

25,929.—Joseph Adams, of Cleveland, Ohio (assignor to himself and B. Barker, of same place), for an Improvement in Cannon:

I claim the use and application of a piston for the purpose of loading, cleaning and cooling a cannon, the stem or end, G, of which passes through the breech or rear end of the gun, and is attached to a head or metallic piston, the circumference of which is equal to that of the bore of the cannon, and is made to fit the same exactly, and which piston-head, when drawn back, rests upon the main shoulder or substance of the breech at the point where the rod, G, connects therewith, and is of sufficient length to cover and serve as a valve to close the lateral opening at the breech end of the cannon, through which water is admitted to fill the bore of the gun when said piston is forced forward towards the muzzle, and which piston plays forward and backward, the entire length of the bore of the gun, so as to protrude sufficiently at the muzzle when forced forward, thus carrying out any substance of the exhausted cartridge after firing, and to which piston-head or bulb the new cartridge is attached and drawn back to the breech or butt of the gun by the force applied to said rod, and in which condition the gun is loaded and ready to be again discharged.

Second, I claim the construction and employment of a lateral opening from the main chamber or bore of the gun, either passing through the breech-pin or otherwise, at or near the rear end thereof, and where the same will be closed and covered by the piston-head, when the same is fully drawn back into (or by means of a tube or pipe connecting with a water-sack or vessel), and by means of which arrangement water is admitted and drawn into the gun by the same force which carries the piston forward to receive the charge at the muzzle and is returned to the vessel again by the same force which carries in the charge, thus washing and cooling the gun at every discharge, without any other movement than that necessarily employed in the act of loading alone.

25,930.—M. C. Cronk, of Auburn, N. Y. (assignor to himself, Wm. Boynton, Jr., and Albert H. Goss, of same place), for an Improved Mode of Feeding-in Fuel to the Fire-boxes of Cooking-stoves:

I claim, first, in combination with the stationary upper fire-box, a rocking or swinging fire-box underneath, having a flange or cut-off, or connected thereto, substantially as described.

I also claim, in combination with the rocking or swinging fire-box and cut-off, a rising and falling grate, H, substantially as described.

I also claim, in combination with the rocking or swinging fire-box, and rising and falling grate, a single rod or shaft, with its cams for operating both, substantially as described.

25,931.—L. W. C. Farrington, of Lowell, Mass. (assignor to Tuttle & Mudge, of Boston, Mass.), for an Improvement in Stoves:

I claim a parlor stove, having an oven, which is opened by raising the top in the manner substantially as set forth.

25,932.—Charles Younglove Haynes, of Philadelphia, Pa. (assignor to C. Y. Haynes & Co., of same place), for an Improvement in Razor Stropps:

I claim the stropp, when constructed substantially in the manner and for the purposes described.

25,933.—W. H. Howland, (assignor to himself and John O. Hanson) of San Francisco, Cal., for an Improved Amalgamator:

I claim the combination of a pair of grinding cones, F, G, revolving in different directions, with a horizontally-oscillating chambered dish, G, substantially as and for the purposes shown and described.

25,934.—Joseph Ives, of Bristol, Conn., for an Improvement in Watches:

I claim, first, The combination of the spring, B, lever, C, and cam, D, substantially in the manner as and for the purpose described.

Second, I claim the substitution of ribbed, corrugated, planished or unplished tin plate for running gear, &c., (for other metal) when used in combination with the rolling pinion, substantially as and for the purpose described.

Third, I claim making a crown-wheel with rollers instead of teeth, to prevent slide of the teeth upon the verge of the pinion, and for the purpose described.

25,935.—George W. Slagle, (assignor to himself and O. A. Dailey) of Washington, D. C., for an Improved Composition for mixing with Paints:

I claim making melamine oil, or a substitute for linseed oil, by mixing together linseed oil or other vegetable oil possessing similar qualities, water and sal soda, or other similar, suitable alkali, substantially in the manner set forth.

RE-ISSUES.

S. W. Hoffman and Adam J. Frederick (assignees through mesne assignment of Robert McWilliams) of Philadelphia, Pa., for an Improvement in Journal Boxes for Railroad-cars. Patented July 19, 1859:

We claim, first, The upper half, A, of the box with its socket formed by the flange, h, in combination with the lower half, B, of the box, when the two halves are arranged substantially as set forth, so that on adjusting the lower half to its place, it may assume the position shown in Fig. 1, and so that when adjusted, the end, w, of the oil-chamber shall be close to the axle, as and for the purpose specified.

