

clamp formed of the head, D, and disk, f, arranged substantially as and for the purpose set forth.

Second, In combination with the pressure roller, L, head, D, and disk, f, the ring or band, B, provided with the pins or strips, I, the socket, F, provided with the screws or pins, J, and the guide plate, G, arranged for joint operation as and for the purpose described.

Third, The arrangement of the pressure lever, H, and sliding mandrels, B C, for the purpose specified.

Fourth, The employment or use of the folding device formed of the plate, N, provided with the ledge, u, and the pivoted bar, v, when said folding device is used in connection with the pressure roller, L, rotating head, D, and disk, f, for the purpose set forth.

[This invention relates to a machine that is designed to facilitate the manufacture of paper boxes, and consists in the employment or use of a rotating clamp, gage or socket, discharging ring, pressure roller and guide: the parts being so arranged and used in connection with a folding device, that the manufacture of the above-named boxes is greatly expedited and the work done in a perfect manner.]

25,374.—Joseph Wesley (assignor to Joseph B. Wesley), of Providence, R. I., for an Improvement in Skeleton Skirts:

I claim a new article of manufacture, to wit, a skirt having its hoops supported by tapes or straps, which are rendered adhesive by the application of caoutchouc or gutta-percha, in the manner and for the purpose substantially as described.

[This invention consists in a skirt having its hoops secured to their supporting straps, at their several points of intersection, by the application of india-rubber, gutta-percha, or their equivalents, in an adhesive condition between the hoops and two plies of which the straps, or those parts of them which cross the tapes, are composed. The skirt thus made constitutes a new article of manufacture, and is more durable than any other kind.]

RE-ISSUES.

William S. Lavelly and James M. Cooper (assignees of Josiah Ells), of Pittsburgh, Pa., for an Improvement in Revolving Fire-arms. Patented Aug. 1, 1854:

We claim, first, The use of a stud in the trigger vibrating laterally in combination with a bevel-edged hammer, for the purpose of raising the hammer to full cock and firing the piece by simply pulling the trigger, which, after the discharge of the piece, will regain its position for repeated action, or (as a mere modification of arrangement) the use of a stud in the hammer vibrating laterally, in combination with a bevel-edged trigger, for the purpose specified.

Second, The use of a bevel-edged hammer, with or without a notch in its toe, and trigger with vibrating stud and cam for the trigger spring, constructed and arranged substantially as described, for the purpose of causing the hammer, trigger and revolving breech to assume their proper relative positions at full cock by simply pulling the trigger, and retaining them in that position and securing the breech from rotation or displacement preparatory to firing.

Third, The notch or depression in the toe of the hammer at the point of contact of the stud and edge of the hammer, in combination with the laterally vibrating stud, for the purpose of preventing the slipping of the stud and the more easy retention of the hammer at the point of full cock.

Fourth, The mode hereinbefore described of locking the rotating breech at the moment of firing by means of the locking bolt operated by the trigger, in combination with the hexagonal neck of the rotating breech, which nevertheless permits the breech to be freely rotated by hand or otherwise when the trigger is not drawn back.

Fifth, The use of a double trigger spring or spring and lever, for the purpose set forth.

Henry Jenkins, of Cincinnati, Ohio, for an Improved Ornamental Connection of the Parts of an Iron Fence. Patented Jan. 30, 1852:

I claim forming the ornament or cast-iron connections for a railing, fence or other article of iron, cast into a divided iron mold, substantially as and for the purpose specified.

Jacob H. Mumma, of Harrisburgh, Pa., for an Improvement in Straw-cutters. Patented Jan. 26, 1858:

I claim, first, The combined application to straw-cutting machines of a changeable feed gear, with two-edged revolving cutters or blades, when so made as that, by changing them end for end on their arms or supports, they shall bring a different cutting edge into action, or when run in either direction, shall always feed in the material in one and the same direction, substantially as and for the purpose stated.

I also claim the combination of feed rollers acted upon by tappets and the crushing rollers controlled by gun elastic springs, when arranged in relation to, and acting in connection with the cutting apparatus, as described and represented.

John W. Marsh, of Oxford, Mass., for an Improvement in Sewing Machines. Patented Oct. 27, 1857:

I claim, first, The combination of the slide, A, provided with its guard, E, and its slot or slots, C D, with the foot-piece, M, with its guide, N, and slots, arranged and operating substantially as described.

