operate substantially in the manner as specified.

I also claim the combination of one or more edge gages, C C1 C2, with the sheet-receiving platform and an apparatus for folding paper, substantially as described.

Wm. Wharton, Jr., of Philadelphia, Pa., for an Improvement in Dispensing with Switches on Railroads. Patented Dec. 13, 1859:

I claim the employment, in connection with the sidings or turn-outs on railways, of supplementary inclined and elevated rails, in combination with car wheels, so constructed as regards the said inclined rails, which are so arranged as regards the rails of the siding or turnout, that the wheels may be elevated above, and free from, the control of the rails of one track and be placed under the control of those of another track, as set forth.

ADDITIONAL IMPROVEMENTS.

Robert Cartwright, of Ithaca, N. Y., for an Improvement in Canal Boat Propellers. Patented July 19, 1859:

I claim the arrangement of the shaft, F, to the bed plate, R, being made detachable by means of the strap, J, so that the apparatus, as described in the patent to which this is an additional improvement, with the exception of the bed plate, may be taken out or put in its place without docking the boat.

James Emerson, of Boston, Mass., for an Improvement in Ship's Windlasses. Patented Aug. 28, 1855:

I claim, first, The ratchets, N and O, when made substantially as described and shown by the drawings for the purpose of controlling the gears, L and M, of my windlass.

Second, I claim combining the lever and screw for working the friction bands on my windlass, for the purpose and in the manner described.

H. P. Gatchell (assignor to E. J. Bates), of Ravenna, Ohio, for an Improvement in Coffee Pots. Patented Nov. 22, 1859:

I claim the special arrangement of the inclined planes or sections of screws, H and K, the bail, L, and the filtering cup for the purpose specified.

EXTENSIONS.

Alva B. Taylor, of New York City, for an Improvement in Checking the Momentum of Printing Presses. Patent April 4, 1846:

I claim the method described of arresting the momentum of the carriage which carries the form of type in printing presses, by means of plungers that compress air in cylinders only towards the end of the motions of the carriage, as described.

Joshua H. Butterworth, of Dover, N. J., for an Improvement in Door Locks. Patented April 11, 1846:

I claim the arrangement of the circular plate for elevating the tumblers into notches in the main bolt and raising and lowering the levers, Z Z, which act upon the movable talon, in combination with the movable talon and the preventive stop or flying tumbler, also set forth.

Thomas J. Wells, of New York City, for an Improvement in Sawmills. Patented April 11, 1846:

I claim the combination of the sliders with eccentric clamps, slightly pressed together, and so formed upon their faces that, however the thickness of the stuff may vary, the line, drawn as a radius from the face of the clamp at the point of contact with the stuff, shall always make nearly the same angle with the face of the material and the direction of the feed.

DESIGNS.

Samuel Armitage, of St. Louis, Mo., for a Design for a Trade-mark for Neuralgic Pills.

Samuel Boyd, of New York City, for a Design for Andirons. (2 cases.)

James C. Karr, of Williamson county, Tenn., for a Design for Coffins.

George W. Smith, of Hartford, Conn., for a Design for Ice Pitchers.

Theodore W. Lillagore (assignor to Savery & Co.), of Philadelphia, Pa., for a Design for Fire-dogs. (6 cases.)

David McNair, of Roxbury, Mass., assignor to the Roxbury Carpet Company, of Boston, Mass., for a Design for Carpets.

Charles Muller (assignor to John Mathews), of New York City, for a Design for Water-coolers.

Francis J. Pierce, of Lowell, Mass., assignor to the Roxbury Carpet Company, of Boston, Mass., for a Design for Carpets.

Joseph Rosenthal (assignor to Joseph Reckendorfer), of New York City, for a Design for Trade-marks for Lead Pencils.

Joseph Rosenthal (assignor to Joseph Reckendorfer), of New York City, for a Design for Stamping on Lead Pencils.

Notes & Queries.

P. M., of N. Y.—A high pressure steam engine is one which works with steam without condensing. The pressure carried in such engines varies from 20 to 100 lbs; the most common pressure is about 40 lbs.