Second, The self-adjusting leather-packing, E, and the metal plate, F, when both are dependent upon the lower half of the box for their proper position within the other half, and when they are otherwise arranged in respect to the upper and lower halves as and for the purpose set forth.

W. S. Stetson, of Baltimore, Md., for an Improvement in Harvesters. Patented April 5, 1859:

I claim, in combination with a main frame, H, supported upon two carriage wheels, A, which frame bears the shaft, M, and main cog-wheel, S, a second frame hinged to and vibrating about said shaft, M, so that the crank-shaft on said second frame shall always be in a radial line to the main cog-wheel, S, however much said second frame may vibrate on the main frame, as set forth.

Second, I claim supporting the crank-shaft, V, upon a vibrating-frame, R, intermediate between the cutter-bar or its shoe, X, and the main frame, H, when said main frame bears the main cog-wheel, S, and said intermediate frame vibrates or turns about an axis parallel to the axis of the driving or carriage wheels as set forth.

W. S. Stetson, of Baltimore, Md., for an Improvement in Harvesters. Patented April 5, 1859:

I claim, first, The main frame, H, which bears the pinion, K, and has its vibratory motions up and down independent of the motions of the platform and pole, in combination with the vibrating-rod, R, intermediate between the said main frame and cutter-bar, as set forth.

Second, I claim combining the adjusting-lever, Z, with the platform, C, and main frame, H, in the manner and for the purposes set forth.

Third, I claim giving to the main frame, H, which bears the driving-pinion, K, a back and forth motion upon the axle tree, as set forth.

W. S. Stetson, of Baltimore, Md., for an Improvement in Harvesters. Patented April 5, 1859:

I claim the combination of the shoe, X, with the vibrating-frame, R, by means of axis, y, at the rear end of said frame, as set forth.

Second, I claim horsing or supporting the knife-bar in a position at right angles, or nearly so, to the carriage axle by two movements, substantially as set forth.

ADDITIONAL IMPROVEMENT.

Joseph F. Hall, of Bangor, Maine, for Improved Curtain Fixtures. Patented March 9, 1858:

I claim the application of the lever as explained and as it is represented in Fig. 2, in combination with the cord and tassel, with the pulley or eye in the end of the tassel, and for the purpose described.

EXTENSION.

David B. Rogers, of Pittsburgh, Pa., for an Improvement in Cultivator Teeth. Patented Nov. 1, 1845. Re-issued Sept. 20, 1859:

I claim making the shank or upper part of cultivator teeth of thin plate steel, U-shaped or curved round in front, substantially as described, for the purpose of securing the necessary strength to permit the tooth to be made entire, shank and blade, of a single piece of metal, and also enabling the tooth to be secured in its place in the band by means of a wedge driven into the cavity of the shank, substantially as described.

DESIGNS.

Wm. Newton Brown, of New York City, for a Design for ornamenting Sewing-machines.

Andrew John Gallagher, of Philadelphia, Pa., for a Design for Cooking-stoves.

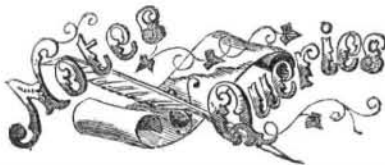
C. Harris and Paul W. Zoinier, of Cincinnati, Ohio, for a Design for Parlor Stoves.

Jeremiah Meger, of New York City (assignor to A. Sampson, of Manchester, N. H.) for a Design for Floor Cloths.

Thomas H. Wood, John E. Roberts and Henry S. Hubbell, of Utica, N. Y., for a Design for Cooking-stoves.

L. Q. C. Wishart, of Philadelphia, Pa., for a Design for ornamenting Bottles.

NOTE.—The foregoing list shows that SIXTY-THREE inventions have been patented this week; TWENTY-TWO of these patents, or more than ONE-THIRD, were either cases on which the specifications and drawings were prepared at this office, or rejected cases which have been prepared by the inventor or incompetent attorneys, and placed in our hands for attention.