Second, I claim the combination with the sewing apparatus, or its equivalent, of a movable knife operated by a connection with the sewing machine, so as to trim or cut the work whilst being sewed, substantially in the manner and for the purposes as set forth and described.

DESIGNS.

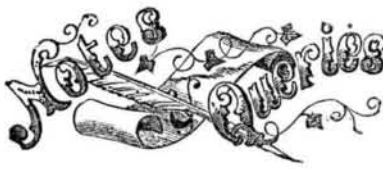
Philo B. Gilbert, of New York City, for a Design for the Handles of Spoons and Forks.

Elmira J. Ney, of Lowell, Mass., assignor to the Lowell Manufacturing Company, for a Design for a Carpet Pattern.

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 FOURTEEN 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, with which nearly all desire.



A. K. E., of Mass.—By an Act of Congress the whole matter of copyright for books, pamphlets, works of art, labels, &c. has been placed under the supervision of the Commissioner of Patents. His construction of the law is likely to interfere with the vendors of patent medicines and some other tradesmen who have been in the habit of copyrighting labels for their bottles and boxes. The Commissioner decides that when a production is issued as a work of art, and is intended for sale as such, it may be copyrighted; but that when not produced for sale as a work of art, but evidently for a label, it falls under the patent laws. A copyright costs fifty cents, and gives a monopoly for twenty years, whilst a patent costs \$5, and gives a monopoly for but seven years; on applications for patents for such designs, drawings and a specification are necessary. We are prepared to undertake your case, and to prepare all the papers whenever you are ready to proceed.

D. M., of Ill.—Your rotary engine is an entirely impracticable thing. You may get a rotary motion of the wheel by the mere impact of a jet of steam acting on the concave surfaces of the buckets, but without an abutment for the pressure of the steam to act against you will get no available power. With the addition of such an abutment you will have one of the oldest forms of rotary engines which, with various modes of applying the abutment, is described in the earlier numbers of Vol. IV of the SCIENTIFIC AMERICAN, under the caption of "History of the Rotary Steam-engine."

L. I., of Ind.—The mathematical problem you present for our solution is by no means a difficult one. The area is equal to 537,940 square feet, or 12 acres and 56 square rods.

R. M., of —. If you have invented any new process, you are entitled to a patent for it. Until your plan is clearly described to us, we cannot pronounce an opinion regarding it.

J. J., of Conn.—The parties who build, or use, or sell a patented machine are liable to prosecution. They may be prosecuted either separately or collectively.

M. G., of Md.—All the wine exported to this country contains some spirit for the purpose of preserving it; brandy is generally used for this object. This spirit is also frequently added to blackberry wine, but it is not absolutely necessary if the wine is bottled, sealed, and kept in a cool cellar.

C. C. S., of Vt.—Cast-iron water-pipes will not last so long as those of lead; and small wrought-iron pipes endure but a very short time. The tincture of iodine diluted with one-half its bulk of water, is a superior liquid for Browning gun barrels.

J. W. H., of Iowa.—Blanchard's patent for turning irregular forms will not expire until January 20, 1862.

J. H. C., of Ga.—You will find knitting-machines advertised in our columns. A planing-machine can be purchased of S. C. Hills, 12 Platt-street.

S. H., of Maine.—Why a cold stove, which had been in use two years, should break across the top, and in 15 minutes crack the second time, belongs to a very mysterious department of nature, the molecular change in solid substances. The wrought-iron axles of railroad-cars have sometimes been found, after long use, to present a decidedly crystalline structure. Barley sugar is at first amorphous, but gradually crystallizes while retaining the solid state. But why this change takes place nobody knows.

F. H. A., of Mass.—There is no rain in the upper portions of the atmosphere. If, even in the tropics, we ascend only three miles into the air, the rays of the sun seem to have lost their power, and we shiver with the cold. If the moisture is here condensed at all, it is in the form of hail or snow, which melts into rain only after it has fallen into the lower and warmer air. Warm air will hold more moisture than cold air; and when warm air that has become saturated with moisture is cooled, a portion of the water is squeezed out of it, and falls, in the form of snow, hail or rain.

C. F. S., of N. C.—Charcoal dust mixed with night-soil will render it inodorous, without injuring it as a manure. Quick-lime or sulphuric acid will also destroy the smell with some damage to the manure. We have just received a recent French periodical which contains a detailed description of a new process for rendering night-soil inodorous, and preparing it for transportation; but the account is too long for our columns. The substances used are charcoal, sulphuric acid, muriatic acid, and salt.

