



E. S., of La.—We make no charge for the drawing of Thompson's bagasse furnace sent you. Your remarks on steam boiler explosions contain no new ideas. We thank you for the complimentary manner in which you acknowledge the service we have rendered you, as well as for the gold dollar which you presume to be due us for postage. You are more thoughtful than most of our correspondents, and we trust others will in future take a pattern by your example. We pay every day from \$3 to \$5 for postage, much of which sum is paid upon letters of no profit to us, but to answer inquiries of interest only to those soliciting the information. We are willing to find paper and envelopes and to use our time in answering inquiries when stamps are enclosed for postage, but we do not like very well to prepay postage out of our own "till" to answer letters of interest only to the writers. Correspondents will please to heed our hint. A single stamp is small item, but in the aggregate of our correspondence, they cost us several hundred dollars every year.

C. H., of S. C.—A machine for making ice was invented and patented by the late Dr. Gorrie, of Apalachicola, Fla. He did not meet with success in his efforts, and so far as we know, there is not an ice-making machine in operation in this or any other country. If ice could be produced by machinery at \$5 per ton, there is no doubt it would be a source of immense profit to the inventor. If some of our savans of science would come down a little from their airy flights, and give this subject some of their attention, it would be honorable to them, and might result in a benefit to the human race. Members of the A. S. S., think of this!

J. G. T., of Ohio.—Carey's rotary pump has a spring behind the packing of the piston to compensate for the unequal wear. Your idea on this point, therefore, is now in practical operation.

J. F. H., of —. Chiropedists deaden the pain of corns in various ways before they operate. Ice, pressure, the application of laudanum and chloroform all tend to deaden the pain. We do not credit the ridiculous story going the rounds of the press about a dead body being found in a lake at Vermont, by some quicksilver being put into a loaf of bread and thrown into the water.

J. B., of Pa.—The carved work on wood is mostly executed by hand. Some ornamental moldings on looking-glasses are done with cement.

J. D. T., of Ky.—We do not advise the use of galvanized iron pipe for conducting water into houses, because the zinc is liable to decomposition. Persons do not generally perspire so much when asleep as when awake in warm weather—all other conditions being equal.

J. C. J., of Ala.—A good alloy for the journal-box of your wheel may be made by melting together copper 90 parts; tin, 10; lead, 3. Melt the copper first, then add the tin and lead, one after another until all are fused, when the alloy should be first run into ingots, then cast afterwards in a proper mold.

E. P. C., of —. To make your copal varnish dry much faster, add an ounce of the oxyd of manganese to it while hot, and stir well. From your description of the cutter and hollow mandrel for turning irregular forms, we judge that your invention is embraced in Alcott's lathe.

S. T., of Mass.—There is no such principle of action in mechanics as "suction," although most persons have a different opinion. That which is commonly called "suction" is "pressure."

J. B., of Mo.—To remove blood stains from cotton and linen, soak them first in cold water, then wash with soap. If you use hot water first, it will make the stains difficult to erase, as the heat will render the albumen of the blood insoluble.

H. M. S., of N. Y.—A bell is heard at a much greater distance when placed in a steeple than when situated near the ground. See an article on bells in our last volume, which explains this fact.

P. J. B., of N. Y.—The Alizarin ink is described on page 128 of our present volume. Wood vinegar is made by distilling wood in retorts, then purifying the liquid that is condensed. It is very strong unfermented vinegar, principally used in the arts of calico printing and dyeing, and for making the acetate of lead. Nordhausen vitriol is dry concentrated sulphuric acid made in Paris.

S. O. C., of N. Y.—We, like yourself, greatly desire to witness aerial navigation rendered safe and practical, but no plan yet proposed to us is reliable.

R. B. R., of Cal.—The substance which you have sent is very pure carbonate of lime (chalk), and is equal to the finest specimens of "French whiting."

W. F., of Ind.—If, as you state, electricity and cohesion are the same thing, how is it that electricity produces repulsion, which is the very opposite of cohesion?

Hiero, of Ohio.—We have made a careful examination of your rejected case at the Patent Office, and have delivered the report over to your correspondent here, from whom you will receive it. We found on examination that your papers were badly prepared, evidently by some one wholly unskilled in the business.