W. A. H., of Miss.—Gold and silver are not attracted by the magnet, but are repelled by it. The metals which the magnet attracts are iron, nickel, cobalt, manganese, chromium, cerium, titanium, palladium, platinum and osmium. The metals which are repelled by the magnet are bismuth, antimony, zinc, tin, cadmium, sodium, mercury, lead, silver, copper, gold, arsenic, uranium, iridium and tungsten; bismuth being repelled with most force and the others with less force in the order in which we have written them. Your scheme for finding buried treasure by means of some delicate needle to be attracted by it is wholly impracticable. The idea that with hazel will indicate the presence of water, and all kindred notions, are merely the delusions of ignorance.

J. S. H., of Vt.—Vt. would be good physicians that as good a work on the ear as any is "Sight and Hearing," by J. Henry Clark. You can get it by sending to S. S. & W. Wood, No. 359 Broadway, New York.

S. B. B., of Texas.—Unquestionably you are practically safe from prosecution for merely stamping a name or mark on a United States coin, if you do not reduce its weight or materially disfigure it.

J. H. S., of S. C.—Water grates composed of tubes is a very old contrivance, though it has been seldom used. The difficulty you have anticipated has shown itself in the experiments which have been made with it; and besides, the tubes get loose, owing to their expansion being greater than that of the fire-box.

W. A. H., of Iowa.—The power necessary to raise 1,000 lbs. with a 3-foot lever attached to a screw of 1-inch diameter and 3/4-inch pitch is 221 lbs. if the friction is disregarded, and the same power is required with a screw of 3 inches diameter and of the same pitch if the friction in both cases is the same. The friction with screws is very large, and it depends entirely on the workmanship and on the power applied to the same in proportion to their strength.

A. B. T., of N. Y.—If you invent and put into use a device which some other person subsequently invents and patents, you are still at liberty to continue the use. A patent granted under the circumstances named is invalid and worthless. Our laws require that the applicant shall be the original and first inventor; if he is not so, the grant is of no value.

S. P., Jr., of N. H.—A cheap protection of the sheet iron covering of your buildings from rust is a coating of coal tar from the gas-works. It will cost you about \$2 per bbl.

J. McC., of Ohio.—Steam carriages on common roads have been tried repeatedly in this country and Europe, but we do not know of any one now running. Nearly 30 years ago, one was run over 30 miles an hour on one of the English turnpikes. The immense weight of a locomotive, jarring over a common road, causes such rapid wear that the expense of repairs has hitherto proved an insurmountable obstacle to their practical use. Lexington, Ky., is famous for its macadamized roads, and would perhaps be a good place for you to try your invention.

Wm. Allen Ingalls, of Chicago, Ill.—Wishes to correspond with a manufacturer of steel springs, with a view to purchase. Manufacturers will address him as above, box 4,206 Post-office. Similar inquiries to the above are made to us by every mail, and hereafter we propose to charge \$1 for inserting such inquiries in the correspondence column, the amount to be forwarded at the time the information is sought.

O. E. S., of Mass.—The spindle attached to the head-stock of a lathe is that which is called the line-center, and sometimes the line-spindle.

S. H., of N. H.—Wooden bobbins for factories can be made much cheaper from wood than india-rubber, and they are more durable, because the grease and oil used in a factory would soften the rubber.

R. M., of S. C.—We have received your specimen of copper ore. It appears to be very good, but without a quantitative analysis we could not inform you the amount of metal contained in it.

H. C. S., of Ill.—We are not acquainted with any process for softening fresh water shells. The application of heat will injure them, because they are principally composed of lime and a little gluten.

M. G. B., of Wis.—Air can be compressed so as to give out sufficient heat to ignite phosphorus and tinder. By compressing it to about three atmospheres—45 lbs. on the square inch—we have ignited a dry cloth prepared with niter.

W. B., of N. Y.—A non-conductor, such as a plate of glass, placed between a steel magnet and a piece of iron will not cut off the magnetic influence. A balloon, with a basket suspended from it and operated by a fan propeller, was exhibited in this city by Capt. Taggart, of Roxbury, Mass., about nine years ago. As your sketch represents a similar plan, of course it is not new. Captain Taggart endeavored to make an ascent from Jersey City, but his balloon was caught by some tall trees in the vicinity, and he came near being dashed to pieces by being thrown out of the basket. The excited crowd then cut the cords of the balloon, and after making a few surges, it bolted upwards and sailed aloft upon its solitary journey, and was never heard of afterwards.