F. J. J., of Conn.—Tidal wheels are nearly like the undershot kind. They are constructed in a similar manner, and have straight radial buckets. They answer very well for some situations but can only be used during certain hours each day. In several places on Long Island these wheels are still used on the salt creeks; there is a very aged one (which is sometimes employed for grinding plaster) on Newtown Creek, in Williamsburgh, N. Y.

A. W., of Maine.—We cannot refer you to any person in London connected with the painting of dissolving-views on exhibition at the Polytechnic Institution of that city.

H. W., of N. H.—You will find a full description of Hill's Air Light on page 109, Vol. XIV. SCIENTIFIC AMERICAN. It will be well for you and others desiring information on this subject, to read the article referred to with attention.

H. C., of N. J.—A little oil of cloves poured into a bottle containing gum mucilage prevents the latter from becoming sour and putrid; this essential oil possesses great antiseptic powers.

G. B., of N. Y.—We do not understand the principle of vegetable life, nor do we know any person who does. This is one of those secrets of nature which she has not yet revealed to man, and one which, we believe, he never can comprehend.

J. A., of Ill.—It would take up too much of our space to describe the construction of the engines of the frigate "General Admiral." In Vol. XIV. SCIENTIFIC AMERICAN, you will find a partial account of their dimensions. There have been some works on propellers published in London.

M. G. F., of N. Y.—The black enamel to which you refer on iron mantel-pieces is composed of a paste of protoxyd of iron and cobalt put on the metal and fused in a proper oven. Common blackmantel-pieces are colored with asphalt varnish. Several coats are put on as a base, and when dry are rubbed down, and a finishing coat of copal is put on.

C. S. G., of Ga.—You may freely make the matches described in No. 7, this volume, without phosphorus, while the foreign inventor has no patent. They are somewhat dangerous to make, like all other friction matches. We do not know where agate buttons are manufactured in this country. They are not made of the natural agate, but variegated glass.

W. P. B., of Del.—It requires about an equal amount of heat to evaporate a certain quantity of water, whether under low or high pressure.

C. D., of Conn.—Rough brass castings may be rendered bright by scouring them in a warm bath of dilute sulphuric or muriatic acid, then washing them in warm water.

J. Y., of Mo.—Ocean cables having parallel instead of spiral wires, and arranged as in your sketch, have been proposed several times.

W. C., of Del.—There is no reliable work published on the distillation of turpentine, as practiced at the present day.

F. P., of S. C.—The deep red color of bricks is produced by a small quantity of the red oxyd of iron in the clay. This may be imitated by art, by mixing about one ounce of the powdered peroxyd of iron with the clay in the pug-mill. The cement which is placed on brick-work to imitate stone is composed of clean sand, 90 parts, 5 parts of litharge and 5 parts of plaster of Paris, moistened with boiled linseed oil. The bricks receive two or three coats of oil before this cement is applied, and it requires considerable skill to lay it on. It soon becomes hard, and resembles brown freestone.

E. J., of N. J.—Attempts have been made to set tile-drains in one continuous operation of ditching and pipe-laying. A plow called a mole, having a sharp conical point was employed to cut the drain, and to it were attached the tiles strung upon a rope or chain drawn behind and laid down in the drain. This machine was defective in principle, because the tiles were dragged the whole length of the furrow. If you can invent a machine to set tile drains economically you will do well with it. Chains can be made of cast-steel as well as of cast-iron, and for some purposes they may be superior, because they could be made lighter and be equally as strong.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Sept. 10, 1859—

J. B., of N. Y., \$30; C. & L., of N. C., \$25; J. K. D., of N. Y., \$30; G. K., of Pa., \$15; W. G., of N. Y., \$15; J. A., of La., \$25; W. P. C. of Ind., \$10; H. S., of Conn., \$25; R. T. C., of Ill., \$25; T. S. B. of N. Y., \$10; W. B., of Ohio, \$25; T. S. S., of Conn., \$57; J. B. B., of Kansas, \$30; L. G. K., of N. Y., \$25; M. P., of N. Y., \$25; R. E., of N. Y., \$30; P. & B., of Ill., \$32; D. W. G. H., of Maine, \$25; E. C., of Vt., \$65; J. M. C., of N. Y., \$75; G. H. P., of Ga., \$30; L. J., of Mich., \$30; J. B. F. P., of Me., \$25; G. B. S., of N. C., \$35; L. A. B., of N. Y., \$30; F. S., of Mich., \$25; J. McN., of N. Y., \$30; J. C., of Mass., \$30; A. C. K., of N. Y., \$25; C. M., of N. C., \$30; L. H. F., of Pa., \$30; W. B. Sr., of N. Y., \$30; A. M., of N. Y., \$30; A. P. A., of Ala., \$30; O. B. B., of Ill., \$30; J. W. C., of N. Y., \$300; W. N. R., of N. Y., \$30; O. C. McC., of Ohio, \$25; C. H., of L. I., \$30; B. H. C., of Wis., \$25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Sept. 10, 1859:—