A. N., of N. H.—Ivory and ebony, for the keys of pianofortes, are polished with fine emery paper, and then rubbed up with whiting in the same manner that any hard unvarnished wood is polished.

T. S. B., of La.—The back volumes of the SCIENTIFIC AMERICAN are the source to which we can direct attention for illustrations and descriptions of sawing and shingle machines, and all other kinds of machines for working in wood.

A. E. D., of La.—The best work on electro-magnetism applied to telegraphing, &c., published in our language, is Shaffner's. The publishers in this city are Pudney & Russell, No. 79 John-street.

L. R., of Pa.—Partridge & Bros., Cliff-street, this city, are wholesale dealers in chemicals.

H. G. S., of N. Y.—Come to this city and you will see one of the English cast-steel bells. When cast steel is melted and poured into a mold, it does not become pig iron—it is still cast steel. A broken steel bell may be sold for scrap steel; it is more valuable than pig iron certainly.

T. R. C., of N. Y.—It would take the space of a whole column to answer all your inquiries. We advise you to get Bourne's "Treatise on Propellers" and give it a thorough perusal. The subject of propellers is, as you say, one of great commercial interest, but it is not new. We have a great number of engineers and others who are perfectly familiar with it.

D. D., of N. Y.—A "unit of heat" means the mechanical energy required to raise the temperature of water one degree from 39° Fah. It means 772 pounds lifted one foot, and is called Joule's Equivalent, who found it by experiments on friction.

C. S., of Ga.—You will certainly raise more steam with a boiler 4 feet in diameter, 12 feet long and having 47 return 2-inch flues, than with your old 22-inch flue boiler. You may use your old engine and pump. We would advise you to ~~use the steam~~ slightly in carrying it from the boiler to the cylinder. It will save both fuel and feed water.

J. E. T., of N. Y.—The upper portion of a wagon wheel does move faster horizontally than the bottom.

L. W. A., of Texas.—In lithographing in colors, each color is printed from a separate stone; each stone being made of the full size of the print, and the color placed on it in the proper places.

H. C. P., of N. Y.—As your article on dialing would require an engraving to illustrate, we shall be obliged to pass it, at all events, for the present, as our artists are very much hurried just now.

I. S. B., of Pa.—A very thin coat of copal varnish applied to a clean iron pattern, and dried thoroughly in an oven, will endure for a long time, and prevent the pattern from rusting when used in a damp mold.

S. H. W., of N. Y.—Your alleged improvement in fire-escapes is not new. The same thing was patented in 1849.

J. A. A., of N. J.—If you boil cotton or linen cloth for half an hour in a weak solution of sumac and alum, or sumac and the sulphate of copper, then dry it thoroughly, it will endure four times longer when exposed to the weather than if it was unprepared.

E. B., of Md.—We are not aware of any experiments having been made to manufacture cast steel type. The nature of the metal, owing to its shrinking in the mold, would prevent it from having a fine-shaped edge.

J. W. M., of Mass.—The experiments with water wheels at Philadelphia are not quite complete; we shall present the report of them as soon as possible. Your water wheel is original, and if you can prove that it has advantages, a patent can be secured; but we do not think it is quite so good as some others which are more simple. Some of the wheels at Philadelphia gave considerably more than 80 per cent of power.

B. F. B., of Pa.—It would be practicable to fill the space between the plastering and siding of houses with sawdust or tan bark. In order to get the full benefit from it, great care should be taken to keep it dry, even from moisture soaking up from the bottom.

A. G., of Mass.—The motion of the planet Jupiter is westward in relation to the sun, but not in relation to the fixed stars; it is, however, as well as Saturn, nearly stationary, and this, of course, brings it at a given hour about one degree further west every night. The motions of the exterior planets are the same, not in a year, but in periods of time which are longer than a year.

C. M., of Mass.—Would it not be better to fill a vault with some di infecting substance, such as charcoal dust, rather than attempt the difficult, if not impossible, task of making it airtight? The charcoal, when fully impregnated, would be very valuable for manure.