A. C., of N. Y.—You can write indelibly on zinc with an ink made of nitrate of silver dissolved in ammonia, and thickened with a little gum arabic. We have been informed that Bath bricks are made of a peculiar kind of clay obtained at Bath, England, but we do not know the peculiar process by which they are rendered so porous.

J. R. N., of Ind.—The heat of the earth increases as we descend, at the rate of about one degree in every 50 feet. This increase is supposed to continue until the point is reached at which matter is melted, when it would necessarily cease; the freer circulation of the particles in a fluid state causing a nearly equal temperature throughout the molten mass.

S. S., of N. H.—Vinegar is composed of carbon, hydrogen and oxygen. Alcohol is composed of the same substances, in slightly different proportions. Almost all vegetable products, wine, cider, beer, starch, sugar, rosin, pitch, gum arabic, gum tragacanth, india-rubber, gutta-percha, prussic acid, &c., &c., are composed of three or all of the four organic elements—oxygen, hydrogen, nitrogen and carbon.

B. B. W., of Conn.—You propose to produce perpetual motion by the following arrangement: you balance with great delicacy a brass trough upon a pivot in the middle, and place within it a round iron ball. Under each end of the trough, you arrange a spiral spring and a spring-catch, the latter at such height that it will hold the end of the trough below the level of the fulcrum. As the iron ball rolls down to the end of the trough, it releases the catch, and the spiral spring throws up the end above the level of the fulcrum. In order to raise it still higher, so that the opposite end will hook under its catch, you arrange two magnets, one directly over each end of the trough, so that they may attract the iron ball, and thus assist the tipping of the trough. It will not work. The force of a magnet is in inverse proportion to the square of its distance, measuring to a short distance within its end. Your magnet would attract the ball at one inch distance with a force nine times as great as the force with which it would attract it at a distance of three inches. If the force of a magnet only increased directly with the square of the distance, your plan would surely work. How many perpetual motions have been upset with an *ix*? No doubt the Hon. Commissioner of Patents will grant you a patent for your invention, if you will exhibit to him a working model.

JOHN SMITH, JR., of D. C.—Your diagrams are at hand. We see no merit in one of your illustrations, and the other possesses no novelty, although much merit. Do not think you can get a patent on either. Have seen similar devices before.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Oct. 29, 1859:—

W. E. S., of N. Y., \$30; D. A., of Mo., \$40; A. P. T., of Ga., \$35; J. E. C. of Mass., \$35; N. J. E., of Wis., \$30; W. S., of Va., \$30; I. A. H., of R. I., \$25; J. W., of N. Y., \$55; C. H., of La., \$30; N. C. K., of Mass., \$30; G. S., of N. Y., \$30; R. & S., of Ohio, \$25; W. C., of Iowa, \$30; L. G., of N. Y., \$30; C. H. D., of Wis., \$30; G. B. H., of N. Y., \$250; T. S. B., of N. Y., \$25; W. A., of Pa., \$50; H. F., of La., \$30; C. H., of N. Y., \$30; O. S., of N. Y., \$30; W. J., of R. I., \$25; C. W., of N. Y., \$30; W. B. S., of Pa., \$25; J. W. H., of Ind., \$25; I. H. M., of La., \$175; S. B., of N. J., \$35; J. W. C., of N. Y., \$100; D. N., of Ill., \$30; S. W. C., of Mich., \$30; A. M. D., of Tenn., \$30; I. G., of N. Y., \$250; A. L., of N. Y., \$37; L. I., of Mich., \$25; R. M., of Pa., \$30; G. W. B., of Ala., \$37; H. A. R., of N. Y., \$35; A. L., of Ga., \$10; F. S. U., of N. Y., \$30; W. & R. F., of N. Y., \$30; E. M. & J. E. M., of N. Y., \$30; D. M. H., of Conn., \$30; J. M. H., of Miss., \$30; D. C., of Pa., \$25; E. S., of La., \$175; T. Van D., of N. J., \$30; N. H., of N. Y., \$10; L. B. D., of Ohio, \$25; P. K., of Conn., \$25; S. B., of L. I., \$50.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 29, 1859:—

L. J., of Mich.; W. J., of R. I.; P. N. B., of N. Y.; T. C. R., of N. Y.; A. L., of N. Y.; S. B., of N. J.; D. C., of Pa.; S. B., of L. I.; W. T. J., of Ill.; C. G. B., of N. Y.; W. J. H., of Ga.; J. A. H., of R. I.; L. B. D., of Ohio; J. W. H., of Ind.; C. H. D., of Wis.; G. W. B., of Ala.; W. F., of N. Y.; H. C. F., of Ohio; R. & S., of N. Y.; W. A., of Pa.; W. B. J., of Pa.; P. K., of Conn.