J. B. S., of N. Y.—Gypsum is calcined to deprive it of its water of crystallization, in order to convert it into plaster-of-Paris.

S. S. F., of Ohio.—Railroad car wheels have been constructed having two flanges. The idea is an old one.

W. Y., of Pa.—There is no substance known to us which is an effectual extingisher of the cockroach. The trap illustrated on page 83, Vol. XIV., of the SCIENTIFIC AMERICAN, is a good cockroach catcher, we believe. You had better try it. The advertised remedies are not of much account.

A. W., of Ohio.—We are aware that the practice of the Patent Office has somewhat changed in certain classes of cases, such

as agricultural implements, &c., in regard to how much shall be allowed under one application and one fee. A more liberal policy prevails in this respect than formerly, which we are glad to acknowledge.

C. D. P., of Ohio.—Our pamphlet of information to inventors contains just the advice you seem to need, and we would have mailed you a copy had you given us your Post-office address. Any of your neighbors who may be desirous of obtaining patents can be furnished with our pamphlet of advice gratis, by sending their addresses to this office.

G. M., of N. Y.—We have received information from the Hon. Lewis Cass, Secretary of State, from which it appears that, as your father has declared his intention to become a citizen, you are entitled to apply for a patent by paying the fee of \$30, which is the sum required of citizens. Being a minor, you are entitled to the rights and privileges secured to your parent.

F. B. S., of N. Y.—We think a patent can be obtained on your contrivance for holding paint-brushes in water, but whether it will pay you or not we cannot of course say. If you decide to publish it, we will get up an engraving and present it to the public through our columns. Please write us your decision.

S. F. D., of Maine.—You can find an account of Jonathan Hornblower's engine in Nicholson's Operative Mechanic, also Herbert's Encyclopedia. It was patented in 1771; and it does not appear that it gained public patronage or approbation, as it was in no way superior to Watt's expansion engine. If you procure a patent for an invention and another person patents an improvement upon it, he could not use your invention without paying you; neither could you use his.

THE BEST GRINDSTONE.—L. B. Johnson, of Cleveland Ohio, has remitted \$3 to pay for one year's subscription to the SCIENTIFIC AMERICAN, to be awarded to the person who shall exhibit, at the approaching State Fair to be held in Albany, the best grindstone for farmers' use. Will Col. Johnson please take notice?

S. N. T., of Mass.—A self-acting chain, made to operate by a coiled spring, could not be patented. Coiled springs have been employed for operating this and some other class of small machines requiring moderate power.

G. G., of Tex.—The building represented in the vignette which forms the heading to this paper is a very good representation of the Patent Office at Washington. Some years ago we represented the plan view of the building as it then was; but many improvements and changes have been since made, so that you would get only a poor idea of the interior of the structure, as at present, by inspecting the views referred to.

F. G., of Miss.—Your mosquitoes must be of a very vicious species, if they attack animals and persons, as you state. At the North, we use nettings over our beds, in some localities, for a few weeks; but the mosquitoes can usually be banished temporarily by burning a small piece of camphor in the room. Some very humane persons place a piece of raw beef in close proximity to their beds, and we are informed it answers the desired purpose; the mosquito will feast upon the beef so long as it is fresh, without troubling themselves to attack the "human form divine" for better aliment.

I. E., of Texas.—You propose to employ a windmill on the prairie to pump water from a spring into an elevated reservoir, the latter to be used for the purpose of a regulator to operate a wheel, so that a constant power may be obtained. The same plan has been suggested to us many times, and it may answer well for many situations where the winds are variable, so that when there is not a sufficient aerial current to move the mill, the reservoir, having a stored-up supply of water, may be used to operate a wheel. All windmills should be furnished with adjustable regulators for setting the vanes to suit the pressure of the wind.

C. D. M., of Miss.—Out of the fourteen volumes of the SCIENTIFIC AMERICAN which we have published, previous to the commencement of our New Series, we can furnish only four. We have a few copies left of Vols. VI., VII., XIII. and XIV., which may be had at our office at \$2.75 each, or by mail at \$3.50.