W. P. De S., of —.—Your article on the "Helicoidal Surface and its Development" is too purely mathematical for our columns. You had better send it to the "Mathematical Monthly," published by Ivison & Phinney, of this city.

J. W. P., of C. E.—We do not know where you can procure a tobacco-cutting machine; but presume an advertisement for it in our paper would attract the attention of some one who could furnish you.

C. H. W., of Mass.—Byrne's "Metal-workers' Assistant" will give you all the information regarding alloys of metals. It is published by H. C. Baird, Philadelphia.

O. S., of Conn.—New belts should be stretched before they are put on the pulleys; and when they become slack by running, they should be taken up, or else a friction pulley put on to make them "taut."

C. B. B., of Wis.—With the utmost care, it is scarcely possible to apply any varnish to a pencil drawing without soiling it. A weak solution of isinglass, however, is the best that is known to us. We have never seen gold leaf gilding successfully imitated by any varnish.

J. A. G., of Ohio.—There is no American work published on gas-lighting. Parnell's book on this subject was published several years since in London, and is a very good treatise. The subscription price of the "London Journal of Gas-lighting" is 18s. sterling per annum. It is published at No. 11 Bolt-court, Fleet-street, London.

J. C., of Ohio.—The triple or three-faced iron rail is an old invention. It was patented in England in 1846, and has frequently been shown to us since.

W. B. O., of Cal.—We do not believe a good egg-hatching machine can be obtained. We do not know of a single one in use.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, April 7, 1860:—

J. D., of N. Y., \$30; J. A., of Pa., \$25; J. B., of N. Y., \$30; J. R. B., of Ky., \$35; F. T., of Ill., \$30; S. M., of Va., \$25; D. S., of N. Y., \$30; A. & B., of N. Y., \$100; D. A., of Ohio, \$25; R. L. U., of N. Y., \$10; B. H., of Conn., \$30; J. J., of Ill., \$25; E. B. C., of Fla., \$25; W. B., of Ohio, \$30; J. S., of N. Y., \$30; M. B. T., of Mass., \$30; H. M. W., of Conn., \$30; J. S., of N. Y., \$28; C. T. P., of N. Y., \$58; S. W. B., of N. Y., \$60; I. W. K., of Cal., \$30; W. J. McC., of N. Y., \$10; P. B., of N. Y., \$30; H. A. M., of Ill., \$35; N. & C., of Ga., \$25; E. & D., of Mass., \$25; J. W. H., of Ill., \$30; W. J. A., of Tenn., \$25; S. F. B., of Mass., \$50; N. A. P., of Tenn., \$30; S. A. G., of N. Y., \$30; J. A. McL., of Ky., \$10; L. H. F., of Pa., \$30; A. W., of Conn., \$30; A. K. T., of Mich., \$25; H. & M., of Ohio, \$25; L. H., of Conn., \$30; H. W. A., of N. Y., \$60; A. T. J., of Conn., \$28; L. S. C., of N. Y., \$68; D. H., of Mass., \$30; C. E. S., of Wis., \$15; J. & S., of R. I., \$25; S. K., of Cal., \$30; W. R. S., of Wis., \$55; R. W., of Ill., \$25; I. C., of Iowa, \$25; L. O. C., of N. Y., \$55; J. P. W., of Ky., \$25; J. M. C., of S. C., \$20; S. S., of Mass., \$25; W. H. C., of Ill., \$30; N. H. G., of Conn., \$25; W. A. H., of R. I., \$30; N. P., of N. J., \$30; A. C. K., of N. Y., \$30; C. B. M., of Ill., \$30; C. G. & H. M. P., of Mass., \$10; G. S., of Mass., \$35; G. & W., of Tenn., \$55; J. J., of N. Y., \$25; T. M., of N. Y., \$15; O. L. B., of Ga., \$25; W. & K., of Iowa, \$30; E. L. G., of Conn., \$30; D. S. B., of N. Y., \$25; A. W., of N. Y., \$25; H. & W., of Ohio, \$45; C. & B., of Ill., \$64; J. A. S., of Wis., \$10; J. J. McD., of Ill., \$30; S. B. Jr., of N. Y., \$25; J. H. H., of Vt., \$32; J. G. Sr., of R. I., \$25; A. H. H., of Ga., \$10; R. C. B., of N. Y., \$40; M. B., of Pa., \$30; R. P. A., of N. Y., \$28; M. C., of N. Y., \$30; C. M., of N. Y., \$30.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, April 7, 1860:—