L. G. K. of N. Y.; L. L. of N. Y.; J. A. of La.; D. W. G. H. of Maine; J. G. of N. Y.; A. C. K. of N. Y.; J. C. A. of Ohio; J. B. F. P. of Mo.; H. S. of Conn.; O. C. McC. of Ohio; G. B. S. of N. C. (two cases); M. P. of N. Y.; J. B. of N. Y.; B. C. LL. of Wis.; R. T. C. of Ill.; F. S. of Mich.; J. W. C. of N. Y.

Literary Notices.

We have received from the re-publishers, Messrs. Leonard Scott & Co., of this city, the July number of the "London Quarterly Review," and the August number of the "North British." Macaulay says:—"Her noble literature is the greatest of the many glories of England." And certainly at the head of this literature stand her quarterly reviews—the "London," the organ of the church and high Tories; the "Westminster," the organ of the radical democrats; the "Edinburgh," of the moderate whigs; and the "North British," of the Free Church of Scotland. We always welcome the "London Quarterly" for its masterly articles on science. The July number has an article on geology which furnishes, in the compass of half-an-hour's reading, just those general facts in regard to this sublime and interesting subject which every man wants to know.

S. B. MEYER'S CELEBRATED LEATHER VARNISH.—Any person sending me \$1 will receive my recipe for making the best leather varnish now in use. It makes the leather soft and durable, and puts the prettiest kind of gloss on it. Address S. B. MEYER, Lamar, Clinton county, Pa.

JONES & LENNIG, NOS. 313 AND 315 NEW Market-street, above Vine, Philadelphia, Pa., Manufacturers of Wet and Dry Patent Gas Meters; Station, Experimental, Show and Customer Meters; Meter Provers, Burner Provers, Mercury Cups, Governors, Center Seals, &c. Pressure Registers, Indicators and Gages, &c. &c. Messrs. Jones & Lennig beg leave to call the attention of Gas Companies, Gas Engineers, Gas-work Builders, and of consumers generally in the United States, Canada, South America, Cuba and California, to the superior instruments they are now offering. Meters tested by a sworn inspector. Orders promptly attended to.

MODEL AND PATTERN MAKING.—BY J. MURRAY, No. 220 Center-street, near Grand, New York. Patterns for brass, malleable and cast-iron.

HOSIERY 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.

OWING TO A PRESSURE OF BUSINESS, THE subscriber offers for sale, for \$2,000, half cash, the entire right of his Self-acting Draft Regulator. Has been well treated and received two premiums. It produces a uniform draft, saves 25 per cent of the fuel in windy weather, prevents smoke blowing down the chimney and prevents the chimney taking fire. Address J. A. ROYCE, Lee, Mass.

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.

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 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. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris, and 26 Rue des Eperonniers, Brussels.

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.

The annexed letters from the last two commissioners of Patents we commend to the perusal of all persons interested in obtaining Patents:—

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.—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.

FOR SALE—THREE VALUABLE PATENTS; one for upsetting tire, one for turning the band portion of carriage hubs to size of band, and one for cutting out carriage hubs to the taper of box.

WANTED—\$150 TO PATENT AN OMNIBUS register, in return for an equal interest in same. It will be of great commercial value, as it overcomes every difficulty heretofore in the way.

GET THE BEST.—WEBSTER'S UNABRIDGED DICTIONARY.—New pictorial edition. 1,500 pictorial illustrations. 9,000 to 10,000 new words in the vocabulary.

CONJURING.—THE WHOLE ART OF CONJURING made easy, with full instructions for performing. 150 wonderful feats of magic, including the conjuring of ventriloquism and legions of devils. Profusely illustrated. Price 15 cents.

ONE OF WOODRUFF & BEACH'S SUPERIOR twelve-horse-power steam-engines for sale or exchange. The above engine is in the best order, with locomotive boiler, and all accessories for both boiler and engine.