E. L. G., of Conn.—The friction on any journal is in proportion to the weight upon it, and the nature of the bodies in contact. The amount of it upon a smooth cast-iron journal working in a brass box, and lubricated with tallow, was found to be about one-fortieth of the pressure or weight. A smooth iron journal running in a box of gun metal gives the most favorable results. This subject is somewhat intricate, because much depends upon the nature of the lubricating agent to modify the effects of pressure. Lard, soap, sperm oil, and tallow, are good lubricating substances.

A. W. G., of Va.—The husking thimble is a convenient article. It can be obtained from J. H. Gould & Co., of Alliance, O.

L. F. M., of S. C.—The best way to prevent rifles from becoming rusty is to wash them well after being used, then dry the barrel with a wad of cotton, and finally wipe out with a rag saturated with turpentine.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Sept. 3, 1859:—

- G. & R., of La., \$35; L. B., of Cal., \$30; N. J. C., of La., \$50; G. A. C., of Conn., \$55; J. McC., Jr., of Mass., \$25; E. W. D., of Mass., \$15; E. F. J., of Ohio, \$55; S. T. T., of Ill., \$30; R. C. C. of Ga., \$30; L. L., of N. Y., \$55; J. P., of N. Y., \$35; G. A. C., of Conn., \$25; O. F. W., of N. Y., \$55; N. & B., of Tenn., \$30; E. H. H., of Ga., \$30; F. & C., of Pa., \$35; J. E., of Fla., \$30; W. T. L., of Mich., \$30; E. D., of La., \$50; R. L. & C. S., of N. Y., \$30; J. H. B., of Ind., \$30; J. M. C., of N. Y., \$25; R. L. U., of N. Y., \$15; O. F. W., of N. Y., \$35; G. W., of Pa., \$30; H. S., of Conn., \$30; J. A. B., of Pa., \$35; J. K., of N. Y., \$30; J. S., of Maine, \$30; J. O. G., of Cal., \$30; T. C. H., of Ga., \$30; J. H. R., of Iowa, \$30; A. S., of N. J., \$35; J. E., of Fla., \$35; C. T. P., of N. Y., \$350; W. H. B., of N. Y., \$35; D. W., of N. Y., \$30; G. J. P., of Mass., \$35; S. T. H., of Ill., \$25; G. G. N., of Mass., \$25.

We have also received \$30 in gold by the American Express Company, from some person unknown to us. We wish persons sending money by express would put their names on the corner of the envelope covering the remittance, if they have not time to write a note of explanation to enclose with it. Express companies, also, would oblige

their patrons, and often save themselves much trouble, by writing or stamping upon each parcel the name of the town from whence remittances or goods are sent.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 3, 1859:—

- A. K. of Ill.; J. P. of N. Y.; T. S. of Cal.; J. H. R. of Mich.; J. S. D. of N. J.; J. K. of N. Y.; R. L. U. of N. Y.; A. K. of Ill.; J. A. B. of Pa.; A. S. of N. J.; B. & C. of N. Y.; G. & M. of Ill.; E. W. D. of Mass.; J. McC., Jr., of Mass.; H. H. of Mass. (two cases); E. D. of La. (two cases); J. S. of Maine; J. A. of N. J. (two cases); T. & J. of Pa.; R. S. L., of Conn.; F. & C. of Pa.; S. F. Van C., of Cal.; E. F. J. of Ohio; G. A. C. of Conn.; O. F. W. of N. Y.; J. E., of Fla.; G. G. N. of Mass.; W. H. B. of N. Y.; S. T. H., of Ill.

Literary Notices.

KNITTING WORK: A Web of Many Textures, Wrought by Ruth Partington. Brown, Taggard & Chase, Boston; Sheldon, Blakeman & Co., New York.

That Mrs. Partington, a great old lady we are fully prepared to allow, and we can add that we are always glad to see her looking over her spectacles or proving like in the columns of our exchanges, but we think it rather too good a joke to pass unmentioned, to make a book out of the old lady's bad English and peculiar morals. With all due respect to the author, B. P. Shillaber, the book bears marks of forcing wit to fill the required number of pages, and although the paragraphs are well and funny in themselves, yet, like the man who borrowed a dictionary to read through, we must remark, "It is a very nice book, no doubt, but the plot is not quite clear." If the author is ambitious to appear between "boards," let him try something better, for he is capable of it.