D. H., of Mass.; J. J., of N. Y.; S. M., of Va.; N. & C., of Ga.; F. T., of Ill.; J. P. W., of Ky.; J. E. E., of Pa.; S. S., of Mass.; A. K. T., of Mich.; W. B., of Ohio; F. F. S., of Ill.; P. & C., of N. Y.; C. E. S., of Wis.; C. A. B., of Vt.; E. & D., of Mass.; H. A. M., of Ill.; W. D. Jr., of Pa.; W. J. A., of Tenn.; S. F. B., of Mass. (2 cases); E. B. C., of Fla.; H. E. & B., of N. J.; H. & M., of Ohio; J. H., of Mass.; J. A., of Pa.; J. W. K., of Cal.; J. & S., of R. I.; I. C., of Iowa; R. W., of Ill.; C. G. S., of N. C.; D. A., of Ohio; J. S., of N. Y.; A. W., of Conn.; J. J., of Ill.; J. A. McC., of Ky.; H. W. A., of N. Y.; L. S. C., of N. Y.; L. O. C., of N. Y.; J. G. Sr., of R. I.; J. W. C. Jr., of Ill.; S. B. Jr., of N. Y.; C. F. B., of R. I. (2 cases); H. & J., of Ohio; S. & O., of Wis.; O. L. R., of Ga.; C. E. G., of Minn.; R. P. A., of N. Y.; M. C., of N. Y.; A. W., of N. Y.; C. M., of N. Y.; S. W. B., of N. Y. (2 cases); A. C., of N. Y.

Literary Notices.

CASSELL'S ILLUSTRATED FAMILY BIBLE.—We announced, a few weeks ago, the commencement of the publication of this famous work in the United States. Four parts only have been issued, but the demand has risen—so we are told—to 80,000 copies per number; in London the edition is said to be 300,000 copies. The parts already issued here sustain most fully the highly valuable character which the work presented to us on viewing the first number. The illustrations are profuse, and many of them are taken from paintings by the most celebrated masters, drawn and engraved in a superior style of art. Objection is sometimes made to subscriptions to serials, because, in not a few instances, the publishers have failed to complete the work, or carry it on in the style of the beginning. But no person who is at all acquainted with the immense resources of Mr. John Cassell's great publishing house in London, or with his world-wide reputation for vigorously carrying forward whatever enterprises his hands find to do, will be deterred, by reasons like those stated, from obtaining early possession of the numbers of this wonderfully cheap, but truly magnificent edition of the Bible.

THE GOLD FIELDS OF ST. DOMINGO. By W. S. Courtney, Esq. Anson P. Norton, publisher, No. 114 Nassau-street, this city.—This little book is very likely destined to change the fate of numbers of people, by luring them to the promising gold mines of the negro republic. It is very interesting, and is made intelligible by a map.

TREATISE ON PHOTOGRAPHY. By Charles Waldack, Cincinnati.—A cheap and complete elementary treatise, by a practical chemist and photographer.

HYGIENIC AND LITERARY MAGAZINE. M. A. Malmby, editor and proprietor, Atlanta, Ga.—This new monthly is devoted to literature and that other subject on which all human happiness and well-being depends—obedience to the laws of health.

WEISSENBORN'S AMERICAN ENGINEERING, published in Fulton-street, this city, is the best and most recent work on the steam engine suitable for Americans.

Rates of Advertising. THIRTY CENTS per line for each and every insertion, payable in advance.

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. JUDGE MASON, formerly Commissioner of Patents, as associate counsel with them in the prosecution of their extensive patent business.

Consultation may be had with the firm, between nine and four o'clock, daily, at their PRINCIPAL OFFICE, No. 37 PARK ROW, NEW YORK.