Literary Notices.

PARLOR THEATRICALS.—Dick & Fitzgerald, publishers, New York.—This work supplies a demand created by the rapidly increasing popularity of a fashionable amusement. Its little dramas are written in a sprightly, pleasant style, especially those by Mr. Arnold.

THE CORNER CUPBOARD.—Dick & Fitzgerald, publishers.—Every family ought to have an encyclopaedia, and if they cannot afford a \$45 one like Appleton's, let them get one for \$: like the "Corner Cupboard."

Hints to our Patrons.

BACK NUMBERS.—We shall hereafter commence sending the SCIENTIFIC AMERICAN to new subscribers from the time their subscriptions are received, unless otherwise directed; the back numbers can be supplied from the commencement of the volume to those who may order them. It is presumed most persons will desire the back numbers, and such as do will please to so state at the time of sending in their subscriptions; they can, however be supplied at any subsequent period.

INFALLIBLE RULE.—It is an established rule of this office to stop sending the paper when the time for which it was prepaid has expired, and the publishers will not deviate from that standing rule in any instance.

INVENTORS SENDING MODELS to our address should always enclose the express receipt, showing that the transit expenses have been prepaid. By observing this rule we are able, in a great majority of cases, to prevent the collection of double charges. Express companies, either through carelessness or design, often neglect to mark their paid packages, and thus, without the receipt to confront them, they mulct their customers at each end of the route. Look out for them.

GIVE INTELLIGIBLE DIRECTIONS.—We often receive letters with money inclosed, requesting the paper sent for the amount of the enclosure, but no name of State given, and often with the name of the post-office also omitted. Persons should be careful to write their names plainly when they address publishers, and to name the post-office at which they wish to receive their paper, and the State in which the post-office is located.

SUBSCRIBERS to the SCIENTIFIC AMERICAN who fail to get their papers regularly will oblige the publishers by stating their complaints in writing. Those who may have missed certain numbers can have them supplied by addressing a note to the office of publication.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within 14 years can obtain a copy by addressing a note to this office, stating the name of the patentee, and date of patent when known, and enclosing \$1 as fee for copying.

IMPORTANT TO INVENTORS.

AMERICAN AND FOREIGN PATENT SOLICITORS.—Messrs. MUNN & CO., Proprietors of the SCIENTIFIC AMERICAN, continue to procure Patents for Inventors in the United States and all foreign countries on the most liberal terms. Our experience is of thirteen years' standing, and our facilities are unequalled by any other Agency in the world. The long experience we have had in preparing Specifications and Drawings has rendered us perfectly conversant with the mode of doing business at the United States Patent Office, and with most 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 supervision of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given to the interests of our clients in Washington, and to the Patent Office, and others who may visit Washington, having business at the Patent Office, are cordially invited to call at any office.

We are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business we have Offices at Nos. 46 Chancery Lane, London; 29 Boulevard des Capucines, Paris, and 36 Rue des Eperonniers, 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 our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. We also furnish a Circular of information about Foreign Patents.

The annexed letters from the last two Commissioners of Patents were commended 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-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 your 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 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.

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

HARRISON'S GRIST MILLS.—20, 30, 36 AND 44 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 S. C. HILLS, No. 12 Platt-street, New York. 1 e3w

INSTRUMENTS.—A CATALOGUE (SIXTH EDITION), containing over 250 Illustrations of Mathematical, Optical and Philosophical Instruments; list of Stereoscope-pictures, with attention to a large sheet representing the Swiss Instruments in their actual size and shape, will be delivered, on application, to all parts of the United States, by sending 12 cents in postage stamps. C. T. AMSLER, 63 1/2 Chestnut-street, Philadelphia. Catalogues, without the large sheet of Swiss instruments, furnished gratis, on application. 10 6eow*

CLOCKS FOR CHURCHES, COURT-HOUSES, &c.; Time-pieces for Jewelers, Railroad Offices, &c. Also, Glass Dials for Illuminating, and other kinds. Address JOHN SHERRY, Manufacturer, Oakland Works, Sag Harbor, N. Y. 13 1/2 eow