A POPULAR TREATISE ON GEMS. By Dr. L. Feuchtwanger. D. Appleton & Co., New York.

This work is well illustrated, well written, and full of valuable information. The pluck of many technical and dry treatises will be found pleasantly served up in it, together with new facts and descriptions of American gems not found elsewhere. The introduction on crystallography is about as comprehensive and simple an elucidation of that science as we have seen. We think such a work was wanted, and will no doubt be appreciated now that it has come forth. The account of diamonds, their history and mode of cutting is peculiarly interesting to us poor folks who have them not, and in this work we can learn the history of the most celebrated ones, and look at their portraits, which is nearly as much as the possessors can do.

BLACKWOOD'S MAGAZINE, for July, contains a stirring article on Luther, Calvin, Latimer, and Knox, the four great reformers. Published by L. Scott & Co., Gold-street, New York.

History of the Scientific American and Important Information to Patentees.

We have printed a supplementary edition of the SCIENTIFIC AMERICAN, in which there is a history of its rise and progress, with illustrations of the building, externally and internally, showing the spacious rooms in which our immense patent business is conducted, and with life-like representations of the artists, engineers and specification writers at their daily labors. The same paper contains information on the many intricate points arising in patent law and practice, and comprises the best popular treatise on the subject ever published; it should be in the hands of all who are interested either in procuring, managing or using patented inventions. The legal information contained in this paper is the result of FORTYEEN YEARS' experience as patent solicitors, and it cannot be found in any other treatise on patent law. It also contains information in regard to Foreign Patents and Extensions. It is published in octavo form, sixteen pages, and mailed upon receipt of two three-cent stamps. Address MUNN & Co., publishers of the SCIENTIFIC AMERICAN, New York City.

Back numbers of the SCIENTIFIC AMERICAN, to the commencement of the New Series (July 2), are in all cases sent to new subscribers, unless the person ordering them directs to the contrary. Our object in so doing is that subscribers may have the volume complete, which nearly all desire.

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

RECEIPTS.—When money is paid at the office for subscriptions, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgement of our reception of their funds.

LOCKPORT WATER-POWER.—THE LOCKPORT Hydraulic Company, having completed their hydraulic canal and other necessary structures for bringing the water held by them under a grant from the State, into more extensive use, are now prepared to furnish sites and power for manufacturing purposes, on liberal conditions. They offer to make absolute sales of land and water, or to grant perpetual leases, reserving a moderate rent. The Lockport Water-power combines many important and peculiar advantages. It is created by the flow of the water from Lake Erie, as it passes around the locks and descends from the Erie to the Genesee Level. The fall at the locks is 57 feet, and the average fall from the hydraulic race to the lower level of the Erie Canal is 64 feet. The entire supply of water for the enlarged Erie Canal, from Buffalo to Seneca river, being a distance of 157 miles, is to be drawn from Lake Erie, and the capacity of the channel has been made ample to secure this result. Careful computation by the State Engineers, sanctioned by the Canal Board, and authenticated by Legislative documents, show that the quantity of water required to start from the foot of the locks at Lockport is 25,309 cubic feet per minute. Reserving 3,000 cubic feet per minute, the maximum required for lockages, there will remain a surplus of 22,309 cubic feet per minute to be discharged around the locks and applied to machinery on its passage from the upper to the lower level. This is deemed sufficient to produce 3,623 effective horse-power, estimating the effect at 75 per cent. of the whole power. The enlargement of the Erie Canal through the rock-cutting in the Mountain Ridge, which interrupted the water while the work was in progress, having been completed during the past year, the supply of water will hereafter be steady and uniform at all seasons. It is free from the variations of drouth and freshet incident to natural streams, and is capable of convenient division and distribution. The location is favorable for many branches of manufacturing business. Lockport is an active and growing town, with a population of over 19,000, surrounded by a fertile and prosperous farming country. The Erie Canal and the Central Railroad (both of which are immediately adjacent to the company's property) afford facilities for cheap and expeditious transportation throughout the year, and for supplying all necessary materials at the lowest rates. The Hydraulic Company have adopted a liberal policy, intended to encourage manufacturing skill and enterprise; and persons desiring to establish useful machinery will find satisfactory inducements. Arrangements have been made to furnish buildings and shafting at a cheap rent to mechanics of moderate capital wishing to employ all their means in active business or machinery. Applications may be made to the undersigned, or to B. Holley, Engineer, and Thomas T. Flagler, Treasurer of the Hydraulic Company, Lockport. Eastern applicants are referred to Messrs. Samuel B. & James F. Ruggles, Counselors-at-law, No. 6 Wall-street, New York, for full information in regard to the legal title and peculiar merits of the property.