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; 89 Boulevard St. Martin, Paris; and 26 Rue des Eperonniers, Brussels.

Inventors will do well to bear in mind that the Patent 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.—I take pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-HUNDRED 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 your intercourse with the Office, a marked degree of promptness, skill, and fidelity to the interests of your employers.

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

Messrs. Munn & Co.—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and, 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.

MORIN'S MECHANICS.—D. APPLETON & CO., Nos. 348 and 348 Broadway, New York, have just published Fundamental Ideas of Mechanics and Experimental Data. By A. Morin. Revised, translated and reduced to English units of measure. By Joseph Bennett, C.E. 1 vol., 8vo., \$3. Sent by mail on receipt of price.

Every book by Professor Morin would be worth its weight in gold if it could not be obtained more cheaply. This volume I have long known as stating the fundamental ideas and experimental data of mechanics with remarkable clearness, precision and attractiveness. The translator has done excellent service to it in his translation, and much increased its usefulness by his laborious reductions.

STEAM AND WATER GAGES.—AN EXTENSIVE assortment constantly on hand from the best makers. Price from \$10 to \$30. Purchasers can see them tested for their own satisfaction. E. BROWN, No. 311 Walnut-street, Philadelphia, Pa. 1*

GOVERNMENT BOOKS.—ALMOST ANY GOVERNMENT book wanted can be had. A very complete set of Patent Office Reports; a large list of the most valuable patents for sale; the authorized catalogue of patents, &c. Address ALFRED HUNTER, Washington, D. C. 1*

WHEELER & WILSON'S SEWING MACHINE. Who writes for it? Send for a circular and see. Office, No. 605 Broadway, New York. 16 4

TO RAILROAD ENGINEERS.—HENRY C. BARD, Philadelphia, publishes "Griswold's Railroad Engineer's Pocket Companion for the Field," pocket-book form. Price \$1. Sent by mail free of postage. 1

CONSTRUCTIVE ARCHITECTURE.—SEE THE ARCHITECT'S AND MECHANIC'S JOURNAL of April 7th, for the first of a series of articles on this subject, illustrated with diagrams. Commencement of a new volume, and enlarged size. Published weekly. \$3 a year. To be had of all news agents. Publisher, A. HARTHILL, No. 128 Fulton-street, New York. 16 2

GREENHOUSES, HOTHOUSES AND CONSERVATORIES.—Their arrangement and construction, with plans, elevations, sections and detailed drawings, will appear in the ARCHITECT'S AND MECHANIC'S JOURNAL of April 28th, being the first of the series of articles and illustrations connected therewith. Early orders are necessary to secure these articles. Published weekly—\$3 a year—by A. HARTHILL, No. 128 Fulton-street, New York. 16 2

SCIENTIFIC AMERICAN.—VOLUMES IX, X, & XI, complete, bound and in good order; very scarce. Price \$6 per volume. Address J. W. J., at this office.

PORTER'S CENTRIFUGAL GOVERNOR.—THE attention of parties troubled with irregular or unsteady power is respectfully called to this Governor, now coming into general use. It may be used in connection with any valve or cut-off, and will regulate the motion of the engine so perfectly that its entire load may be thrown on or off at once, without sensibly affecting its speed. I will send a Governor to any responsible person for trial; and if its action is not perfect under the above test, it may be returned. Prices exceedingly moderate. All orders and communications will receive prompt attention. Send for a circular. Address CHAS. T. PORTER, 235 West Thirtieth-street, corner of Ninth-avenue, New York. A few reliable agents wanted. 15 tf.

THE LONDON BUILDER.—AN ILLUSTRATED monthly journal for the Architect, Engineer, Inventor, Constructor and Artist; conducted by George Godwin, president of the London Royal Institute of Architects, &c. Present volume commences January, and the January and February numbers contain 19 excellent illustrations of building novelties. \$7 a year; single copies, 60 cents. WILLMEK & ROGERS, 15 4 No. 42 Nassau-street, New York, Agents for America.