WANTED.—AN AMERICAN ENGINEER who wants a situation to take charge of or run any size engine, who has been for the last six years at one place.

MACHINERY.—S. C. HILLS, NO. 12 PLATT-street, New York, dealer in Steam-engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps, Mortising, Tenoning and Sash Machines, Woodworth's and Daniel's Planers, Dick's Planes, Presses and Shears; Cob and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belting, Oil, &c.

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.

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.

15 HORSE HORIZONTAL STEAM-ENGINE, 10-inch bore, 24-inch stroke, with 7-foot fly-wheel, governor, pump, &c., complete. A first-class engine at a bargain.

KNITTING MACHINES, CIRCULAR AND straight, and machine-knitting needles, of all sizes and gauges, on hand and made to order.

FOR SALE—A 10-INCH WATER-WHEEL Shaft, 14 feet 9 inches long, with Flanges and Pillar Blocks, all in good order; will be sold very low.

IMPROVED SPRING BALANCES, CAPABLE of sustaining from 8 ounces to 1,000 pounds each, suitable for Post-offices, Scales, Butchers, Grocers, Fruit and Flour Dealers; also much used by Leather Inspectors.

THE AUBIN VILLAGE GAS WORKS WERE erected last year by the 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.

CALIFORNIA AGENCY FOR PATENTS.—WETHERED & TIFFANY, San Francisco, will attend to the sale of patent rights for the Pacific Coast.

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.

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.

IRON PLANERS, ENGINE LATHES, AND OTHER Machinists' Tools, of superior quality, on hand and finishing, and for sale low; also Harrison's Grain Mills.

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.

SCIENTIFIC BOOKS AND PERIODICALS. English, French and American Scientific Books and Periodicals supplied promptly to order by JOHN WILEY, 56 Walker-street, 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 (1850).

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.

LEATHER AND RUBBER-BELTING, ENGINE and Hydraulic Packing, He ter Pipe-rings, Printers' Blankets, Roller Leather and Roller Cloths, Machine Cards, superior Lacing-leather, and all articles usually required for Manufacturers' use.

SAFE AND PROFITABLE BUSINESS.—DANIELS' Patent Granular Fuel is the growth of Swamps and waste-trimmings, limbs of trees, &c., cut into four-inch lengths.

WANTED.—VOL. I., SCIENTIFIC AMERICAN, to complete a set; \$10 will be paid, if complete and bound in good order, or if in numbers, 15 cents each will be paid.

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 color.

JOHN W. QUINCY & CO., IMPORTERS AND Dealers in Metals, &c., No. 98 William-street, New York. Banca Tin, Spelter, Ingot Copper, Lead, Antimony, Rabbit Metal, Mount Hope Cut Nails, Ames' Shovels and Spades, &c.

EIGHT-HORSE PORTABLE STEAM ENGINE cylinder 7 1/2 by 15, governor, balance-wheel, &c., attached to a flue boiler, all new. Price \$800.

GRINDSTONES FOR MACHINISTS AND MANUFACTURERS, of every size and grit, for wet or dry grinding.

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

MESSIEURS LES INVENTEURS.—AVIS IMPORTANT.—Les inventeurs non familiers avec la langue Anglaise, et qui preferent nous communiquer leurs inventions en Francais, peuvent nous adresser dans leur langue natale.

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.

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.

MACHINE BELTING, STEAM PACKING, ENGINE HOSE.—The superiority of these articles, manufactured of vulcanized rubber, is established. Every belt will be warranted superior to other, at one-third less price.

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.

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.

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.

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

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.

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.

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

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.

CROSSETT'S PATENT STAVE CUTTER.—PATENTED July 1, 1844; re-issued March 2, 1858; renewed and extended June 26, 1858.—The above mentioned machine is warranted to cut more and better staves than any other machine in the United States.

CHRONOMETERS, FINE WATCHES, NAUTICAL AND ASTRONOMICAL INSTRUMENTS, &c.—D. EGGERT & SON, No. 239 Pearl-street, New York, offer on favorable terms first-class Marine, Sideral 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.

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.

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.

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.

Zur Beachtung für Erfinder. Erfinder, welche nicht mit der englischen Sprache befannt sind, können ihre Mittheilungen in der deutschen Sprache machen.

Munn & Co., 37 Park Row, N. Y. Auf der Office wird deutsch gesprochen.