CHARLES KEEP, Secretary.

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 (1855) 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 extension is granted 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 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.

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 22*

PARAGON COAL OIL BURNERS.—TO MANUFACTURERS OF AND DEALERS IN COAL OILS, AND COAL OIL LAMPS.—The above burners are admitted to be the best in use as to strength, least liability to get out of order, and ease of management, giving a larger blaze than any other burner. Lamps with the above burners, suitable for hand, hall, hanging bracket and side lamps; also, for Railroad Stations, Steamboats and Public Buildings. The best Burning and Lubricating Oils, as well as Lamps, in quantities to suit purchasers, at the lowest market prices. H. COULTER, No. 56 South Second-street, Philadelphia, Pa. 8 4*

HARRIS BROTHERS' PATENT STONE, SMUT and Scouring Machines and Fans; warranted the best in use. These machines are extensively used in New York, Richmond, Rochester and in other parts of the United States; also, in Mexico, England, Ireland, Canada and South America, and are comparatively as much superior to metal machines for smutting and scouring grain as a burr-stone is superior to a metal mill for grinding. Also, their Improved Rice-hulling Machines, which are unequalled. For particulars, address the subscribers, at Elizabeth, N. J. HARRIS BROTHERS. 10 2

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

PARTNER WANTED.—WITH \$5,000 OR UPWARDS, to take an interest in three good inventions, to manufacture and introduce them in this and other countries. Also, a process for making extra meal. The germ is separated from the corn before it is ground. For particulars, send a stamp. O. P. STEVENS, Cleveland, Ohio. 11 6*

SLIDE LATHES, IRON PLANING-MACHINES, Bolt-cutting Machines, Drills, &c.—A large stock on hand, at reduced prices. Address CHARLES H. SMITH, 135 North Third-street, Philadelphia. 11 6

15 HORSE HORIZONTAL STEAM-ENGINE, 10-inch bore, 24-inch stroke, with 7-foot fly-wheel, governor, pumps, &c., complete. A first-class engine at a bargain. CHARLES H. SMITH, 135 North Third-street, Philadelphia. 11 8

A RECIPE FOR THE CURE OF HEAVES IN Horses will be sent to any one desiring it, for \$1. A cure warranted in all cases, if given according to directions, which accompany the recipe. Address G. W. BACHMAN, Clifton Springs, N. Y. 11 1*

THE MOST VALUABLE BOOK OF THE AGE.—"The Graefenberg Manual of Health" has been revised and improved, and elegantly illustrated with beautifully colored engravings of the human system. Sent by mail to any part of the country on receipt of 25 cents. It is a complete guide to all diseases and their cures. It is written in plain style, and without scientific medical phrases, so that it can be comprehended by any one. The New York "Tribune" says:—"The Graefenberg Manual of Health" is an able and comprehensive family book." Address orders to JOSHUA F. BRIDGE, M. D., Secretary and Consulting Physician Graefenberg Company, No. 32 Park-row, New York. Dr. B. is constantly in the office of the Graefenberg Company, where he will receive letters from or hold personal consultation with invalids. 11 4

FOR SALE.—STATE RIGHTS FOR A MACHINE that is capable of husking 50 bushels ears of corn per hour. Litters of the machine, with full description, sent to parties wishing to purchase. The patentee would dispose of the entire right, as his time is fully occupied in other business. Address WM. H. SMITH, Post-office box 60, Newport, R. I. 9 24*