MACHINE BELTING, STEAM PACKING, ENGINE HOSE.—The superiority of these articles, manufactured of vulcanized rubber, is established. Every belt will be warranted superior to leather, at one-third less price. The Steam Packing is made in every variety, and warranted to stand 800 degs. of heat. The Hose never needs oiling, and is warranted to stand any required pressure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be obtained by mail or otherwise at our warehouse. NEW YORK BELTING AND PACKING COMPANY. JOHN H. CHEEVER, Treasurer, 14 18 Nos. 37 and 38 Park-row, New York.

BOILER FLUES FROM 1-4 INCH TO 7 INCH—Es outside diameter, cut to any length desired, promptly furnished by JAMES O. MORSE & CO., 14 17 No. 76 John-street, New York.

THE AMERICAN PUMP.—THIS VALUABLE invention has now been in operation one year, and gives universal satisfaction. Drawings and prices sent free. Patent rights, and rights to sell in limited territory, for sale on good terms. Address JAMES M. EDNEY, No. 147 Chambers-street, New York. 11 tf

SOLID EMERY VULCANITE.—WE ARE NOW manufacturing wheels of this remarkable substance for cutting, grinding and polishing metals, that will outwear hundreds of the kind commonly used, and will do a much greater amount of work in the same time, and more efficiently. All interested can see them in operation at our warehouse, or circulars describing them will be furnished by mail. 14 18 NEW YORK BELTING AND PACKING CO., Nos. 37 and 38 Park-row, New York.

GUILD & GARRISON'S STEAM PUMPS FOR all kinds of independent Steam Pumping, for sale at 55 and 57 First-street, Williamsburgh, L. I., and 74 Beekman-street, New York. 1 13 GUILD, GARRISON & CO.

IRON PLANERS, ENGINE LATHES, AND OTHER Machinists' Tools, of superior quality, on hand and finishing, and for sale low; also Harrison's Grain Mills. For descriptive circular, address New Haven Manufacturing Co., New Haven, Conn. 13 14

AGENTS SELL PROFITABLY "THE DOLLAR COPYING PRESS," saving press buyers several dollars. Portable and copies perfectly in one minute. Dealers and buyers will send stamp for particulars. 1* J. H. ATWATER, Providence, R. I.

5,000 AGENTS WANTED—TO SELL FOUR new inventions. Agents have made \$25,000 on one; better than all other similar agencies. Send four stamps, and get 80 pages of particulars, gratis. EPHRAIM BROWN, 13 18 Lowell, Mass.

BURNELL'S PATENT ROTARY PUMP—B adapted to all purposes of pumping, from the well and cistern to the steam fire-engine. The most simple, durable and efficient pump yet made. Principal sales depot at No. 32 Platt-street, New York. [13 13*] SAMUEL B. LEACH.

RARE CHANCE.—THE RIGHT FOR THE BEST Grain Fan and Separator ever invented for sale, or a partner with money sufficient for their introduction will be taken, or liberal arrangements made for their manufacture. 15 2* F. J. MAY, Beverly, N. J.

FOR SALE—STATE RIGHTS FOR A VALUABLE patent granted to Wm. H. Sherwood, Greenwich, Conn., March 13, 1860, notice of which was given in No. 13 of the present volume of the SCIENTIFIC AMERICAN. Full particulars given on application to SHERWOOD & MILLARD, Greenwich, Conn., N. E. Corner, Mantele, Table Tops, Billiard Table Beds, Pedestals, Mirror Slabs, &c., &c., made to order. 15 3*

J. PEFLEY'S ECONOMICAL AUTOMATIC Lath Machine is automatic in feeding, in counting, in signaling for turning-up, and in bunching the laths ready to tie, and rejects the bad timber. State and county rights or machines for sale. Address JACOB PEFLEY, Bainbridge, Putnam county, Ind. 15 2*

MODELS—IN EITHER WOOD OR METAL, for the Patent Office. HENRY J. BEHRENS, 15 8* No. 170 Chatham-street, in the rear.