WATER-HORSE PORTABLE STEAM-ENGINE. 7 1/2 inch diameter, 7 1/2 by 15, governor, balance-wheel, &c., attached to the boiler, all new. Price \$125. S. C. HILLS, No. 12 Platt-street, 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. 1 13

MANUFACTURERS OF MACHINERY, COPPER and Brass Work, will please send circulars or descriptive catalogues of their manufactures to box A 56, Post-office, New Orleans, La. 18 3*

TO MACHINISTS.—FOR SALE, STATE, County or Shop Rights for the manufacture of Wood's Oscillating-engine, illustrated in Vol. I, No. 16 (new series), SCIENTIFIC AMERICAN. Terms reasonable. Address ALFRED JEFFERY, Arsenal Post-office, Alleghany county, Pa. 18 5*

SALEM WIND TURBINES, FROM ONE TO ONE hundred horse-power, under perfect regulation. For illustrations address Treasurer of Turbine Manufacturing Co., Salem, Mass. 13 12*

THE FOLLOWING VILLAGE GAS-WORKS ARE now erecting under the Aubin system, viz.:—For the city of San Antonio, Texas; for the villages of Bath, N. Y.; Plattsburgh, N. Y.; Gloversville, N. Y. (changed from resin works); Rutland, Vt.; Dover, Del.; Jersey Shore, Pa.; Flemington, N. J.; Greensboro, N. C.; and Point Levis, Canada. For reference to the Aubin village works erected last year and this spring, where both consumers and stockholders are satisfied, apply to the Aubin Company, No. 44 State-street, Albany, N. Y. 15 13

HOMINY MILLS.—THE UNDERSIGNED IS manufacturing Fabyan's Improved Self-feeding, discharging and Separating Hominy Mill. For mills or rights, address 19 11* J. DONALDSON, Rockford, Ill.

TO SEWING MACHINE PATENTEES, INVENTORS, &c.—Just published, a Digest of Patents on Sewing-machines in the United States to July 1, 1884, giving the substance of each patent. Price \$2. Sent by mail on receipt of money. Address C. A. DUGGIN, No. 235 Broadway, New York. 1*

BANCATIN, INGOT COPPER, SPELTER, LEAD, Antimony, Rabbit Metal, &c., Mount Union Cut Nails, Ames Shovel and Spades, for sale by JOHN W. QUINCY, CO., No. 98 William-street, New York. 14 13.5w*

ALCOTT'S CONCENTRIC LATHES — FOR Broom, Hoe and Rake Handles, Chair-Rounds, &c.—price \$25 —and all other kinds of wood-working machinery, for sale by Imitf S. C. HILLS, No. 12 Platt-street, New York.

5,000 AGENTS WANTED—TO SELL FOUR new inventions. Agents have made over \$25,000 on 80 pages particulars, gratis. PHILIP BROWN, Lowell, Mass. 17 13*

DEAFNESS CURED, HOWEVER CAUSED, BY a new method. Address Dr. BOARDMAN, personally or by letter, at No. 974 Broadway, New York. 17 4*

INGERSOLL'S IMPROVED PORTABLE HAY and Cotton Press is the best and cheapest in the country. Farmers and planters will do well to examine ours before purchasing elsewhere. Prices for hay presses, \$50 to \$75; cotton presses, \$35 to \$200; delivered in New York free of charge. Liberal arrangements made with dealers. For circulars and further information, address the Farmers' Manufacturing Company, Greenpoint, Kings county, N. Y. N. B. Also on hand and made to order presses for Hides, Hair, Hemp, Husks, Broom Corn, Rags, &c. 17 6eow

PHILADELPHIA MACHINERY DEPOT.—Woodworth planing machines; mousing, tenoning and sash molding machines; also a large stock of lathes, iron planers, drills, chucks, &c., at reduced prices. Address CHAS. H. SMITH, No. 135 North Third-street, Philadelphia. 17 6*

MORRIS' PATENTED COMPRESSING OR End-pressure Wood-bending Machines, Circular Saw-mills, and Wood-working Machinery in general. 16 5* LANE & BODLEY, Manufacturers, Cincinnati, Ohio.

STEPHENS' DYES OR STAINS FOR WOOD—For dyeing and bringing out the grain of inferior woods in imitation of black walnut, mahogany, satinwood, rosewood or oak. Specimens and prospectuses sent to all parts of the States, on receipt of 15 cents in stamps. HENRY STEPHENS, Chemist, 16 8* 70 William-street, New York.