NOW READY.—QUACKENBOS' NATURAL PHILOSOPHY, for Schools and Academies. 12mo., 456 pages; \$1. The attention of Teachers and School-officers is asked to this new School Philosophy, by G. P. Quackenbos, the popular author of the "Rhetoric," "First Lessons in Composition," and "Illustrated School History of the United States." It is illustrated in the most liberal manner, is equally adapted to use with or without apparatus, and is believed to possess superior claims to consideration in point of arrangement, accuracy, elegance of style, general interest, and adaptation to the wants of schools. Numerous errors current in the School Philosophies of the day are here corrected, and all recent discoveries in the various branches of the subject are embodied. Confident that this is such a work as is demanded by the progressive spirit of the age, and desirous of getting it before the educational world, the publishers will send a copy for examination, post-paid, to any Teacher or School-officer emitting one-half its price. Also, "History of France," from the Earliest Times to MDCCCLXVIII. By the Rev. JAMES WHITE, author of "The Eighteen Christian Centuries." 1 vol., 8vo., Price, \$2. D. APPLETON & CO., No. 346 and 348 Broadway, New York.

D. A. & Co. also publish a large and valuable assortment of School, Academic and Collegiate Text-books, including the departments of English, Latin, Greek, French, German, Spanish, Italian, Hebrew and Syriac. A complete Descriptive Catalogue will be sent, gratis, upon application. Nearly ready, a series of Outline Maps, by the author of "Cornell's Popular Series of School Geographies." Also, Cards for the Study and Practice of Map-drawing, by the same author. CO. D. APPLETON & CO., No. 346 and 348 Broadway, New York. 10 2

FOR SALE.—A 10-INCH WATER-WHEEL Shaft, 14 feet 9 inches long, with Flanges and Pi ar Blocks, all in good order; will be sold very low. Apply to R. T. CORNELL, Hart's Village, Dutchess county, N. Y. 10 4*

IMPROVED SPRING BALANCES, CAPABLE of sustaining from 8 ounces to 1,000 pounds each, suitable for Post-office Scales, Butchers, Grocers, Fruit and Flour Dealers; also much used by Leather Inspectors. Flat and Tubular Cord-motive Balances; also, French and Spanish Weight Balances, made to order and for sale by the manufacturer, THOS. MORTON (late Morton & Bremner), 215 Pearl-street, New York. 10 4*

FOR SALE.—THE WHOLE OR A PART OF the right to Brown's Improved Cotton Gin, designed for ginning Sea Island and all long staple Cotton. Warranted to gin 500 pounds per day, without breaking seed or injury to the fiber; patented March 29, 1852. For particulars, address H. W. BROWN, Millville, N. J. 10 2*

THE GREATEST POWER KNOWN FOR THE Cost and Weight of Instrument.—Heavy Presses, adapted to all purposes, of any capacity: the power applied up, down, or horizontal. Hand Presses, light and heavy; Lifting Jacks, all sizes; one of two pounds weight with a two-inch lever warranted to lift one ton; also, Funches for Boiler-makers, on an entirely new principle. Address 5 6*

THE AUBIN VILLAGE GAS WORKS WERE erected last year by gas companies in several States and in Canada. The success attending these works has already led to the erection of one city and one village work this season, has secured three village works for immediate erection, and so nearly secured five more that they may be relied on before August next. For reference apply to the Aubin Company, No. 44 State-street, Albany, N. Y. 1 13

CALIFORNIA AGENCY FOR PATENTS.—WETHERED & TIFFANY, San Francisco, will attend to the sale of patent rights for the Pacific coast. References:—Messrs. Tiffany & Co., New York; Wethered, Brothers, Baltimore; George W. Bond & Co., Boston. 4 13

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*

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.