PATENT SIGNAL GONGS FOR LOCOMOTIVES, steamboats and city railroad cars; also, steam and water gages, Ashcroft's low water detector, indicators, steam whistles, gage cocks, &c. See price list. E. BROWN, No. 311 Walnut-street, Philadelphia, Pa. 1*

WOODWORTH PLANING MACHINES—ON hand and in course of construction, at less prices than ever before offered. Address J. H. LESTER, No. 57 Pearl-street, Brooklyn, N. Y. 13

GRAY & WOODS' PATENT IMPROVED Planer: a combination of the Woodworth and Daniels' planers, particularly adapted for shop work, and for which we have obtained three patents and six medals. (See description and illustration in No. 8, present volume, SCIENTIFIC AMERICAN.) Also for sale, all kinds of wood-working machinery. Send for circular. Address GRAY & WOODS, No. 69 Sudbury-street, Boston, Mass. 16 17

Sur Beachtung für Erfinder. Erfinder, welche nicht mit der englischen Sprache bekannt sind, können ihre Mittheilungen in der deutschen Sprache machen. Erfindungen mit kurzen, deutlich gezeichneten Beschreibungen beliebe man zu beschicken an. R. Munn & Co., 37 Park Row, New-York. Auf der Office wird deutsch gesprochen.

PATENT EXTENSIONS.—ALL PATENTS FOR Inventions, granted by the United States during the year 1846, will expire by their own limitations during the current year (1860) UNLESS EXTENDED ACCORDING TO LAW. The statute provides for the extension of Patents for an additional term of SEVEN YEARS, the grant being made to the inventor himself, or if deceased, to his heirs and administrators. The EXTENDED TERM inures solely to the benefit of the inventor or his heirs. Assignees or owners of rights under the first term of the Patent have no rights whatever in the extended term. The inventor or his heirs may, however, sell their interests in the Extension prior to the grant thereof, in which case the Extended Patent, when granted, becomes the exclusive property of such purchaser. Applications for Extensions must be made at the Patent Office at least 90 days prior to the expiration of the Patent. The undersigned, having had great experience in Patent business, will promptly prepare the various documents and prosecute Extension cases on moderate terms. For further information address MUNN & CO., Solicitors of Patents, No. 37 Park-row (Scientific American Office), New York.

OIL! OIL! OIL!—FOR RAILROADS, STEAMERS, and for Machinery and Burning. Pease's Improved Machinery and Burning Oil will save fifty per cent., and will not gum. This Oil possesses qualities vitally essential for lubricating and burning, and found in no other oil. It is offered to the public upon the most reliable, thorough and practical test. Our most skillful engineers and machinists pronounce it superior to and cheaper than any other, and the only oil that is in all cases reliable and will not gum. The SCIENTIFIC AMERICAN, after several tests, pronounces it "superior to any other they have ever used for machinery." For sale only by the Inventor and Manufacturer, F. S. PEASE, No. 61 Main-street, Buffalo, N. Y. N. B.—Reliable orders filled for any part of the United States and Europe. 14 13

MAPES' AGRICULTURAL IMPLEMENT AND Seed Warehouses, Wholesale and Retail. All improved and standard varieties of Agricultural Machinery and Implements. Orders from correspondents promptly attended to, and special attention given to low contracts for freight. CHARLES V. MAPES, 24 17 128 and 130 Nassau and 11 Beekman-streets, New York.

W. M. WHITTEMORE (SUCCESSOR TO John Whittemore & Co.), No. 91 Maiden-lane, New York, Commission Merchant and dealer in Cotton and Woolen Machinery and manufacturers' supplies. 4 18*

PAGE'S LIME AND CEMENT KILN (PATENTS 1864-57-58)—Burns 100 bbls. with 2 1/2 cords of wood or one ton of anthracite coal, not mixed with the stone; will also burn rock marl or shell. Rights for sale by C. D. PAGE, patentee, Rochester, N. Y. 7 10*

APPEALS BEFORE THE JUDGES OF THE U. S. District Court, from the final decisions of the Patent Office, in Rejected Cases, Interferences, &c., are prosecuted by the undersigned on moderate terms. MUNN & CO., Solicitors of Patents, No. 37 Park-row (Scientific American Office), New York.