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.

KNITTING MACHINES, CIRCULAR AND straight, and machine-knitting needles, of all sizes and gauges, on hand and made to order. Address WALTER AIKEN, Franklin, N. H. 7 25*

W. M. WHITTEMORE (SUCCESSOR TO John Whittemore & Co.) 91 Maiden-lane, New York, Commission Merchant and dealer in Cotton and Woolen Machinery and manufacturers' supplies. 11 13*

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

PATENT EXTENSIONS.—ALL PATENTS FOR Inventions, granted by the United States during the year 1845 will expire by their own limitations during the current year (1885) 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 65 days prior to the extension 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.

THE COMPLETE PRACTICAL DISTILLER. By M. L. BYRN, M. D., with illustrations, 12mo. A new edition of this work just ready, and will be sent by mail free of postage; price \$1. HENRY CAREY BAIRD, publisher, Philadelphia. 17 3*

PHOTOGRAPHIC OUTFITS.—INVALUABLE to Manufacturers, Engineers and Architects for copying machinery, models, drawings, &c.; also for taking portraits, views and stereographs. Process very easy. Complete apparatus and instruction from \$30. Enclose a stamp for catalogue. C. J. FOX, Photographic Warehouse, No. 681 Broadway, New York. 17 3*

YATES' IMPROVED PATENT RAILWAY SHINGLE MACHINE.—Best ever patented. State and County rights can be had of W. H. G. YATES, Patentee, Chittenango, N. Y. Manufactured by Seymour & Adam, Rome, N. Y. 15 10*

WOODWORTH'S PATENT PLANING MACHINES, of every description and kind, at reduced prices, very low for cash, at the old stand, No. 57 Pearl-street, Brooklyn, N. Y. Send for a circular of styles and prices. Address J. H. LESTER, Brooklyn, N. Y. I am also manufacturing and selling as good Shuttle Sewing-machines, under legal rights, as was ever offered to the public, and for less money. For samples of sewing and stitching of prices, address 15 16* J. H. LESTER, No. 453 Broadway, New York.

HOSEIERY KNITTING-MACHINE FOR FAMILY and Plantation use; the most simple and complete Stocking-machine ever offered to the public. No family or plantation should be without one. Patent secured both in this and foreign countries, by the inventor and manufacturer, J. B. AIKEN, 84 Merchants' Exchange, Manchester, N. H. For an illustration and price of the machine, send for a pamphlet. 12 3mo

PECK'S PATENT DROP PRESS.—THE MOST perfect machine in use for the manufacture of silver, copper or tinware, spoons, jewelry, &c. Manufactured by the patentee. 4 22* M. O. PECK & CO., New Haven, Conn.

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. 14 13

NEW YORK MACHINERY DEPOT.—MILBANK & ANNAN (successors to A. L. Ackerman), manufacturers and dealers in Woodworth Planers, Wick's Patent Re-sawing Machines; Machinists Tools, Axes, Leather and Rubber-belting, and other goods of every description, No. 222 Pearl-street, New York. 9 24*

F. SCHOTT'S KNITTING-MACHINE, FOR THE manufacture of regular-fashioned hosiery, is now on exhibition at the Fair of the American Institute, New York City. 16 4*

CHARLES W. COPELAND, CONSULTING AND Superintending Engineer, No. 122 Broadway, New York. Plans and Specifications prepared for all kinds of Steam-engines and Machinery. Steam Vessels and Steam-engines, both new and second-hand, for sale. Also, Wire-rope, Steam and Water-gages, Indicators, Steam Fire-engines, Pumps, &c., &c. 10 13*

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 300 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, 13 14 Nos. 37 and 38 Park-row, New York

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 1f

CARY'S CELEBRATED DIRECT-ACTING SELF-Adjusting Rotary Force Pump, unequalled in the world for the purpose of raising and forcing water, or any other fluid. Manufactured and sold by CARY & BRAINARD, Brockport, N. Y. Also for sale by J. C. CARY, No. 240 Broadway, New York. 8 13

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

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. 14 13 GUILD, GARRISON & CO.

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. 76 John-street, and Nos. 28, 31 and 33 Platt-street, New York. 7 1f JAMES O. MORSE & CO.

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