STEAM BOILERS FOR SALE.—NEW AND Second-hand Boilers, from One to Twenty-horse Power. Enquire or address WM. FINNEY & CO., No. 167 Water-street, Brooklyn, L. I. 6 6*

IRON PLANERS, ENGINE LATHES, AND OTHER Machinists Tools, of superior quality, on hand and finishing, and for sale low, also, Harrison's Grain Mill. For descriptive circular, address New Haven Manufacturing Co., New Haven, Conn. 9 13

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

SCIENTIFIC BOOKS AND PERIODICALS. English, French and American Scientific Books and Periodicals supplied promptly to order by JOHN WILEY, 56 Walker-street, New York. Catalogues gratis. Foreign orders forwarded as often as once a week. 9 4*

SOUTH CAROLINA INSTITUTE FAIR, TO BE held in Charleston, November 15, 1850. Competition open to all. Held for the promotion of Art, Mechanical Ingenuity and Industry, at their large and commodious building in the city of Charleston, S. C., commencing on Tuesday, Nov. 15, 1850. Suitable premiums will be given for the best specimens in Art, Mechanism, and other branches in Industry. Also, for Cotton, Rice, Sugar, Tobacco, Corn, Wheat, Rye, Oats, Potatoes, and other Agricultural Products. The ladies, to whom the Institute is so much indebted, are respectfully informed that suitable premiums will be provided by the committee, and awarded for the best specimens in every department of ladies' work. All articles entered for premiums must be sent in on or before Friday, the 11th day of Nov. next, directed to the care of Mr. THOS. AIMER, Clerk of the South Carolina Institute, Charleston. Articles may be sent after that day for exhibition only. Contributors to the Fair are respectfully requested to send full descriptions of the articles, and such general information as may be of use to the Judges, and suitable for publication. Every attention will be paid to all articles sent for exhibition. 9 3*

LEATHER AND RUBBER-BELTING, ENGINE and Hydraulic Packing, Heater Pipe-rings, Printers' Blankets, Roller Leather and Roller Cloths, Machine Cards, superior Lacing-leather, and all articles usually required for Manufacturers' use, for sale by MOSES H. EMERY, 113 Arch-street, Philadelphia. 10 4

INSTRUMENTS.—CATALOGUE (SIXTH EDITION), containing over 250 Illustrations of Mathematical, Optical and Philosophical Instruments; list of Stereoscope-pictures, with attachment of 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 13 cents in postage stamps. C. T. AMSLER, 636 Chestnut-street, Philadelphia. Catalogues, without the large sheet of Swiss instruments, furnished gratis, on application. 10 6eow

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

CAST-STEEL WIRE—IN THE ROUND; ALSO, Flattened and Tempered, for Crinoline purposes. For sale by the importer, THOMAS MORTON, 212 Pearl-street, New York. 10 4*

IMPORTANT TO MANUFACTURING JEWELERS and others.—Lava, for the manufacture of Brooches, &c. Just received, a fresh importation of the genuine raw material, 22 shades of carbon. This Lava is positively indestructible. 10 4*

CLOCKS FOR CHURCHES, COURT-HOUSES, &c.; Time-keepers for Jewelers, Railroad Offices, &c. Also, Glass Dials for Illuminating, and other kinds. Address JOHN SPERRY, Manufacturer, Oakland Works, Sag Harbor, N. Y. 9 13* eow

INGOT COPPER, SPELTER, BANCA TIN, LEAD, Antimony, Babbitt Metal, Mount Hope Cut Nails, Ames' Shovels and Shades, for sale by JOHN W. QUINCY & CO., 13 16e5*

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 S. C. HILLS, No. 12 Platt-street, New York. 1 6eow

A MESSIEURS 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 notre examen. Toutes communications seront recues en confiance. MUNN & CO., Scientific American Office, No. 37 Park-row, 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.—Re liable orders filled for any part of the United States and Europe. 1 13

STEAM ENGINES, STEAM BOILERS, STEAM Pumps, Saw and Grist Mills, Marble Mills, Rice Mills, Quartz Mills for gold quartz, Sugar Mills, Water Wheels, Shafting and Pulleys. The largest assortment of the above in the country kept constantly on hand by WM. BROOKLYN, No. 102 Front-street, Brooklyn, N. Y. 1 13

MACHINE BELTING, STEAM PACKING, ENGINE HOSE.—The superiority of these articles, manufactured of vulcanized rubber, is established. Every lot 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 gluing, and is warranted to stand any required pressure; together with all water of rubber adapted for 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, Nos. 37 and 38 Park-row, New York. 1 13