PLANT & BROTHER, NO. 14 NORTH MAIN-street, St. Louis, Mo., dealers in seeds and agricultural implements; also agents for the sale of iron and wood-working machinery, pumps, scales, engines, belting, hose and manufacturer's supplies. 10 12*

NEW SHINGLE MACHINE—THAT WILL RIVE and Shave 24,000 Shingles in a day, for sale by B. C. HILLS, No. 12 Platt-street, New York. 10 11*

PATENT MACHINERY AGENCY.—PATENTS and articles purchased and sold on commission. THOMAS J. SPEAR & CO., box 8 187, or 177 Canal-street, New Orleans, La. 9 11*

WROUGHT IRON PIPE, FROM ONE-EIGHTH of an inch to six inches bore; Galvanized Iron Pipe, (a substitute for lead.) Steam Whistles, Stop Valves and Cocks, and a great variety of Fittings and Fixtures for Steam, Gas, and Water, sold at wholesale and retail. Store and Manufactory, No. 75 John-street, and Nos. 29, 31 and 33 Platt-street, New York. JAMES O. MORSE & CO. 14 17

PECK'S PATENT DROP PRESS IS THE MOST perfect machine in use for the manufacture of copper, brass or tin-ware, Jewellery, spoons, &c.; and for the purpose of forming (with dies), it is superior to any other machine yet invented. All sizes of the above machines on hand or made to order, on short notice, by the patentee, MILO PECK & CO., New Haven, Conn. 7 15*

WOODWORTH PLANERS—IRON FRAMES TO plane 18 to 24 inches wide, at \$90 to \$110. For sale by S. C. HILLS, No. 12 Platt-street, New York. 1 17*

RECREATIVE SCIENCE.—A LONDON Monthly Record and Remembrance of Intellectual Observation; illustrated. Nos. 1 to 8 now ready; price 25 cents each; subscription, \$3 a year. WILLMEK & ROGERS, No. 42 Nassau-street, New York, Agents for the United States. 9 15 4*

DUDGEON'S PORTABLE HYDRAULIC JACKS for raising heavy weights, boilers, locomotives, cars, stone, stowing cotton, pulling, &c. Frames and platens for stationary pressing, of different sizes, made to order. Dudgeon's portable hydraulic pumps for pumping out earthen iron, die-sinking and other purposes where, with a limited water supply, great force is required. Send for a circular. DUDGEON & LYON, No. 466 Grand-street, New York. 8 18 60w

HARRISON'S GRIST MILLS—20, 30, 36 AND 48 inches diameter, at \$100, \$200, \$300 and \$400, with all the modern improvements. Also, Portable and Stationary Steam-engines of all sizes, suitable for said Mills. Also, Bolters, Elevators, Belting, &c. Apply to B. C. HILLS, No. 12 Platt-street, New York. 1 63w

JAGGER'S PATENT TURBINE WATER WHEEL Patented Oct. 19, 1853.—Several hundreds of these wheels have been put in operation during the past seven years; no water wheel that has been offered to the public during that period has given greater satisfaction, taking into consideration their cheapness, durability, simplicity of construction and economy. In the use of water they are by far the best wheels in use. They are manufactured only at the Machine Shop of Franklin Townsend, Albany, N. Y. All communications addressed to IRA JAGGER, the patentee, at Albany, will meet with prompt attention. 9 6 60am

BOILER PLATE PUNCHES.—RUST'S PATENT, manufactured and sold by the proprietor of the patent, B. C. HILLS, No. 12 Platt-street, New York. Price \$180. 1 1m

MESSEURS LES INVENTEURS.—AVIS IMPORTANT.—Les inventeurs non familiers avec la langue Anglaise, et qui prefereraient nous communiquer leurs inventions en Francais, peuvent nous adresser dans leur langue natale. Envoyez nous un dessin et une description concise pour no examen. Toutes communications seront recues en confiance. MUNN & CO., Scientific American Office, No. 37 Park-row, New York.