TABLES SHOWING THE HORSE-POWER obtained from a Belt of a given width and velocity. Price, post-paid, \$1. Address A. H. SAUNDERS, Nashua, N. H. 9 4*

PORTABLE COAL GAS APPARATUS.—IT IS A Fixed Fact!—The Gas Generating Co. is a great success, and their apparatus works beyond their most sanguine expectations. It is to be seen in operation at the Grand St. Denis Hotel, 801 Broadway, German Clubhouse, 108 Fourth-avenue, and at the office of the Company No. 512 Broadway, opposite the St. Nicholas Hotel. Judge for yourselves, and recollect. HENDRICKX BROTHERS, Patentees. 1 11

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 1*

HOYT BROTHERS, MANUFACTURERS OF Patent-Stretched, Patent-Riveted, Patent-Jointed, Oak-Leather BELTING. Store, Nos. 28 and 30 Spruce-street; Manufactory, Nos. 310, 312, 314 and 316 Eldridge-street, New York. A "Treatise on Machinery Belting" is furnished on application, by mail or otherwise, gratis. 1 13*

LARD OIL MANUFACTURERS—MESSRS. WM. SKENE & CO., manufacture purified Lard Oil of the best quality, for machinery or burning, in Bull-street, four doors below Main, Louisville, Ky. 1 14*

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 by CARY & BRAZAR, Brokers, No. 240 Broadway, New York. Also for sale by J. C. CARY, No. 240 Broadway, New York. 8 18

FELT FOR STEAM BOILERS, PIPES, SHIP Sheathing, Marble Polishers, Jewelers and Calico Printers' use, manufactured by JOHN H. BACON, Winchester, Mass. 1 10*

BOILER FLUES FROM 1-4 INCH TO 7 INCH—8 outside diameter, cut to any length desired, promptly furnished by JAMES O. MORSE & CO., No. 76 John-street, New York. 7 1*

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.

LUCIUS W. POND, MANUFACTURER OF Superior Planing-machines for Iron, Engine Lathes and Machinists Tools generally. Address L. W. POND, Worcester, Mass. 2 10*

RARE CHEMICALS, METALS, SOLUBLE Glass, Oxide, Uranium, Cobalt, Manganese, Platina, Aluminium, Bismuth, Zaffre, Fluor-spar, Asbestos, French Chalk, Insect Powder, Nitrates of Strontia and Barita, Chlorate of Potash, Bi-sulphide of Lime, Plumbago, Best Oils, Cognac, Rye, Gin and Rum, for sale by Dr. LEWIS FEUCHTWANGER, No. 143 Mulden-lane, New York. N. B.—Treatise on fermented liquors and 1,000 directions. 3 10*

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 No. 29, 31 and 33 Platt-street, New York. 7 1*

CROSSETT'S PATENT STAVE CUTTER—PAT-ented July 1, 1844; re-issued March 2, 1852; renewed and extended June 26, 1852.—This above mentioned machine is warranted to cut more and better staves than any other machine in the United States, and is the most simple, cheap and durable. I hereby caution all persons against using and vending said machine (the main feature of which consists in the stationary knife and vibratory bed-piece) without the legal right to do so. Offenders will be dealt with according to law. All persons wishing an interest in the extended term of said patent can obtain it by addressing the undersigned at Joliet, Ill. 5 10 GEO. I. CROSSETT, Assignee.

CHRONOMETERS, FINE WATCHES, NAUTICAL AND ASTRONOMICAL INSTRUMENTS, &c.—D. EGGERT & SON, No. 239 Pearl-street, New York, offer on favorable terms first-class Marine, Siderial and Pocket Chronometers; also, plain and finer quality of Watches, with new series train, so thoroughly adjusted as to be unaffected by any change of temperature, exercise or position in the pocket; Astronomical Clocks, Transit Instruments, Standard and Self-Registering Thermometers, Barometers, &c. 1 18eow*

PAGE'S LIME KILN (PATENTED 1854-57-58) Will burn 100 lbs. lime with 2 1/2 cords of wood or 1 1/2 tons of coal in 24 hours. Coal not mixed with stone. It will burn all lime rock, marl or shell. Rights for sale by C. D. PAGE, Patentee, Rochester, N. Y. 2 10*

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